

PGP® ULTRA/I-20
PERFORMANCE CHARTS—METRIC

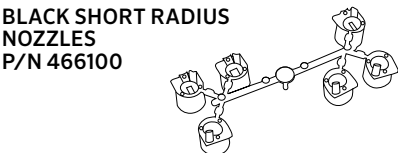


PGP ULTRA / I-20 BLUE STANDARD NOZZLE PERFORMANCE DATA							
Nozzle	Pressure bar	Pressure kPa	Radius m	Flow m³/hr	Flow l/min	Precip mm/hr ■	Precip mm/hr ▲
1.5 Blue	1.7	170	8.8	0.27	4.5	7	8
	2.0	200	9.1	0.29	4.8	7	8
	2.5	250	9.4	0.32	5.4	7	8
	3.0	300	9.8	0.35	5.9	7	9
	3.5	350	9.8	0.38	6.4	8	9
	4.0	400	9.8	0.41	6.8	9	10
	4.5	450	9.4	0.43	7.2	10	11
2.0 Blue	1.7	170	10.1	0.32	5.4	6	7
	2.0	200	10.1	0.35	5.8	7	8
	2.5	250	10.1	0.39	6.5	8	9
	3.0	300	10.4	0.43	7.2	8	9
	3.5	350	10.4	0.47	7.8	9	10
	4.0	400	10.4	0.50	8.3	9	11
	4.5	450	10.4	0.53	8.8	10	11
2.5 Blue	1.7	170	10.1	0.39	6.6	8	9
	2.0	200	10.4	0.43	7.1	8	9
	2.5	250	10.7	0.48	8.0	8	10
	3.0	300	10.7	0.54	8.9	9	11
	3.5	350	10.7	0.58	9.7	10	12
	4.0	400	10.7	0.62	10.4	11	13
	4.5	450	10.7	0.66	11.1	12	13
3.0 Blue	1.7	170	10.7	0.50	8.4	9	10
	2.0	200	10.7	0.54	9.1	10	11
	2.5	250	11.0	0.61	10.2	10	12
	3.0	300	11.6	0.68	11.4	10	12
	3.5	350	11.9	0.74	12.3	10	12
	4.0	400	11.9	0.79	13.2	11	13
	4.5	450	11.9	0.84	14.0	12	14
4.0 Blue	1.7	170	11.3	0.68	11.3	11	12
	2.0	200	11.6	0.73	12.2	11	13
	2.5	250	11.9	0.81	13.6	12	13
	3.0	300	12.2	0.90	15.0	12	14
	3.5	350	12.2	0.97	16.2	13	15
	4.0	400	12.5	1.04	17.3	13	15
	4.5	450	12.5	1.10	18.3	14	16
5.0 Blue	1.7	170	11.3	0.84	14.0	13	15
	2.0	200	11.6	0.91	15.2	14	16
	2.5	250	11.9	1.02	17.1	15	17
	3.0	300	12.8	1.14	19.0	14	16
	3.5	350	12.8	1.24	20.6	15	17
	4.0	400	12.8	1.32	22.1	16	19
	4.5	450	12.8	1.41	23.4	17	20
6.0 Blue	1.7	170	11.6	1.01	16.8	15	17
	2.0	200	11.9	1.09	18.2	15	18
	2.5	250	12.2	1.22	20.4	16	19
	3.0	300	13.1	1.36	22.7	16	18
	3.5	350	13.1	1.47	24.5	17	20
	4.0	400	13.4	1.57	26.2	18	20
	4.5	450	13.4	1.67	27.9	19	21
8.0 Blue	1.7	170	11.3	1.35	22.5	21	25
	2.0	200	11.9	1.46	24.3	21	24
	2.5	250	12.5	1.63	27.2	21	24
	3.0	300	13.4	1.81	30.2	20	23
	3.5	350	13.7	1.95	32.6	21	24
	4.0	400	14.0	2.09	34.8	21	25
	4.5	450	14.0	2.22	36.9	23	26

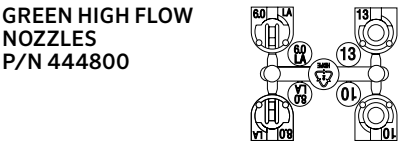
PGP ULTRA / I-20 GREY LOW ANGLE

NOZZLE PERFORMANCE DATA

Nozzle	Pressure	Radius	Flow	Precip mm/hr			
	bar	kPa	m	m ³ /hr l/min	■	▲	
2.0 LA Grey	1.7	170	7.3	0.33	5.6	12	14
	2.0	200	7.6	0.36	6.0	12	14
	2.5	250	7.9	0.40	6.7	13	15
	3.0	300	8.2	0.45	7.4	13	15
	3.5	350	8.5	0.48	8.0	13	15
	4.0	400	8.8	0.52	8.6	13	15
	4.5	450	9.1	0.55	9.1	13	15
2.5 LA Grey	1.7	170	7.9	0.44	7.3	14	16
	2.0	200	8.2	0.47	7.9	14	16
	2.5	250	8.8	0.53	8.8	14	16
	3.0	300	9.4	0.59	9.8	13	15
	3.5	350	10.1	0.64	10.6	13	15
	4.0	400	10.4	0.68	11.3	13	15
	4.5	450	10.7	0.72	12.0	13	15
3.5 LA Grey	1.7	170	8.5	0.58	9.7	16	18
	2.0	200	8.8	0.62	10.3	16	18
	2.5	250	9.1	0.68	11.4	16	19
	3.0	300	10.1	0.75	12.5	15	17
	3.5	350	10.7	0.80	13.3	14	16
	4.0	400	11.0	0.85	14.1	14	16
	4.5	450	11.3	0.89	14.8	14	16
4.0 LA Grey	1.7	170	8.2	0.71	11.8	21	24
	2.0	200	8.8	0.76	12.7	19	23
	2.5	250	9.1	0.84	14.1	20	23
	3.0	300	10.1	0.93	15.5	18	21
	3.5	350	10.7	1.00	16.6	18	20
	4.0	400	11.0	1.06	17.6	18	20
	4.5	450	11.3	1.12	18.6	18	20



PGP ULTRA / I-20 BLACK SHORT RADIUS NOZZLE PERFORMANCE DATA								
Nozzle	Pressure		Radius m	Flow		Precip mm/hr		
	bar	kPa		m³/hr	l/min	■	▲	
.50 SR Black	1.7	170	4.9	0.07	1.2	6	7	
	2.0	200	5.2	0.08	1.3	6	7	
	2.5	250	5.2	0.09	1.5	7	8	
	3.0	300	5.2	0.10	1.7	8	9	
	3.5	350	5.5	0.12	1.9	8	9	
	4.0	400	5.5	0.13	2.1	8	10	
	4.5	450	5.5	0.14	2.3	9	10	
1.0 SR Black	1.7	170	4.9	0.16	2.7	14	16	
	2.0	200	5.2	0.17	2.9	13	15	
	2.5	250	5.2	0.19	3.2	14	17	
	3.0	300	5.2	0.21	3.6	16	18	
	3.5	350	5.5	0.23	3.8	15	18	
	4.0	400	5.5	0.25	4.1	16	19	
	4.5	450	5.5	0.26	4.3	17	20	
2.0 SR Black	1.7	170	4.9	0.28	4.7	24	27	
	2.0	200	5.2	0.31	5.2	23	27	
	2.5	250	5.2	0.36	6.0	27	31	
	3.0	300	5.2	0.41	6.9	31	35	
	3.5	350	5.5	0.45	7.6	30	35	
	4.0	400	5.5	0.49	8.2	33	38	
	4.5	450	5.5	0.53	8.9	35	41	
.75 SR Black	1.7	170	6.7	0.12	2.0	5	6	
	2.0	200	7.0	0.13	2.2	5	6	
	2.5	250	7.0	0.15	2.4	6	7	
	3.0	300	7.3	0.16	2.7	6	7	
	3.5	350	7.6	0.17	2.9	6	7	
	4.0	400	7.6	0.19	3.1	6	7	
	4.5	450	7.6	0.20	3.3	7	8	
1.5 SR Black	1.7	170	6.7	0.23	3.8	10	12	
	2.0	200	7.0	0.25	4.1	10	12	
	2.5	250	7.0	0.28	4.6	11	13	
	3.0	300	7.3	0.31	5.2	12	13	
	3.5	350	7.6	0.34	5.6	12	13	
	4.0	400	7.6	0.36	6.0	12	14	
	4.5	450	7.6	0.39	6.4	13	15	
3.0 SR Black	1.7	170	6.7	0.53	8.9	24	27	
	2.0	200	7.0	0.56	9.3	23	26	
	2.5	250	7.0	0.60	10.0	24	28	
	3.0	300	7.3	0.64	10.7	24	28	
	3.5	350	7.6	0.67	11.2	23	27	
	4.0	400	7.6	0.70	11.7	24	28	
	4.5	450	7.6	0.73	12.1	25	29	



PGP ULTRA / I-20 GREEN HIGH FLOW

NOZZLE PERFORMANCE DATA

Nozzle	Pressure	Radius	Flow	Precip mm/hr			
	bar	kPa	m	m³/hr l/min	■	▲	
10 Dk. Green	1.7	170	10.7	1.48	24.6	26	30
	2.0	200	11.9	1.60	26.7	23	26
	2.5	250	12.5	1.80	30.0	23	27
	3.0	300	12.8	2.01	33.5	25	28
	3.5	350	13.1	2.18	36.3	25	29
	4.0	400	13.7	2.34	39.0	25	29
	4.5	450	14.0	2.49	41.5	25	29
13 Dk. Green	1.7	170	11.0	1.91	31.9	32	37
	2.0	200	12.2	2.08	34.6	28	32
	2.5	250	12.8	2.34	38.9	29	33
	3.0	300	13.1	2.61	43.4	30	35
	3.5	350	13.4	2.83	47.1	31	36
	4.0	400	13.7	3.03	50.5	32	37
	4.5	450	14.0	3.23	53.8	33	38
6.0 LA Dk. Green	1.7	170	9.1	0.86	14.3	21	24
	2.0	200	9.4	0.94	15.6	21	24
	2.5	250	10.1	1.07	17.8	21	24
	3.0	300	10.7	1.20	20.0	21	24
	3.5	350	11.3	1.31	21.9	21	24
	4.0	400	11.6	1.42	23.6	21	24
	4.5	450	11.9	1.52	25.3	21	25
8.0 LA Dk. Green	1.7	170	10.1	1.17	19.5	23	27
	2.0	200	10.7	1.28	21.3	22	26
	2.5	250	11.3	1.44	24.0	23	26
	3.0	300	11.6	1.61	26.9	24	28
	3.5	350	11.9	1.76	29.3	25	29
	4.0	400	12.5	1.89	31.5	24	28
	4.5	450	12.5	2.01	33.6	26	30



PGP ULTRA / I-20 MPR-25 RED NOZZLE PERFORMANCE DATA							
Nozzle	Pressure		Radius m	Flow		Precip mm/hr	
	bar	kPa		m³/hr	l/min	■	▲
90° 	1.7	170	7.0	0.17	3.0	13.7	15.8
	2.4	240	7.3	0.20	3.6	14.9	17.3
	3.1	310	7.6	0.23	3.6	15.6	18.1
	3.8	380	7.6	0.25	4.2	17.4	20.1
	4.5	450	7.6	0.27	4.8	18.9	21.9
120° 	1.7	170	7.0	0.23	3.6	13.9	16.0
	2.4	240	7.3	0.27	4.8	15.4	17.8
	3.1	310	7.6	0.31	5.4	16.2	18.7
	3.8	380	7.6	0.35	6.0	18.0	20.7
	4.5	450	7.6	0.38	6.6	19.6	22.6
180° 	1.7	170	7.0	0.33	5.4	13.3	15.4
	2.4	240	7.3	0.39	6.6	14.7	17.0
	3.1	310	7.6	0.45	7.2	15.5	17.9
	3.8	380	7.6	0.50	8.4	17.3	20.0
	4.5	450	7.6	0.55	9.0	18.9	21.8
360° 	1.7	170	7.0	0.63	10.8	12.8	14.8
	2.4	240	7.3	0.76	12.6	14.2	16.4
	3.1	310	7.6	0.87	14.4	14.9	17.3
	3.8	380	7.6	0.97	16.2	16.6	19.2
	4.5	450	7.6	1.05	17.4	18.1	20.9
Red							

PGP ULTRA / I-20 MPR-30 LT. GREEN NOZZLE PERFORMANCE DATA							
Nozzle	Pressure		Radius	Flow		Precip mm/hr	
	bar	kPa	m	m³/hr	l/min	■	▲
90° 	1.7	170	8.8	0.23	3.6	12.0	13.8
	2.4	240	9.1	0.28	4.8	13.4	15.4
	3.1	310	9.1	0.32	5.4	15.2	17.6
	3.8	380	9.1	0.35	6.0	17.0	19.6
	4.5	450	9.1	0.38	6.6	18.4	21.2
120° 	1.7	170	8.8	0.30	4.8	11.7	13.5
	2.4	240	9.1	0.37	6.0	13.2	15.2
	3.1	310	9.1	0.42	7.2	15.1	17.4
	3.8	380	9.1	0.47	7.8	16.8	19.4
	4.5	450	9.1	0.51	8.4	18.3	21.1
180° 	1.7	170	8.8	0.49	8.4	12.5	14.4
	2.4	240	9.1	0.59	9.6	14.1	16.2
	3.1	310	9.1	0.67	11.4	16.1	18.6
	3.8	380	9.1	0.75	12.6	17.9	20.7
	4.5	450	9.1	0.82	13.8	19.6	22.6
360° 	1.7	170	8.8	0.96	16.2	12.3	14.2
	2.4	240	9.1	1.15	19.2	13.8	15.9
	3.1	310	9.1	1.31	21.6	15.7	18.1
	3.8	380	9.1	1.45	24.0	17.4	20.0
	4.5	450	9.1	1.57	26.4	18.8	21.7
Lt. Green							

PGP ULTRA / I-20 MPR-35 BEIGE NOZZLE

PERFORMANCE DATA

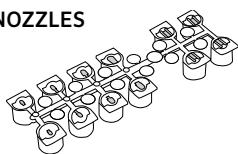
Nozzle	Pressure	Radius	Flow	Precip mm/hr			
	bar	kPa	m	m³/hr	l/min	■	▲
90° 	1.7	170	9.8	0.32	5.4	13.4	15.4
	2.4	240	10.4	0.38	6.6	14.1	16.3
	3.1	310	10.7	0.44	7.2	15.3	17.7
	3.8	380	10.7	0.48	7.8	17.0	19.6
	4.5	450	10.7	0.52	9.0	18.4	21.3
120° 	1.7	170	9.8	0.40	6.6	12.7	14.6
	2.4	240	10.4	0.49	8.4	13.6	15.8
	3.1	310	10.7	0.56	9.6	14.7	17.0
	3.8	380	10.7	0.62	10.2	16.4	18.9
	4.5	450	10.7	0.68	11.4	17.9	20.7
180° 	1.7	170	9.8	0.62	10.2	13.1	15.2
	2.4	240	10.4	0.76	12.6	14.1	16.3
	3.1	310	10.7	0.87	14.4	15.2	17.6
	3.8	380	10.7	0.96	16.2	16.9	19.5
	4.5	450	10.7	1.05	17.4	18.4	21.3
360° 	1.7	170	9.8	1.22	20.4	12.8	14.8
	2.4	240	10.4	1.50	25.2	14.0	16.2
	3.1	310	10.7	1.72	28.8	15.1	17.5
	3.8	380	10.7	1.91	31.8	16.8	19.4
	4.5	450	10.7	2.09	34.8	18.3	21.2

PGP® ULTRA/I-20

PERFORMANCE CHARTS

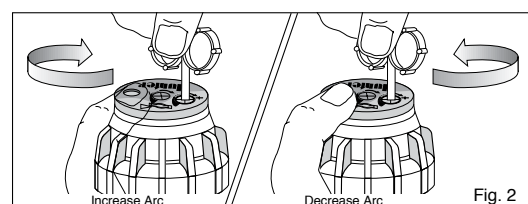
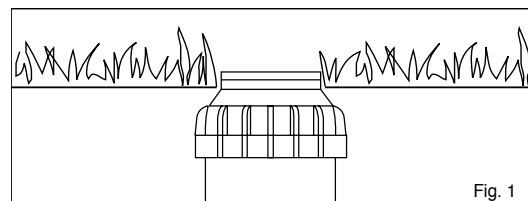
BLUE/GREY NOZZLES

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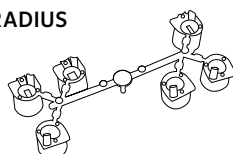
PGP® ULTRA / I-20 BLUE STANDARD NOZZLE PERFORMANCE DATA						
Nozzle	Pressure PSI	Radius ft.	Flow GPM	Precip in/hr		
				■	▲	
1.5 Blue	25	29	1.2	0.27	0.32	
	35	31	1.4	0.28	0.32	
	45	31	1.5	0.30	0.35	
	55	32	1.8	0.34	0.39	
	65	32	1.9	0.36	0.41	
2.0 Blue	25	33	1.4	0.25	0.29	
	35	33	1.7	0.30	0.35	
	45	34	2.0	0.33	0.38	
	55	34	2.1	0.35	0.40	
	65	32	2.3	0.43	0.50	
2.5 Blue	25	33	1.7	0.30	0.35	
	35	35	2.1	0.33	0.38	
	45	35	2.5	0.39	0.45	
	55	35	2.6	0.41	0.47	
	65	35	2.9	0.46	0.53	
3.0 Blue	25	35	2.2	0.35	0.40	
	35	36	2.7	0.40	0.46	
	45	38	3.0	0.40	0.46	
	55	39	3.4	0.43	0.50	
	65	39	3.7	0.47	0.54	
4.0 Blue	25	37	3.0	0.42	0.49	
	35	39	3.5	0.44	0.51	
	45	40	4.0	0.48	0.56	
	55	41	4.5	0.52	0.60	
	65	41	4.8	0.55	0.63	
5.0 Blue	25	37	3.7	0.52	0.60	
	35	39	4.5	0.57	0.66	
	45	42	5.0	0.55	0.63	
	55	42	5.7	0.62	0.72	
	65	42	6.2	0.68	0.78	
6.0 Blue	25	38	4.3	0.57	0.66	
	35	40	5.6	0.67	0.78	
	45	43	6.0	0.62	0.72	
	55	44	6.7	0.67	0.77	
	65	44	7.3	0.73	0.84	
8.0 Blue	25	37	6.0	0.84	0.97	
	35	41	7.0	0.80	0.93	
	45	44	8.0	0.80	0.92	
	55	46	9.0	0.82	0.95	
	65	46	9.8	0.89	1.03	

PGP ULTRA / I-20 GRAY LOW ANGLE NOZZLE PERFORMANCE DATA						
Nozzle	Pressure PSI	Radius ft.	Flow GPM	Precip in/hr		
				■	▲	
2.0 LA Gray	30	25	1.6	0.49	0.57	
	40	27	1.9	0.50	0.58	
	50	28	2.1	0.52	0.60	
	60	30	2.3	0.49	0.57	
2.5 LA Gray	30	27	2.1	0.55	0.64	
	40	30	2.5	0.53	0.62	
	50	33	2.8	0.49	0.57	
	60	35	3.0	0.47	0.54	
3.5 LA Gray	30	29	2.8	0.64	0.74	
	40	32	3.1	0.58	0.67	
	50	35	3.5	0.55	0.64	
	60	37	3.8	0.53	0.62	
4.5 LA Gray	30	29	3.4	0.78	0.90	
	40	32	3.9	0.73	0.85	
	50	35	4.4	0.69	0.80	
	60	37	4.7	0.66	0.76	



BLACK SHORT RADIUS NOZZLES

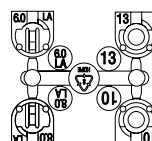
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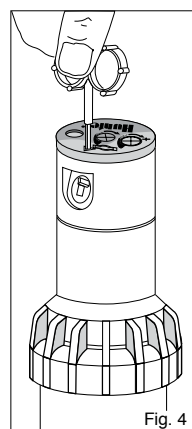
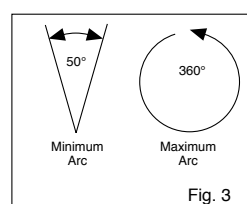
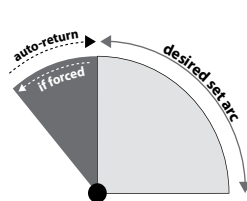
PGP ULTRA / I-20 BLACK SHORT RADIUS NOZZLE PERFORMANCE DATA (18'/25')						
Nozzle	Pressure PSI	Radius ft.	Flow GPM	Precip in/hr		
				■	▲	
.50 SR Black	30	17	0.36	0.24	0.28	
	40	17	0.43	0.29	0.33	
	50	18	0.50	0.30	0.34	
	60	19	0.57	0.30	0.35	
1.0 SR Black	30	17	0.78	0.52	0.60	
	40	17	0.90	0.60	0.69	
	50	18	1.00	0.59	0.69	
	60	19	1.10	0.59	0.68	
2.0 SR Black	30	17	1.40	0.93	1.08	
	40	17	1.70	1.13	1.31	
	50	18	2.00	1.19	1.37	
	60	19	2.20	1.17	1.35	
.75 SR Black	30	23	0.58	0.21	0.24	
	40	24	0.68	0.23	0.26	
	50	25	0.75	0.23	0.27	
	60	26	0.83	0.24	0.27	
1.5 SR Black	30	23	1.10	0.40	0.46	
	40	24	1.30	0.43	0.50	
	50	25	1.50	0.46	0.53	
	60	26	1.60	0.46	0.53	
3.0 SR Black	30	23	2.50	0.91	1.05	
	40	24	2.70	0.90	1.04	
	50	25	3.00	0.92	1.07	
	60	26	3.10	0.88	1.02	

GREEN HIGH FLOW NOZZLES

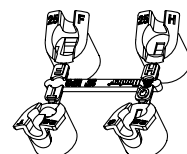
P/N 44800



PGP ULTRA / I-20 GREEN HIGH FLOW NOZZLE PERFORMANCE DATA						
Nozzle	Pressure PSI	Radius ft.	Flow GPM	Precip in/hr		
				■	▲	
10 Dk. Green	40	42	8.4	0.92	1.06	
	50	43	9.5	0.99	1.14	
	60	45	10.5	1.00	1.15	
	70	47	11.4	0.99	1.15	
13 Dk. Green	40	43	10.9	1.13	1.31	
	50	44	12.3	1.22	1.41	
	60	45	13.6	1.29	1.49	
	70	47	14.8	1.29	1.49	
6.0 LA Dk. Green	30	31	4.2	0.84	0.97	
	40	35	5.0	0.79	0.91	
	50	37	5.8	0.82	0.94	
	60	39	6.3	0.80	0.92	
8.0 LA Dk. Green	40	37	6.7	0.94	1.09	
	50	39	7.7	0.97	1.13	
	60	41	8.5	0.97	1.12	
	70	41	9.2	1.05	1.22	



MPR MATCHED PRECIPITATION RATE NOZZLES



PGP® ULTRA / I-20 MPR-25 RED NOZZLE PERFORMANCE DATA						
Nozzle	Pressure PSI	Radius ft.	Flow GPM	Precip in/hr		
				■	▲	
90° Red	25	23	0.74	0.54	0.62	
	35	24	0.88	0.59	0.68	
	45	25	1.00	0.62	0.71	
	55	25	1.11	0.68	0.79	
	65	25	1.21	0.75	0.86	
120° Red	25	23	1.00	0.55	0.63	
	35	24	1.21	0.61	0.70	
	45	25	1.38	0.64	0.74	
	55	25	1.53	0.71	0.82	
	65	25	1.67	0.77	0.89	
180° Red	25	23	1.44	0.52	0.61	
	35	24	1.73	0.58	0.67	
	45	25	1.98	0.61	0.70	
	55	25	2.21	0.68	0.79	
	65	25	2.41	0.74	0.86	
360° Red	25	23	2.78	0.51	0.58	
	35	24	3.34	0.56	0.64	
	45	25	3.82	0.59	0.68	
	55	25	4.25	0.65	0.76	
	65	25	4.63	0.71	0.82	

PGP ULTRA / I-20 MPR-30 LT. GREEN NOZZLE PERFORMANCE DATA						
Nozzle	Pressure PSI	Radius ft.	Flow GPM	Precip in/hr		
				■	▲	
90° Lt. Green	25	29	1.03	0.47	0.54	
	35	30	1.23	0.53	0.61	
	45	30	1.40	0.60	0.69	
	55	30	1.56	0.67	0.77	
	65	30	1.69	0.72	0.83	
120° Lt. Green	25	29	1.34	0.46	0.53	
	35	30	1.62	0.52	0.60	
	45	30	1.85	0.59	0.69	
	55	30	2.06	0.66	0.76	
	65	30	2.24	0.72	0.83	
180° Lt. Green	25	29	2.15	0.49	0.57	
	35	30	2.59	0.55	0.64	
	45	30	2.96	0.63	0.73	
	55	30	3.30	0.71	0.82	
	65	30	3.60	0.77	0.89	
360° Lt. Green	25	29	4.24	0.49	0.56	
	35	30	5.08	0.54	0.63	
	45	30	5.78	0.62	0.71	
	55	30	6.39	0.68	0.79	
	65	30	6.92	0.74	0.85	

PGP ULTRA / I-20 MPR-35 BEIGE NOZZLE PERFORMANCE DATA					
Nozzle	Pressure PSI	Radius ft.	Flow GPM	Precip in/hr	
				■	▲
90° 	25	32	1.40	0.53	0.61
	35	34	1.67	0.56	0.64
	45	35	1.92	0.60	0.70
	55	35	2.13	0.67	0.77
	Beige	65	35	2.31	0.73
120° 	25	32	1.77	0.50	0.58
	35	34	2.15	0.54	0.62
	45	35	2.46	0.58	0.67
	55	35	2.74	0.65	0.75
	Beige	65	35	2.99	0.70
180° 	25	32	2.75	0.52	0.60
	35	34	3.33	0.55	0.64
	45	35	3.81	0.60	0.69
	55	35	4.23	0.66	0.77
	Beige	65	35	4.62	0.73
360° 	25	32	5.36	0.50	0.58
	35	34	6.62	0.55	0.64
	45	35	7.58	0.60	0.69
	55	35	8.43	0.66	0.76
	Beige	65	35	9.18	0.72