

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: P622685

Luminaire Tested: **PRV-M-PA6B-8540-U-T2U-HSS**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622685
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-PA6B-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: 28653.1 lumens
Efficiency: N/A
Efficacy: 78.3 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): 365.8
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

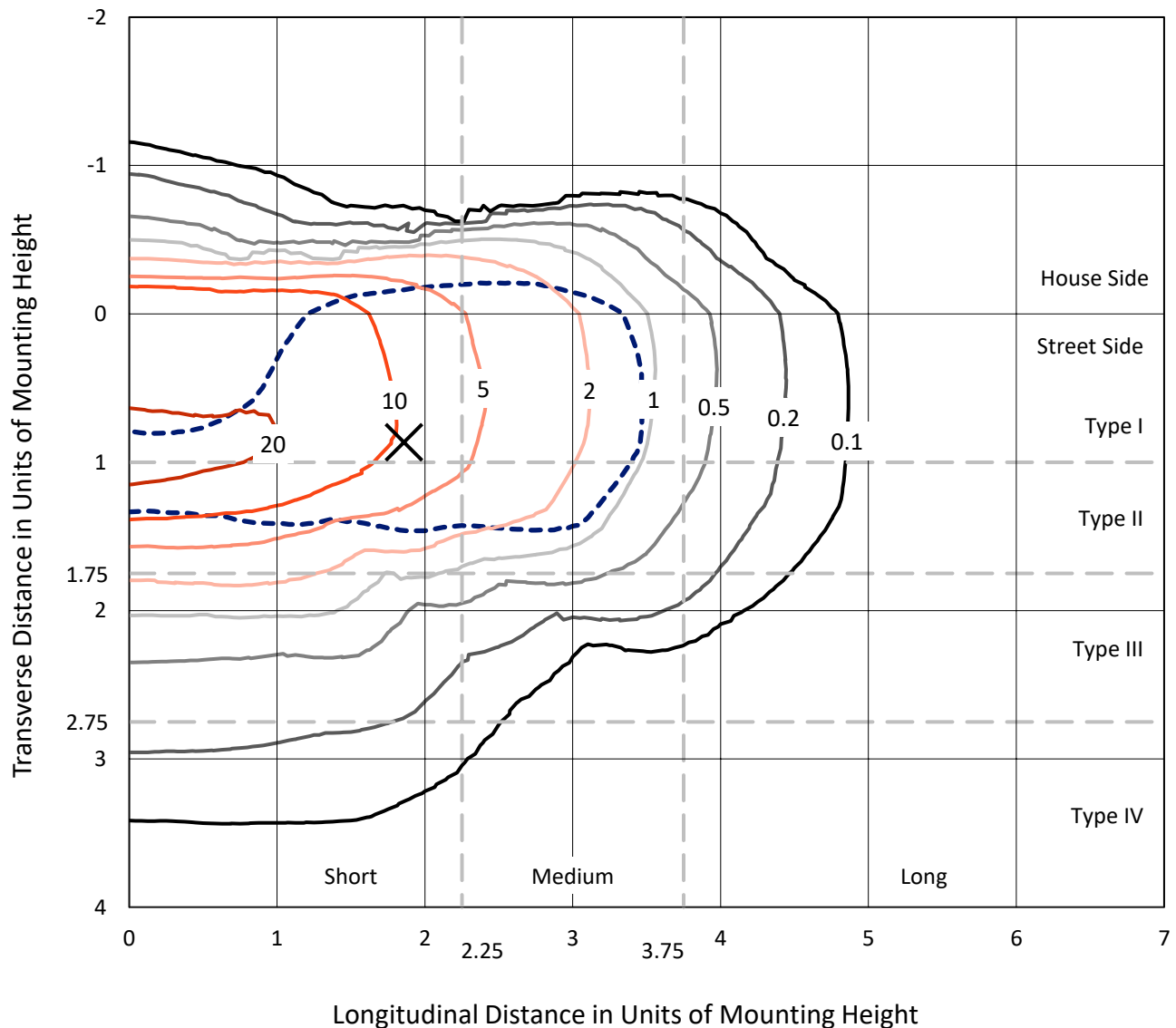


REPORT NUMBER: P622685

CATALOG NUMBER: PRV-M-PA6B-8540-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

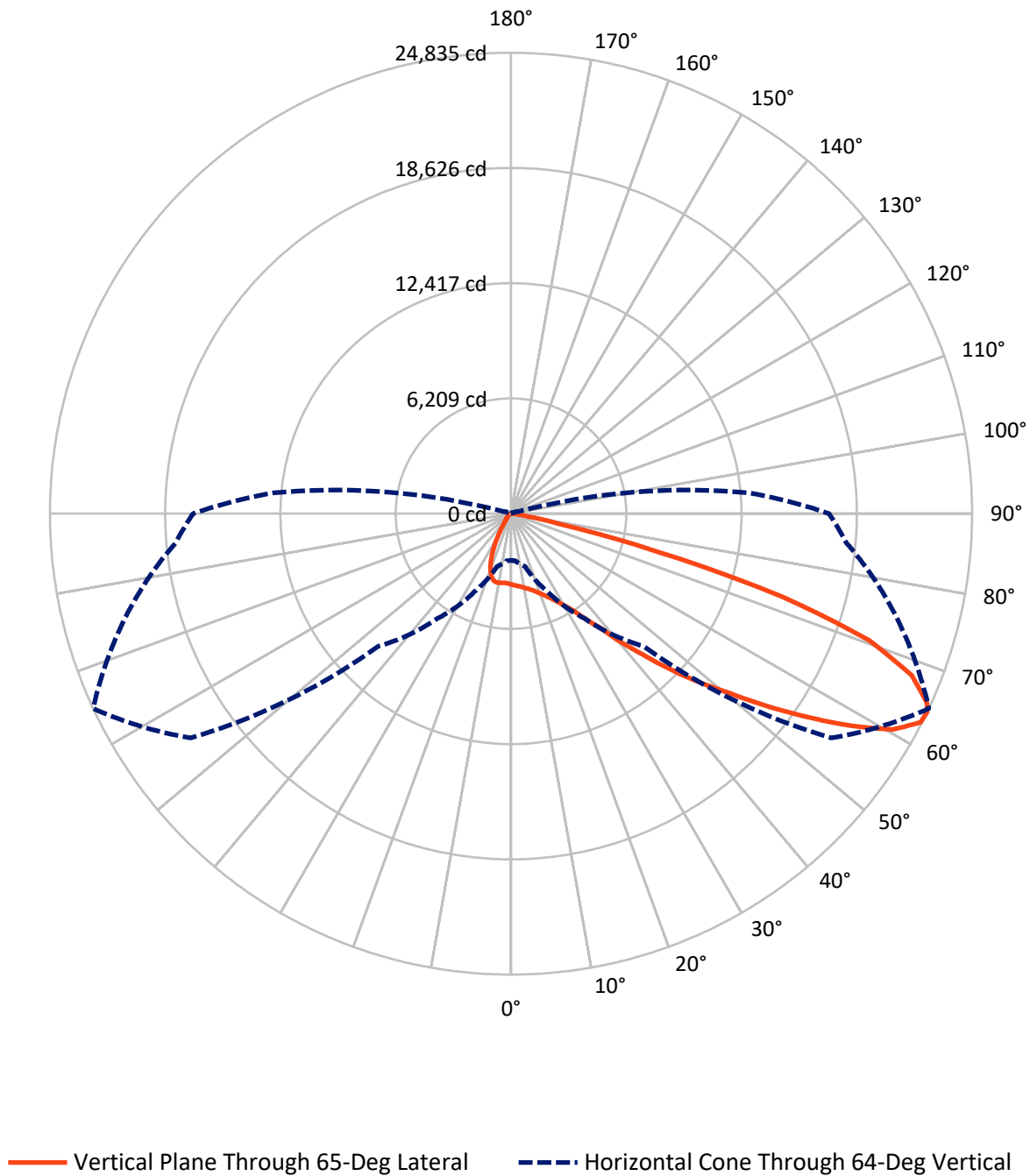


Based on 15 foot mounting height. Maximum calculated value = 27.7 fc
 Type II - Short - N/A

REPORT NUMBER: P622685

CATALOG NUMBER: PRV-M-PA6B-8540-U-T2U-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P622685

CATALOG NUMBER: PRV-M-PA6B-8540-U-T2U-HSS

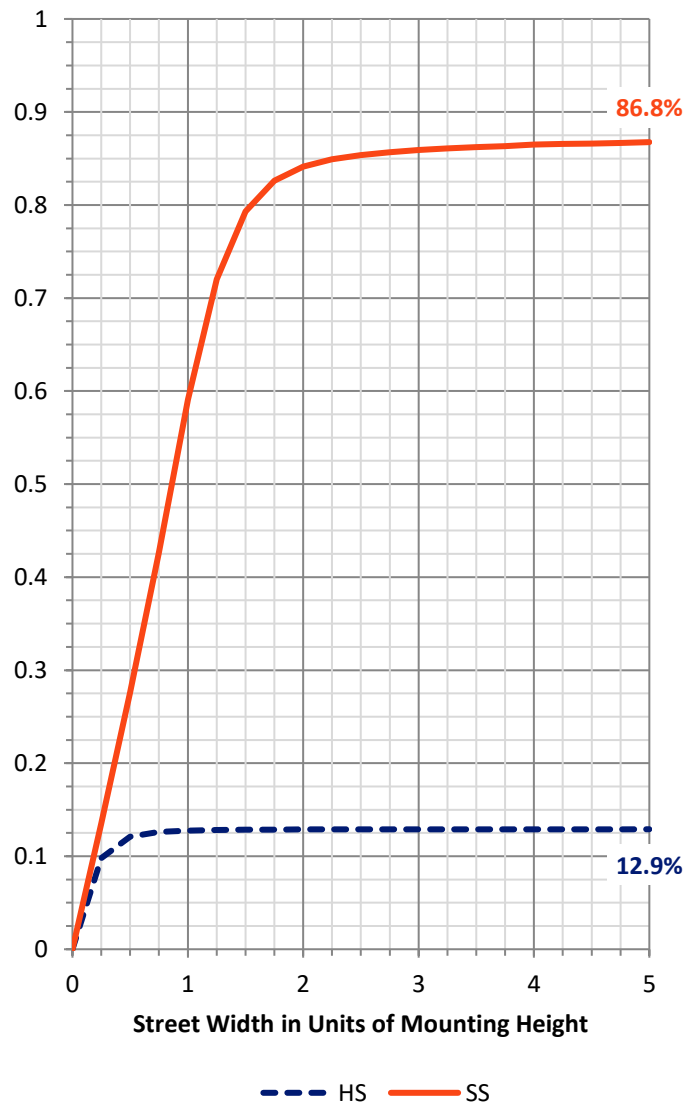
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3736.0	0.0	3736.0
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	24917.1	0.0	24917.1
	% Fixture	87.0	0.0	87.0
Total	Lumens	28653.1	0.0	28653.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.1	1.3
10°-20°	957.9	3.3
20°-30°	1539.5	5.4
30°-40°	2805.8	9.8
40°-50°	5717.5	20.0
50°-60°	7886.6	27.5
60°-70°	6633.4	23.2
70°-80°	2598.2	9.1
80°-90°	154.1	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°	28653.1	100.0
0°-180°	28653.1	100.0

Coefficient of Utilization



REPORT NUMBER: P622685

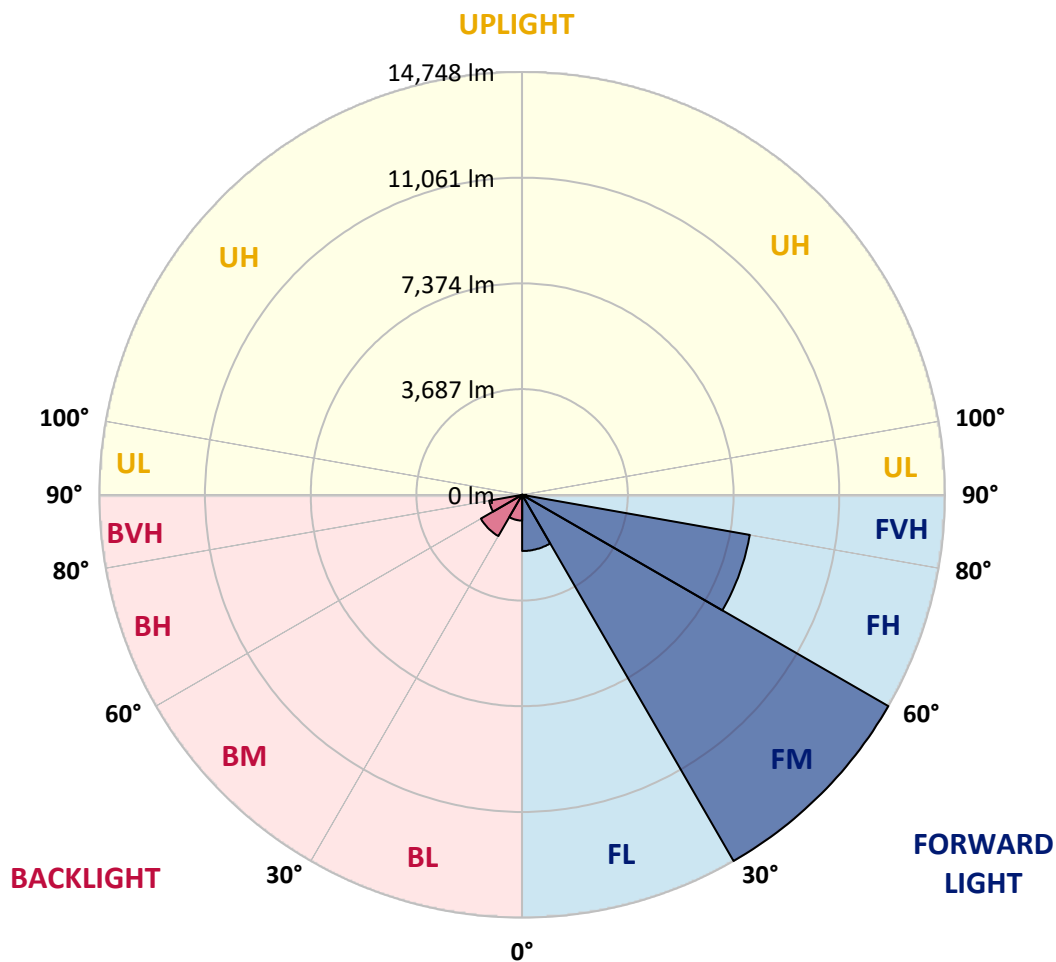
CATALOG NUMBER: PRV-M-PA6B-8540-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1959.5	6.8			
FM	(30°-60°)	14747.9	51.5			
FH	(60°-80°)	8062.8	28.1			G4/12000
FVH	(80°-90°)	146.8	0.5			G2/225
BL	(0°-30°)	897.9	3.1	B2/1000		
BM	(30°-60°)	1662.1	5.8	B2/2500		
BH	(60°-80°)	1168.8	4.1	B3/2500		G3/2500
BVH	(80°-90°)	7.2	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: P622685

CATALOG NUMBER: PRV-M-PA6B-8540-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3813.4	3813.4	3813.4	3813.4	3813.4	3813.4	3813.4	3813.4	3813.4	3813.4	3813.4
2.5°	3965.8	3930.2	3926.2	3921.3	3906.4	3896.5	3879.7	3864.8	3843.0	3823.2	3810.4
5°	4022.2	3982.6	3981.6	3982.6	3969.7	3957.8	3939.0	3914.3	3879.7	3844.1	3821.3
7.5°	4030.1	3993.5	3996.4	4000.4	3998.5	3998.5	3994.5	3978.7	3946.9	3898.5	3870.8
10°	4066.7	4034.1	4032.1	4030.1	4027.1	4036.1	4057.8	4064.8	4035.0	3985.5	3948.0
12.5°	4152.9	4117.2	4115.2	4108.3	4101.4	4108.3	4140.0	4158.7	4140.0	4080.6	4037.1
15°	4269.6	4232.0	4228.0	4221.2	4216.2	4229.1	4254.8	4274.6	4252.8	4186.5	4132.0
17.5°	4403.3	4356.7	4367.6	4361.7	4362.6	4371.6	4402.3	4422.1	4394.4	4315.2	4246.8
20°	4550.7	4502.2	4523.0	4530.9	4527.9	4547.7	4587.4	4605.1	4559.6	4454.7	4371.6
22.5°	4719.0	4669.5	4706.1	4734.8	4708.1	4750.6	4806.1	4816.9	4758.5	4614.1	4507.2
25°	4937.7	4879.3	4921.9	4954.5	4900.1	4967.4	5049.5	5071.3	5004.0	4832.8	4691.3
27.5°	5287.1	5207.9	5212.8	5204.9	5137.6	5213.8	5332.6	5381.1	5301.9	5094.0	4923.8
30°	6069.9	5933.3	5770.0	5550.3	5423.6	5529.5	5688.9	5774.0	5680.0	5395.9	5181.2
32.5°	7474.4	7258.6	6921.1	6283.7	5851.2	5911.6	6132.3	6263.9	6177.8	5842.3	5566.2
35°	9492.4	9175.7	8571.0	7733.6	6685.5	6425.2	6701.4	6993.3	6910.2	6545.0	6198.6
37.5°	11891.4	11480.7	10654.3	9518.1	7997.9	7205.1	7460.5	7817.8	7862.3	7439.7	7026.0
40°	13907.5	13480.9	12780.2	11571.7	9880.3	8498.7	8466.0	9072.7	9020.2	8506.6	8009.8
42.5°	15382.1	14961.5	14502.3	13569.0	12242.8	10621.6	9816.0	10352.4	10285.1	9626.0	9050.9
45°	16236.3	15829.5	15567.2	15190.1	14438.9	13652.2	11643.0	11891.4	11636.1	10797.8	10108.0
47.5°	16476.7	16058.2	16031.4	16243.2	16417.4	16555.9	13958.9	13515.5	13023.6	11906.3	11174.9
50°	15675.1	15419.8	15789.9	16680.6	17915.8	18734.3	16567.8	15146.6	14458.7	13106.8	12249.7
52.5°	13311.6	13275.1	14298.4	16133.3	18740.2	20604.9	19095.6	17181.4	15896.8	14242.0	13307.7
55°	10190.1	10180.2	11523.3	13965.9	18277.1	21217.5	21235.4	19340.0	17264.6	15315.9	14321.1
57.5°	6940.9	7053.7	8866.8	11027.4	15798.8	20660.3	22549.7	21552.0	18653.2	16338.2	15276.3
60°	4337.9	4383.5	5914.5	8399.7	12071.5	17986.1	22922.8	23615.6	19852.7	17183.4	16125.4
62.5°	3015.6	3030.5	3689.7	6015.5	8507.6	13181.0	22223.0	24763.6	20954.3	17845.5	16816.3
64°	2518.8	2545.5	2949.3	4622.0	6883.4	10102.0	21067.1	24834.9	21481.8	18132.6	17125.1
65°	2236.7	2275.3	2581.2	3823.2	6009.5	8072.1	19748.7	24626.1	21768.8	18271.1	17254.7
67.5°	1758.7	1749.8	1902.2	2458.5	4338.9	4409.2	14934.8	23281.1	22043.9	18296.8	17274.5
70°	1538.0	1548.9	1621.1	1776.5	3054.2	2773.2	7734.6	20462.4	21076.0	17591.2	16512.4
72.5°	1201.5	1204.5	1375.7	1538.0	2022.0	1841.9	3324.5	15262.4	17502.1	15208.0	14063.9
75°	798.7	836.3	1021.4	1337.1	1383.6	1249.0	1450.0	7982.1	10607.8	10166.3	9046.0
77.5°	536.4	555.2	680.0	987.8	1235.2	793.7	803.7	2672.2	4384.4	3929.2	3426.4
80°	340.4	353.3	447.3	684.9	956.0	578.0	474.1	950.1	1232.2	818.5	666.1
82.5°	231.6	245.5	298.9	493.8	612.6	520.6	283.1	440.4	483.0	213.8	161.3
85°	103.9	143.5	210.8	328.5	398.9	269.2	174.2	219.7	265.3	99.0	55.4
87.5°	19.8	29.7	122.7	177.2	119.7	64.4	85.1	83.2	116.8	39.6	17.9
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: P622685

CATALOG NUMBER: PRV-M-PA6B-8540-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3813.4	3813.4	3813.4	3813.4	3813.4	3813.4	3813.4	3813.4	3813.4	3813.4
2.5°	3800.5	3788.6	3770.8	3752.0	3731.2	3721.4	3716.4	3708.4	3706.5	3667.9
5°	3807.4	3777.7	3744.1	3708.4	3670.9	3649.1	3633.3	3613.5	3604.5	3567.9
7.5°	3850.0	3801.5	3751.0	3690.7	3613.5	3525.4	3408.6	3342.2	3289.8	3260.1
10°	3923.2	3853.9	3776.7	3644.2	3425.4	3152.3	2858.3	2661.3	2558.4	2548.5
12.5°	4001.4	3909.4	3783.7	3474.9	2992.9	2506.0	2061.6	1799.3	1676.6	1671.6
15°	4087.5	3971.7	3724.3	3122.5	2387.2	1767.6	1330.2	1103.6	992.7	986.7
17.5°	4191.5	4038.0	3564.9	2624.7	1724.1	1123.3	837.3	726.5	693.8	689.8
20°	4305.2	4091.5	3287.8	2063.5	1149.1	764.1	643.3	585.9	561.2	557.2
22.5°	4426.0	4112.2	2925.6	1509.3	791.8	611.7	531.5	477.0	451.3	447.3
25°	4584.4	4099.4	2493.1	1041.2	626.5	509.7	429.6	384.0	359.2	357.3
27.5°	4795.2	4048.9	2001.2	745.3	531.5	421.6	346.4	304.8	289.0	287.0
30°	5017.9	3894.6	1520.2	586.9	448.3	344.4	279.1	248.4	236.5	234.6
32.5°	5318.8	3671.9	1089.7	484.0	372.2	281.1	228.6	204.8	196.9	196.0
35°	5858.1	3472.9	738.3	398.9	303.8	230.6	191.1	174.2	170.2	170.2
37.5°	6588.6	3274.0	537.5	333.6	247.4	192.0	163.3	152.5	151.4	151.4
40°	7433.7	3034.4	428.5	281.1	206.9	164.3	141.6	133.6	135.6	135.6
42.5°	8288.8	2711.8	368.2	238.5	177.2	142.5	123.7	115.8	119.7	120.7
45°	9125.2	2283.3	324.6	204.8	155.3	123.7	106.9	100.0	104.9	104.9
47.5°	9872.4	1845.8	286.0	178.1	136.6	107.9	90.0	83.2	87.1	89.1
50°	10609.7	1416.3	250.4	157.4	122.7	93.0	75.2	69.3	73.2	75.2
52.5°	11260.9	1146.1	218.7	140.5	109.9	79.2	62.3	56.4	61.4	62.3
55°	11827.1	934.3	189.0	125.7	96.0	66.3	50.5	46.5	51.4	52.5
57.5°	12306.1	773.0	163.3	111.8	84.1	56.4	42.6	39.6	43.5	45.5
60°	12638.6	628.4	138.6	99.0	72.3	47.5	35.6	32.7	35.6	35.6
62.5°	12818.8	509.7	118.8	87.1	62.3	41.6	30.7	24.7	26.7	26.7
64°	12840.6	452.3	107.9	80.2	56.4	38.6	26.7	19.8	20.7	20.7
65°	12818.8	416.6	99.0	75.2	53.5	36.6	24.7	15.8	15.8	16.8
67.5°	12533.7	342.4	81.1	63.3	44.6	30.7	17.9	9.9	9.9	9.9
70°	11756.8	263.2	67.3	51.4	36.6	25.8	13.9	6.9	6.0	6.0
72.5°	9438.9	181.1	53.5	38.6	28.7	20.7	9.9	4.0	2.0	2.0
75°	4417.1	115.8	37.6	25.8	19.8	15.8	6.9	2.0	0.0	0.0
77.5°	1292.6	66.3	23.7	16.8	13.9	10.9	6.0	1.0	0.0	0.0
80°	263.2	26.7	15.8	12.8	10.9	8.9	4.9	1.0	0.0	0.0
82.5°	44.6	13.9	12.8	9.9	8.9	6.9	4.0	0.0	0.0	0.0
85°	16.8	9.9	10.9	8.9	7.9	6.0	3.0	0.0	0.0	0.0
87.5°	9.9	9.9	9.9	8.9	6.9	4.0	2.0	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)