

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P622768

Luminaire Tested: **PRV-M-PA6C-8540-U-T3-HSS**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622768
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-11)
Test Lab: INNOVATION CENTER
Issue Date: 9/29/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-M-PA6C-8540-U-T3-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 85 CRI, 4000K LIGHT ENGINES AND TYPE III OPTICS WITH HOUSE SIDE
SHIELD, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35140.3 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 457.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



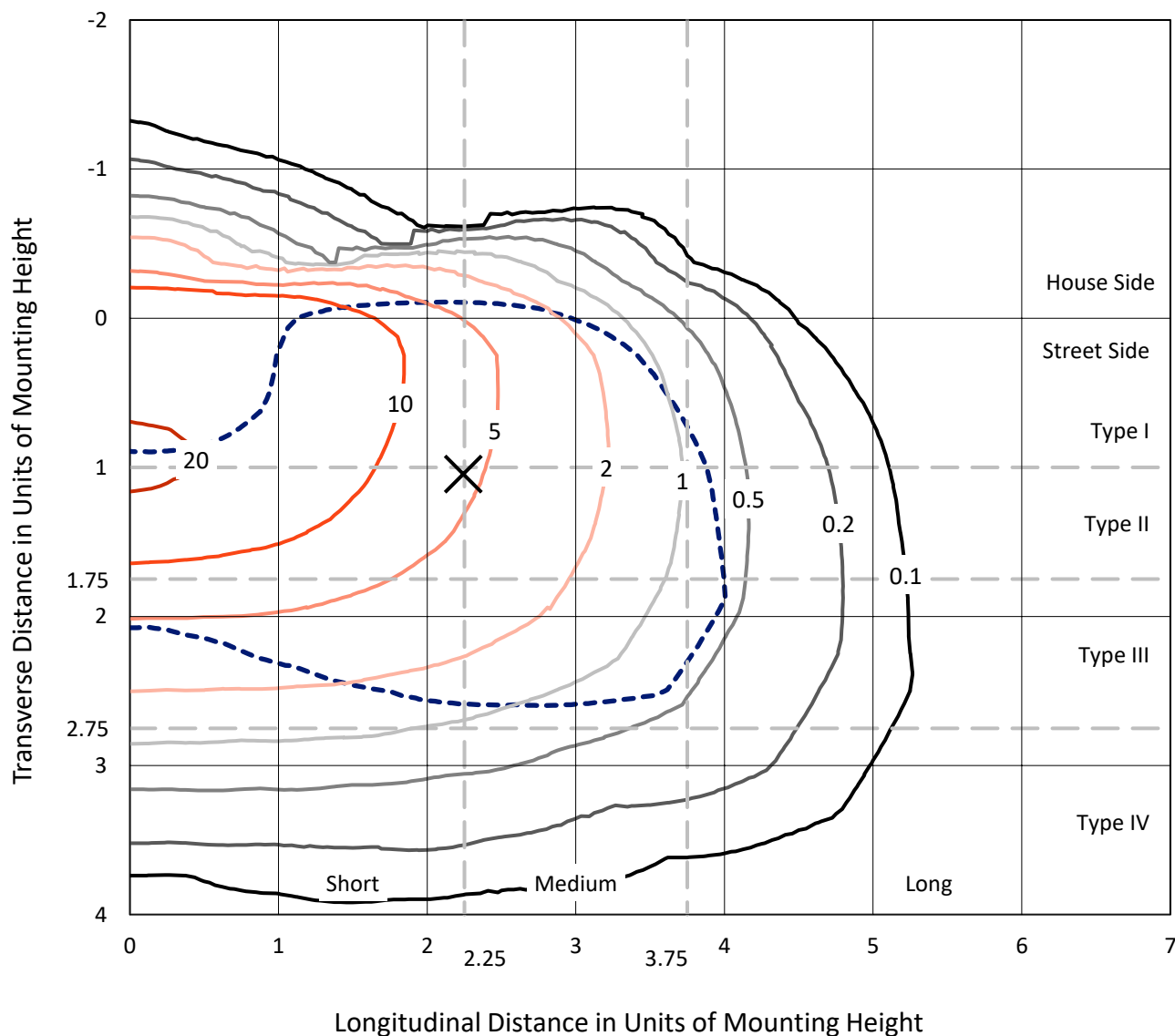
REPORT NUMBER: P622768

CATALOG NUMBER: PRV-M-PA6C-8540-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

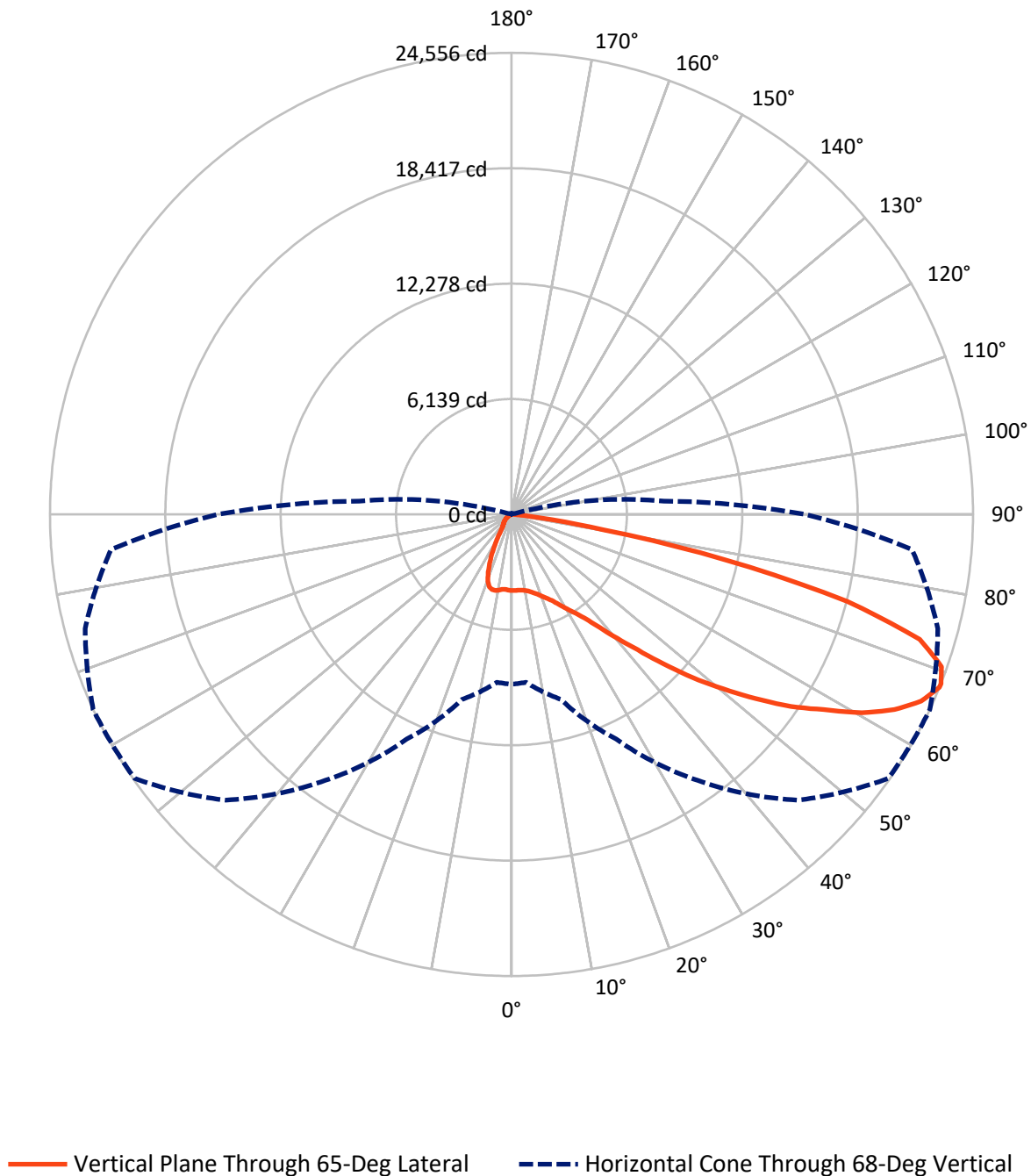


Based on 15 foot mounting height. Maximum calculated value = 22.7 fc
 Type III - Short - N/A

REPORT NUMBER: P622768

CATALOG NUMBER: PRV-M-PA6C-8540-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P622768

CATALOG NUMBER: PRV-M-PA6C-8540-U-T3-HSS

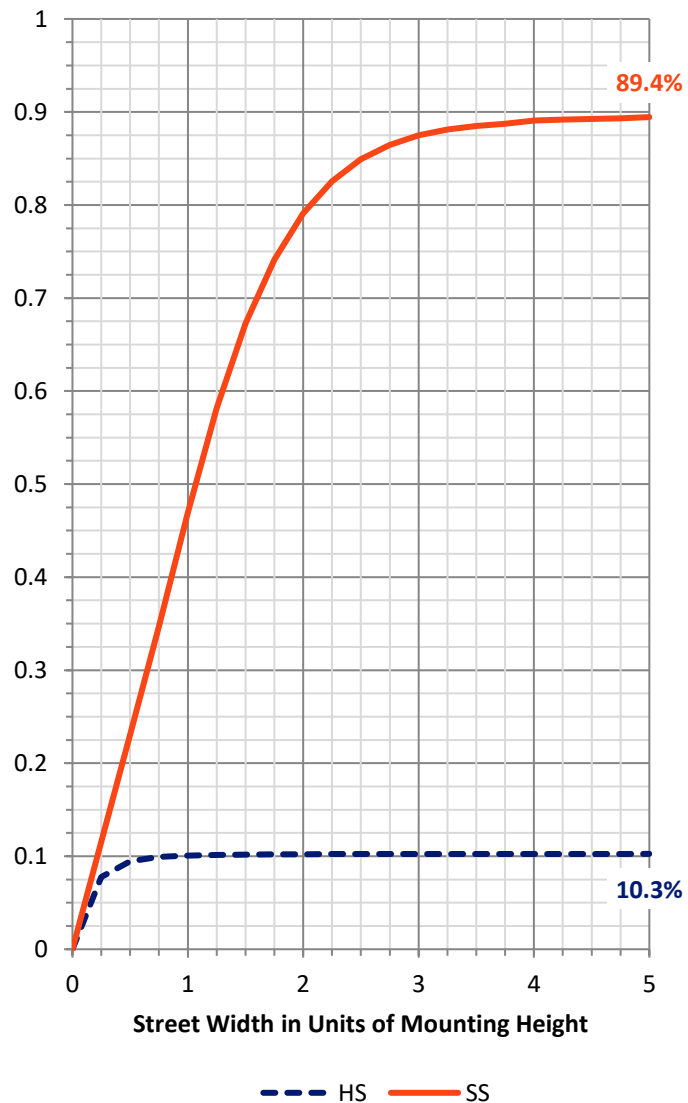
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3635.7	0.0	3635.7
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	31504.6	0.0	31504.6
	% Fixture	89.7	0.0	89.7
Total	Lumens	35140.3	0.0	35140.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.2	1.1
10°-20°	992.0	2.8
20°-30°	1570.2	4.5
30°-40°	2741.4	7.8
40°-50°	5318.8	15.1
50°-60°	8620.0	24.5
60°-70°	10019.6	28.5
70°-80°	5202.0	14.8
80°-90°	298.9	0.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	35140.3	100.0
0°-180°	35140.3	100.0

Coefficient of Utilization



REPORT NUMBER: P622768

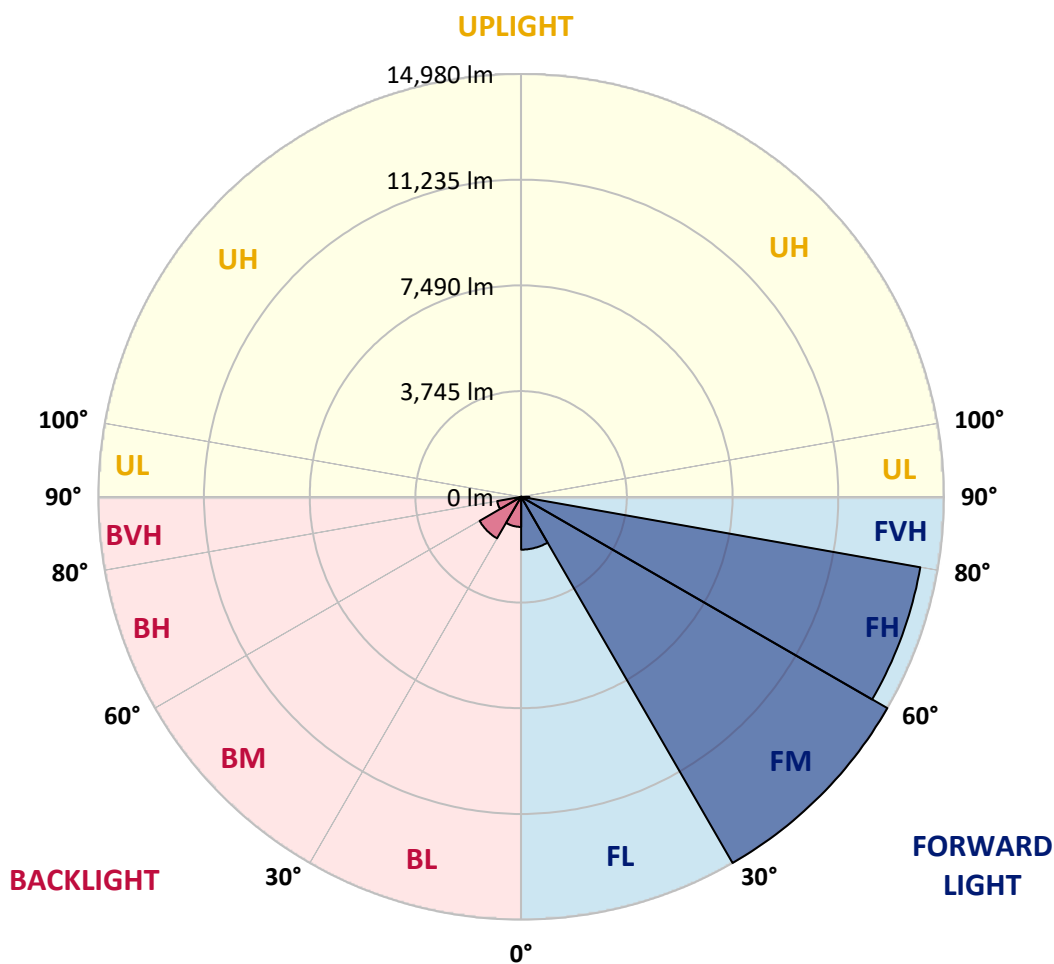
CATALOG NUMBER: PRV-M-PA6C-8540-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1872.3	5.3			
FM	(30°-60°)	14979.6	42.6			
FH	(60°-80°)	14360.1	40.9			G5
FVH	(80°-90°)	292.5	0.8			G3/500
BL	(0°-30°)	1067.1	3.0	B3/2500		
BM	(30°-60°)	1700.7	4.8	B2/2500		
BH	(60°-80°)	861.5	2.5	B2/1000		G2/1000
BVH	(80°-90°)	6.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short



REPORT NUMBER: P622768

CATALOG NUMBER: PRV-M-PA6C-8540-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4050.1	4050.1	4050.1	4050.1	4050.1	4050.1	4050.1	4050.1	4050.1	4050.1	4050.1
2.5°	4099.0	4064.1	4066.4	4062.9	4050.1	4059.4	4053.6	4051.2	4041.9	4038.4	4037.2
5°	4029.1	3996.5	4006.9	4016.2	4016.2	4039.6	4044.3	4046.5	4036.1	4030.3	4023.3
7.5°	3919.5	3892.8	3910.2	3942.9	3966.2	4018.6	4046.5	4067.5	4065.2	4066.4	4058.2
10°	3828.7	3803.0	3836.9	3885.8	3933.6	4010.4	4065.2	4117.6	4147.9	4168.9	4166.6
12.5°	3798.4	3776.3	3807.7	3866.0	3927.8	4017.4	4100.2	4195.7	4268.0	4309.9	4304.1
15°	3803.0	3779.8	3811.2	3874.1	3941.7	4046.5	4167.8	4315.7	4422.9	4461.4	4468.3
17.5°	3840.4	3812.3	3836.9	3895.1	3975.5	4109.5	4279.6	4464.9	4600.0	4651.3	4650.2
20°	3890.4	3859.0	3881.1	3933.6	4027.9	4207.4	4421.8	4645.5	4803.9	4855.2	4848.2
22.5°	3965.0	3930.0	3946.4	3997.6	4118.8	4346.0	4589.6	4848.2	5022.9	5073.1	5052.1
25°	4168.9	4114.1	4081.5	4089.7	4235.3	4517.3	4820.2	5094.0	5277.0	5295.6	5263.0
27.5°	4689.7	4650.2	4485.8	4326.2	4377.4	4702.5	5116.2	5437.8	5603.2	5574.1	5529.8
30°	5762.9	5612.5	5353.8	4940.3	4696.7	4900.6	5401.7	5839.8	5990.0	5922.5	5837.4
32.5°	7044.5	6867.4	6487.5	5888.7	5344.5	5237.3	5743.1	6266.2	6441.0	6310.4	6224.2
35°	8307.6	8240.0	7845.0	7116.8	6320.9	5845.6	6203.2	6819.6	7063.1	6945.4	6855.8
37.5°	9744.2	9585.7	9249.0	8406.6	7508.3	6726.4	6833.6	7639.9	7976.7	7806.5	7665.6
40°	11186.6	11013.1	10675.1	9736.0	8872.6	7966.2	7744.7	8661.8	9123.1	8905.3	8669.9
42.5°	12611.6	12591.8	12160.7	11295.0	10313.9	9506.5	9046.2	9845.5	10421.1	10173.0	9780.3
45°	14451.4	14268.5	13724.3	12947.1	12114.1	11249.5	10670.5	11326.4	12017.4	11500.1	10874.4
47.5°	15583.9	15479.0	15042.1	14556.3	14073.9	13262.9	12474.1	12960.0	13547.2	12868.0	11964.9
50°	16548.6	16424.0	16114.1	15946.3	15923.0	15453.4	14416.4	14587.7	15084.0	14295.2	13012.4
52.5°	17147.5	17031.0	16831.8	17069.5	17624.1	17741.8	16313.3	16274.8	16764.2	15719.0	14007.5
55°	17161.6	16894.7	17052.0	17741.8	19023.5	19523.3	18265.0	18029.6	18210.2	17232.6	14938.4
57.5°	16562.6	16468.3	16933.2	18042.4	19929.9	20845.7	20080.3	19581.6	19720.2	18708.8	15747.1
60°	15338.0	15350.9	16372.7	17935.2	20475.2	21899.0	21768.6	21424.8	21233.7	20084.9	16373.9
62.5°	13618.3	13705.7	15015.4	17286.2	20359.9	22446.7	23237.8	22868.5	22405.9	21233.7	16725.7
65°	11698.1	11662.0	13069.5	15913.6	19320.5	22452.4	24224.7	23957.8	23289.1	21837.3	16625.6
67.5°	9503.0	9427.2	10705.4	13718.5	17690.5	21723.1	24484.5	24545.1	23529.1	21578.6	15875.2
68°	9031.1	8963.5	10189.3	13180.2	17272.2	21495.9	24476.3	24555.6	23481.3	21384.0	15624.7
70°	7060.9	6992.1	7992.9	10672.8	15161.0	20125.7	24090.7	24272.5	22861.5	20066.3	14193.9
72.5°	3963.9	4088.5	4986.8	7228.6	11310.1	17258.3	22522.4	22704.2	20609.2	16097.8	10681.0
75°	1275.8	1261.9	2030.9	3481.5	6452.6	11676.0	18449.0	18459.5	15477.9	9750.0	5901.5
77.5°	671.1	677.0	817.9	1416.8	2620.5	5134.8	11296.2	11615.4	8016.3	3700.5	2015.7
80°	418.3	425.2	506.8	816.7	1427.3	1746.6	4937.9	4951.9	2315.2	841.3	481.2
82.5°	282.0	286.7	354.2	530.2	949.6	714.3	1505.4	1489.0	656.0	265.7	160.8
85°	134.0	136.3	228.4	363.5	464.9	296.0	434.6	460.2	325.1	125.8	68.7
87.5°	28.0	31.5	115.3	158.5	139.8	58.3	122.3	97.9	132.8	51.3	31.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P622768

CATALOG NUMBER: PRV-M-PA6C-8540-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4050.1	4050.1	4050.1	4050.1	4050.1	4050.1	4050.1	4050.1	4050.1	4050.1
2.5°	4041.9	4045.4	4035.0	4016.2	4014.0	4009.3	4017.4	4015.1	4017.4	3990.6
5°	4025.6	4020.9	4001.1	3979.0	3974.4	3966.2	3969.7	3960.3	3961.5	3926.6
7.5°	4060.6	4046.5	4011.6	3966.2	3910.2	3840.4	3787.9	3732.0	3727.3	3685.3
10°	4170.1	4147.9	4085.0	3946.4	3766.9	3523.4	3298.5	3091.1	3036.4	2954.8
12.5°	4302.9	4270.2	4133.9	3848.5	3410.4	2904.7	2460.8	2233.6	2135.7	2089.1
15°	4459.0	4395.0	4124.6	3554.9	2759.1	2089.1	1682.5	1441.3	1384.2	1344.6
17.5°	4641.9	4513.8	4029.1	2994.4	2076.3	1458.8	1186.1	1116.2	1108.0	1106.9
20°	4830.7	4605.8	3762.3	2386.3	1480.9	1116.2	1062.6	1038.2	1027.7	1024.2
22.5°	5018.3	4657.1	3297.4	1808.3	1115.1	1031.1	992.7	957.8	941.5	928.6
25°	5223.4	4650.2	2750.9	1307.3	1014.8	963.6	908.8	859.9	836.6	820.3
27.5°	5469.3	4535.9	2189.3	1033.5	942.6	878.5	808.6	748.0	714.3	706.1
30°	5753.5	4266.8	1651.0	914.6	850.6	783.0	693.3	615.2	581.4	574.4
32.5°	6107.7	3890.4	1168.6	814.5	743.4	669.9	568.6	485.9	450.9	435.7
35°	6602.9	3451.2	892.5	720.0	636.2	546.5	441.6	378.7	348.4	342.6
37.5°	7204.1	2995.6	762.0	636.2	540.7	432.3	339.0	294.8	275.0	271.5
40°	7891.5	2534.2	680.4	558.1	450.9	335.6	263.3	228.4	220.2	219.1
42.5°	8565.0	2026.2	617.6	487.0	365.9	259.8	201.5	181.7	179.5	180.6
45°	9123.1	1498.3	555.8	421.8	290.1	200.4	159.7	146.8	150.3	152.6
47.5°	9568.3	1046.3	496.3	354.2	227.2	161.9	131.7	123.5	129.4	131.7
50°	9900.3	778.3	439.3	288.9	182.9	135.1	111.9	104.8	114.2	116.5
52.5°	10111.2	643.2	375.2	231.8	152.6	116.5	94.4	88.6	100.2	103.7
55°	10224.2	556.9	318.1	190.0	131.7	100.2	79.2	75.7	88.6	92.1
57.5°	10203.3	483.5	265.7	159.7	117.7	88.6	66.4	64.0	78.1	82.8
60°	10013.3	414.8	217.9	134.0	104.8	78.1	57.1	54.7	69.9	73.4
62.5°	9676.6	342.6	175.9	114.2	94.4	69.9	48.9	46.6	59.4	63.0
65°	9108.0	265.7	137.5	99.0	85.0	61.8	42.0	36.1	47.8	50.1
67.5°	8329.7	203.9	110.7	85.0	76.9	55.9	34.9	28.0	36.1	38.4
68°	8137.4	193.4	106.0	81.6	74.5	54.7	33.8	26.8	34.9	36.1
70°	7168.1	159.7	89.7	71.1	67.6	48.9	29.1	21.0	26.8	28.0
72.5°	4900.6	127.0	73.4	59.4	55.9	42.0	23.3	15.1	19.8	19.8
75°	1613.8	96.7	57.1	43.1	40.8	31.5	16.3	10.5	12.8	12.8
77.5°	354.2	64.0	37.3	26.8	24.4	19.8	10.5	4.7	7.0	7.0
80°	111.9	32.7	21.0	15.1	14.0	10.5	5.8	1.2	1.2	2.3
82.5°	43.1	16.3	15.1	11.7	9.3	7.0	3.5	0.0	0.0	0.0
85°	22.2	11.7	11.7	9.3	7.0	4.7	2.3	0.0	0.0	0.0
87.5°	12.8	10.5	10.5	8.1	5.8	2.3	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)