

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: P622766

Luminaire Tested: **PRV-M-PA6C-8540-U-T2U-HSS**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622766
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-9)
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-T2U-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 85 CRI, 4000K LIGHT ENGINES AND TYPE II U OPTICS WITH HOUSE SIDE
SHIELD, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33733.2 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

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

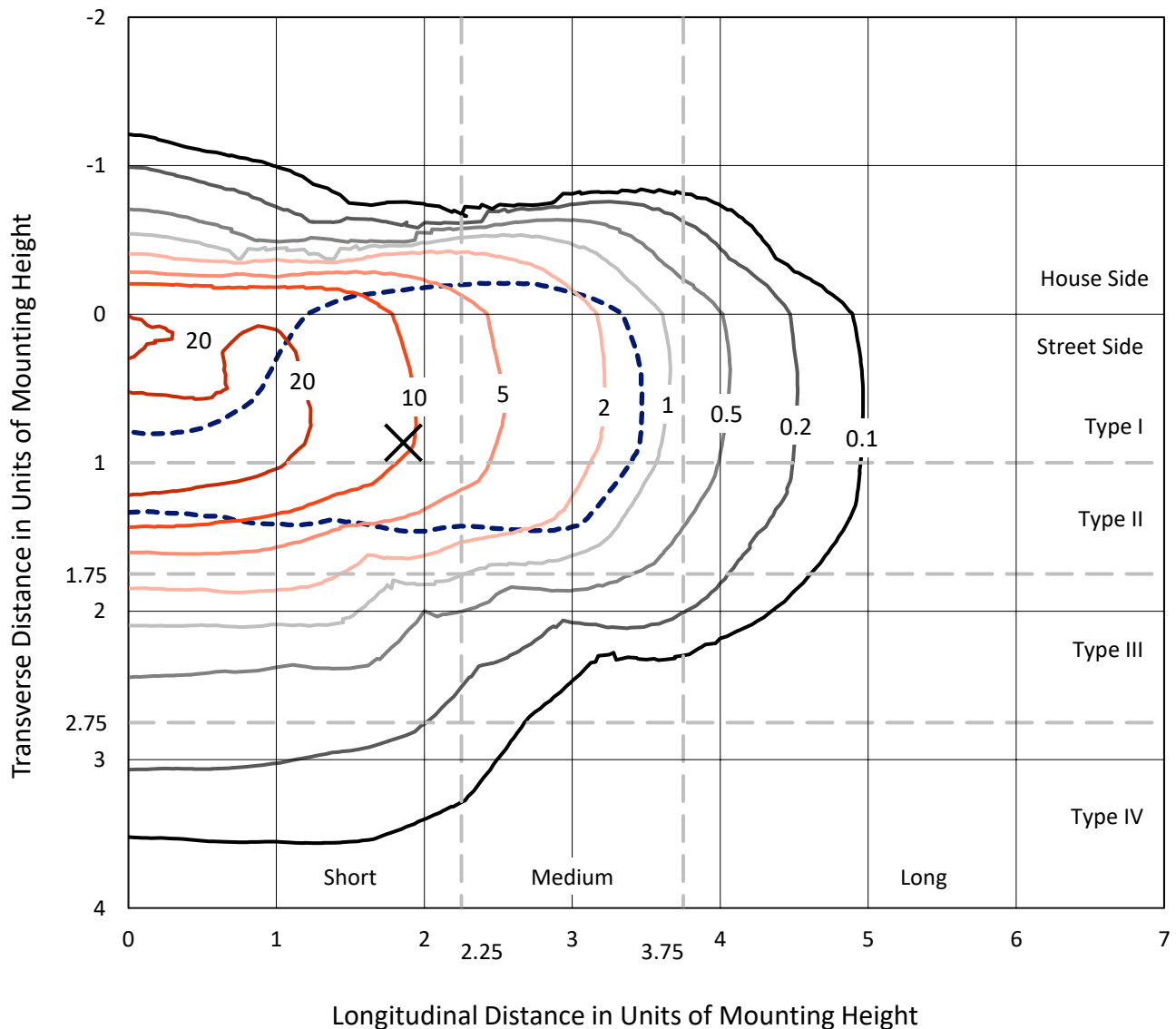


REPORT NUMBER: P622766

CATALOG NUMBER: PRV-M-PA6C-8540-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

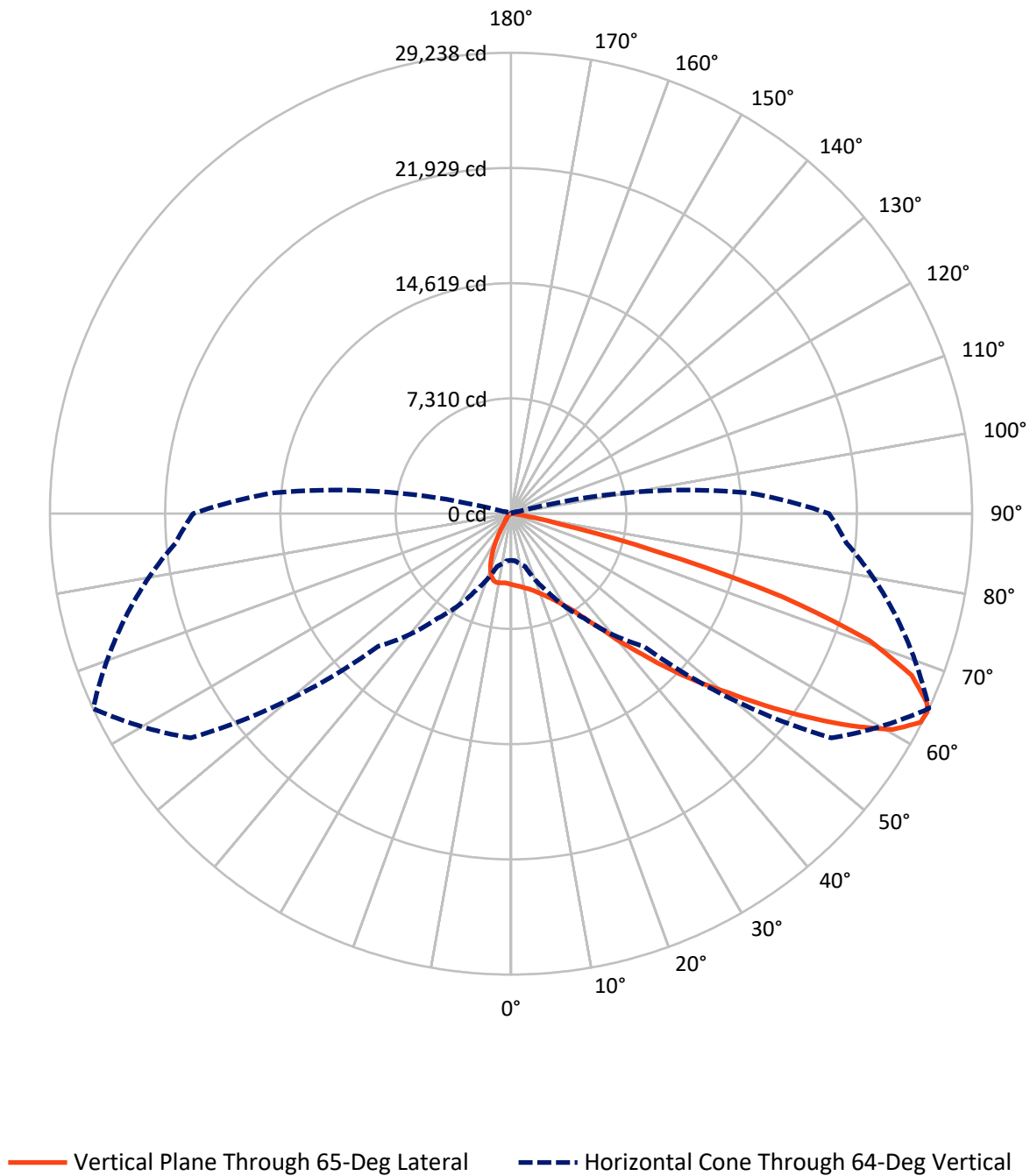


Based on 15 foot mounting height. Maximum calculated value = 32.6 fc
Type II - Short - N/A

REPORT NUMBER: P622766

CATALOG NUMBER: PRV-M-PA6C-8540-U-T2U-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P622766

CATALOG NUMBER: PRV-M-PA6C-8540-U-T2U-HSS

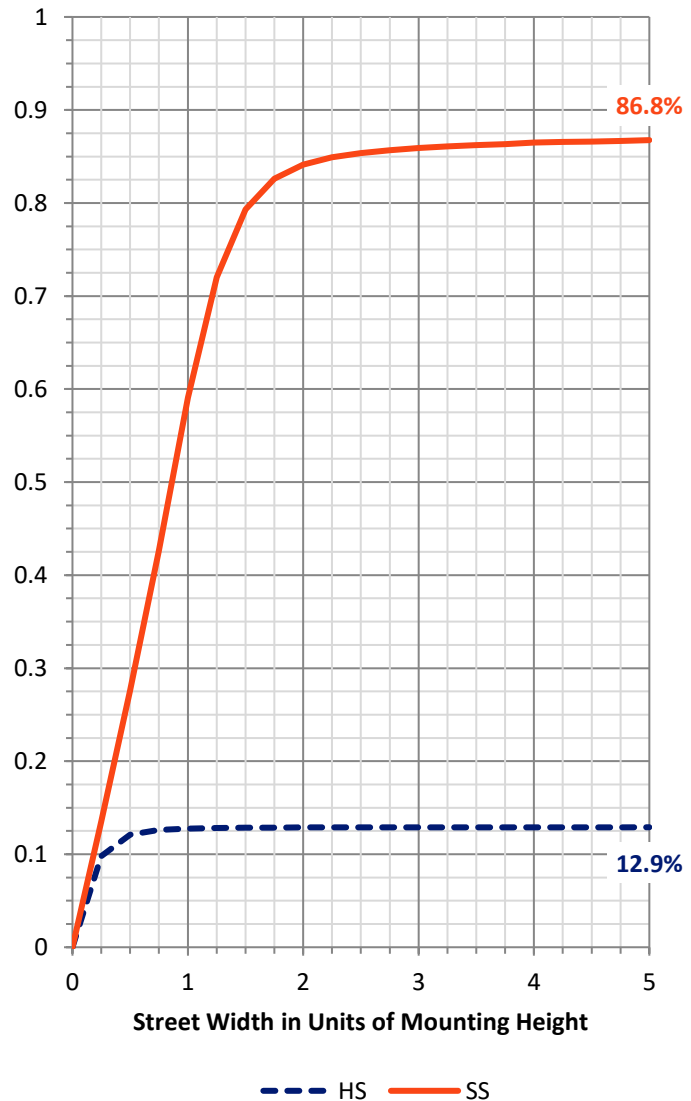
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4398.4	0.0	4398.4
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	29334.8	0.0	29334.8
	% Fixture	87.0	0.0	87.0
Total	Lumens	33733.2	0.0	33733.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.9	1.3
10°-20°	1127.7	3.3
20°-30°	1812.5	5.4
30°-40°	3303.3	9.8
40°-50°	6731.2	20.0
50°-60°	9284.9	27.5
60°-70°	7809.4	23.2
70°-80°	3058.9	9.1
80°-90°	181.4	0.5
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°	33733.2	100.0
0°-180°	33733.2	100.0

Coefficient of Utilization



REPORT NUMBER: P622766

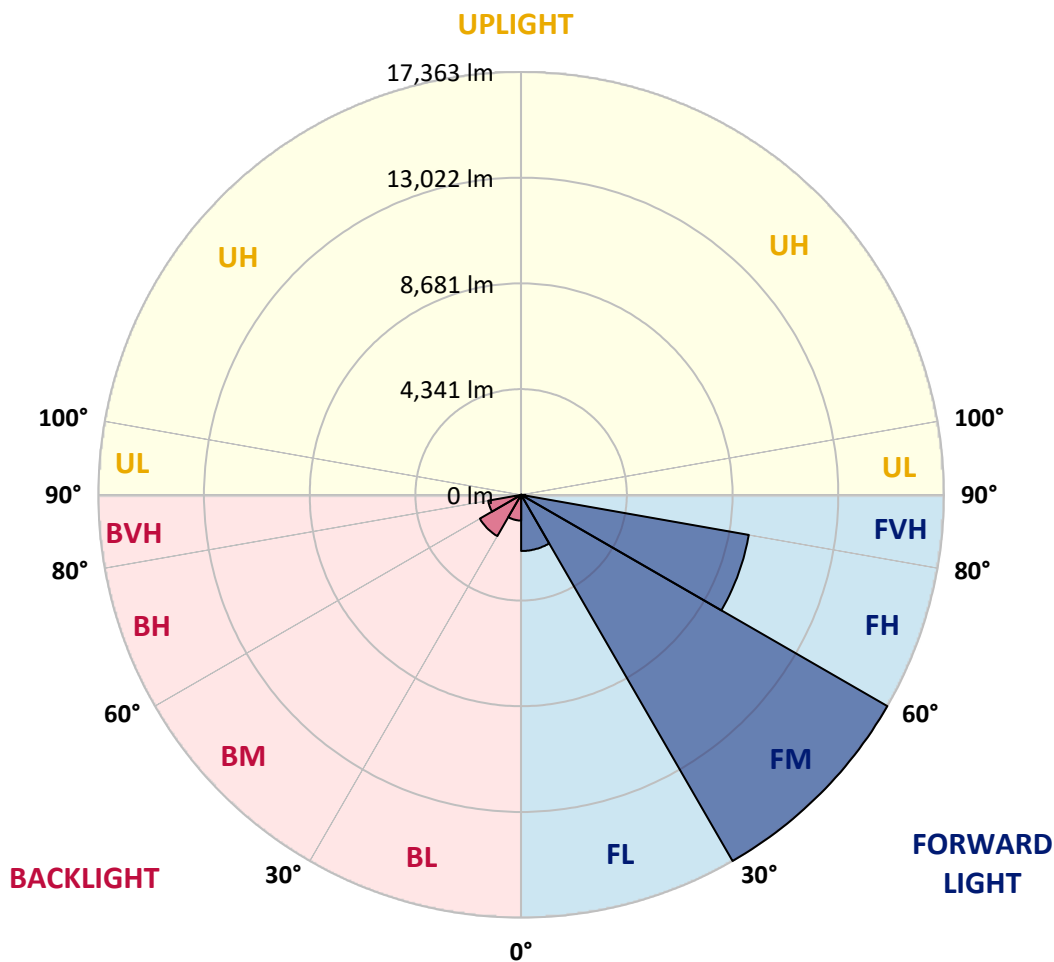
CATALOG NUMBER: PRV-M-PA6C-8540-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2307.0	6.8			
FM	(30°-60°)	17362.6	51.5			
FH	(60°-80°)	9492.3	28.1			G4/12000
FVH	(80°-90°)	172.9	0.5			G2/225
BL	(0°-30°)	1057.1	3.1	B3/2500		
BM	(30°-60°)	1956.8	5.8	B2/2500		
BH	(60°-80°)	1376.0	4.1	B3/2500		G3/2500
BVH	(80°-90°)	8.5	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-G4

Type II Short



REPORT NUMBER: P622766

CATALOG NUMBER: PRV-M-PA6C-8540-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4489.5	4489.5	4489.5	4489.5	4489.5	4489.5	4489.5	4489.5	4489.5	4489.5	4489.5
2.5°	4668.9	4627.0	4622.3	4616.5	4599.0	4587.4	4567.6	4550.1	4524.4	4501.2	4486.0
5°	4735.3	4688.7	4687.6	4688.7	4673.6	4659.6	4637.5	4608.3	4567.6	4525.6	4498.8
7.5°	4744.7	4701.5	4705.0	4709.7	4707.4	4707.4	4702.7	4684.1	4646.8	4589.7	4557.1
10°	4787.7	4749.3	4746.9	4744.7	4741.1	4751.6	4777.2	4785.5	4750.5	4692.2	4648.0
12.5°	4889.1	4847.2	4844.8	4836.7	4828.5	4836.7	4874.0	4896.1	4874.0	4804.1	4752.8
15°	5026.6	4982.3	4977.7	4969.5	4963.7	4978.9	5009.2	5032.4	5006.8	4928.8	4864.6
17.5°	5183.9	5129.1	5142.0	5135.0	5136.2	5146.7	5182.8	5206.1	5173.4	5080.2	4999.8
20°	5357.5	5300.4	5324.9	5334.3	5330.7	5354.1	5400.7	5421.6	5368.0	5244.5	5146.7
22.5°	5555.6	5497.4	5540.4	5574.3	5542.8	5592.9	5658.1	5671.0	5602.2	5432.1	5306.2
25°	5813.1	5744.4	5794.5	5833.0	5768.8	5848.1	5944.8	5970.5	5891.2	5689.6	5523.0
27.5°	6224.5	6131.2	6137.1	6127.8	6048.5	6138.2	6278.0	6335.1	6241.9	5997.2	5796.8
30°	7146.1	6985.3	6793.1	6534.4	6385.2	6509.9	6697.5	6797.7	6687.0	6352.6	6099.7
32.5°	8799.5	8545.5	8148.1	7397.8	6888.6	6959.7	7219.5	7374.5	7273.1	6878.1	6553.0
35°	11175.3	10802.4	10090.5	9104.8	7870.9	7564.4	7889.5	8233.2	8135.4	7705.4	7297.6
37.5°	13999.7	13516.1	12543.3	11205.6	9415.9	8482.6	8783.2	9203.9	9256.2	8758.7	8271.7
40°	16373.2	15871.0	15046.0	13623.3	11632.1	10005.5	9967.0	10681.3	10619.5	10014.8	9429.9
42.5°	18109.4	17614.1	17073.5	15974.7	14413.4	12504.8	11556.3	12187.9	12108.6	11332.6	10655.6
45°	19114.9	18636.0	18327.2	17883.3	16998.9	16072.6	13707.3	13999.7	13699.1	12712.2	11900.0
47.5°	19398.0	18905.1	18873.7	19123.1	19328.1	19491.3	16433.8	15911.8	15332.7	14017.2	13156.1
50°	18454.2	18153.6	18589.4	19638.1	21092.2	22055.9	19505.2	17832.0	17022.3	15430.6	14421.5
52.5°	15671.7	15628.7	16833.5	18993.7	22062.8	24258.0	22481.1	20227.6	18715.3	16767.1	15667.1
55°	11996.8	11985.1	13566.3	16442.0	21517.5	24979.3	25000.3	22768.9	20325.5	18031.3	16860.3
57.5°	8171.5	8304.3	10439.0	12982.5	18599.9	24323.3	26547.6	25373.1	21960.3	19234.9	17984.6
60°	5107.0	5160.6	6963.1	9889.0	14211.8	21175.0	26987.0	27802.5	23372.5	20230.0	18984.4
62.5°	3550.4	3567.8	4343.8	7082.0	10016.0	15518.0	26163.2	29154.1	24669.4	21009.5	19797.7
64°	2965.4	2996.9	3472.3	5441.5	8103.9	11893.1	24802.2	29238.1	25290.4	21347.4	20161.2
65°	2633.3	2678.8	3038.8	4501.2	7075.0	9503.3	23250.2	28992.2	25628.3	21510.5	20313.9
67.5°	2070.6	2060.1	2239.5	2894.4	5108.2	5190.9	17582.7	27408.7	25952.2	21540.8	20337.2
70°	1810.7	1823.5	1908.6	2091.5	3595.8	3264.9	9106.0	24090.2	24812.6	20710.0	19440.0
72.5°	1414.6	1418.0	1619.6	1810.7	2380.5	2168.4	3913.9	17968.4	20605.2	17904.3	16557.3
75°	940.3	984.6	1202.5	1574.1	1629.0	1470.5	1707.0	9397.3	12488.5	11968.8	10649.8
77.5°	631.6	653.6	800.5	1162.8	1454.2	934.5	946.1	3146.0	5161.8	4625.8	4033.9
80°	400.8	416.0	526.6	806.3	1125.6	680.5	558.1	1118.6	1450.7	963.6	784.2
82.5°	272.6	289.0	351.9	581.5	721.2	612.9	333.2	518.5	568.6	251.7	190.0
85°	122.4	169.0	248.2	386.9	469.6	317.0	205.1	258.7	312.3	116.5	65.2
87.5°	23.3	34.9	144.5	208.6	141.0	75.7	100.2	97.9	137.5	46.6	21.0
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: P622766

CATALOG NUMBER: PRV-M-PA6C-8540-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4489.5	4489.5	4489.5	4489.5	4489.5	4489.5	4489.5	4489.5	4489.5	4489.5
2.5°	4474.3	4460.4	4439.4	4417.2	4392.8	4381.1	4375.2	4365.9	4363.7	4318.2
5°	4482.4	4447.5	4407.9	4365.9	4321.7	4296.1	4277.4	4254.1	4243.6	4200.5
7.5°	4532.6	4475.5	4416.0	4345.0	4254.1	4150.4	4012.9	3934.8	3873.1	3838.1
10°	4618.8	4537.3	4446.3	4290.2	4032.7	3711.1	3365.1	3133.2	3012.0	3000.4
12.5°	4710.8	4602.5	4454.5	4090.9	3523.5	2950.3	2427.1	2118.3	1973.9	1968.0
15°	4812.2	4675.9	4384.6	3676.2	2810.4	2081.1	1566.0	1299.2	1168.7	1161.7
17.5°	4934.5	4754.0	4197.0	3090.1	2029.8	1322.5	985.7	855.3	816.8	812.1
20°	5068.6	4816.9	3870.8	2429.4	1352.8	899.5	757.4	689.8	660.7	656.0
22.5°	5210.7	4841.4	3444.3	1776.9	932.2	720.1	625.7	561.6	531.3	526.6
25°	5397.1	4826.2	2935.1	1225.8	737.6	600.1	505.7	452.1	423.0	420.6
27.5°	5645.4	4766.7	2356.0	877.4	625.7	496.3	407.8	358.8	340.2	337.9
30°	5907.5	4585.0	1789.7	690.9	527.8	405.5	328.5	292.5	278.5	276.2
32.5°	6261.7	4322.9	1282.9	569.8	438.1	330.9	269.2	241.2	231.8	230.7
35°	6896.7	4088.7	869.2	469.6	357.7	271.5	224.9	205.1	200.4	200.4
37.5°	7756.6	3854.5	632.7	392.7	291.3	226.1	192.2	179.5	178.3	178.3
40°	8751.7	3572.4	504.6	330.9	243.5	193.4	166.6	157.3	159.7	159.7
42.5°	9758.5	3192.6	433.5	280.8	208.6	167.8	145.6	136.3	141.0	142.1
45°	10743.0	2688.1	382.2	241.2	182.9	145.6	125.8	117.7	123.5	123.5
47.5°	11622.8	2173.1	336.8	209.8	160.8	127.0	106.0	97.9	102.6	104.8
50°	12490.8	1667.4	294.8	185.3	144.5	109.5	88.6	81.6	86.2	88.6
52.5°	13257.5	1349.3	257.5	165.4	129.4	93.2	73.4	66.4	72.3	73.4
55°	13924.0	1100.0	222.5	148.0	113.0	78.1	59.4	54.7	60.6	61.8
57.5°	14487.9	910.0	192.2	131.7	99.0	66.4	50.1	46.6	51.3	53.6
60°	14879.4	739.9	163.1	116.5	85.0	55.9	42.0	38.4	42.0	42.0
62.5°	15091.5	600.1	139.8	102.6	73.4	48.9	36.1	29.1	31.5	31.5
64°	15117.1	532.5	127.0	94.4	66.4	45.4	31.5	23.3	24.5	24.5
65°	15091.5	490.5	116.5	88.6	63.0	43.1	29.1	18.6	18.6	19.8
67.5°	14755.9	403.2	95.5	74.5	52.5	36.1	21.0	11.7	11.7	11.7
70°	13841.2	309.9	79.2	60.6	43.1	30.3	16.3	8.1	7.0	7.0
72.5°	11112.4	213.2	63.0	45.4	33.8	24.5	11.7	4.7	2.3	2.3
75°	5200.2	136.3	44.2	30.3	23.3	18.6	8.1	2.3	0.0	0.0
77.5°	1521.8	78.1	28.0	19.8	16.3	12.8	7.0	1.2	0.0	0.0
80°	309.9	31.5	18.6	15.1	12.8	10.5	5.8	1.2	0.0	0.0
82.5°	52.5	16.3	15.1	11.7	10.5	8.1	4.7	0.0	0.0	0.0
85°	19.8	11.7	12.8	10.5	9.3	7.0	3.5	0.0	0.0	0.0
87.5°	11.7	11.7	11.7	10.5	8.1	4.7	2.3	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)