

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: P622688

Luminaire Tested: **PRV-M-PA6B-8540-U-T3**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622688
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-10)
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-T3
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 85 CRI, 4000K LIGHT ENGINES AND TYPE III OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40731.7 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

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

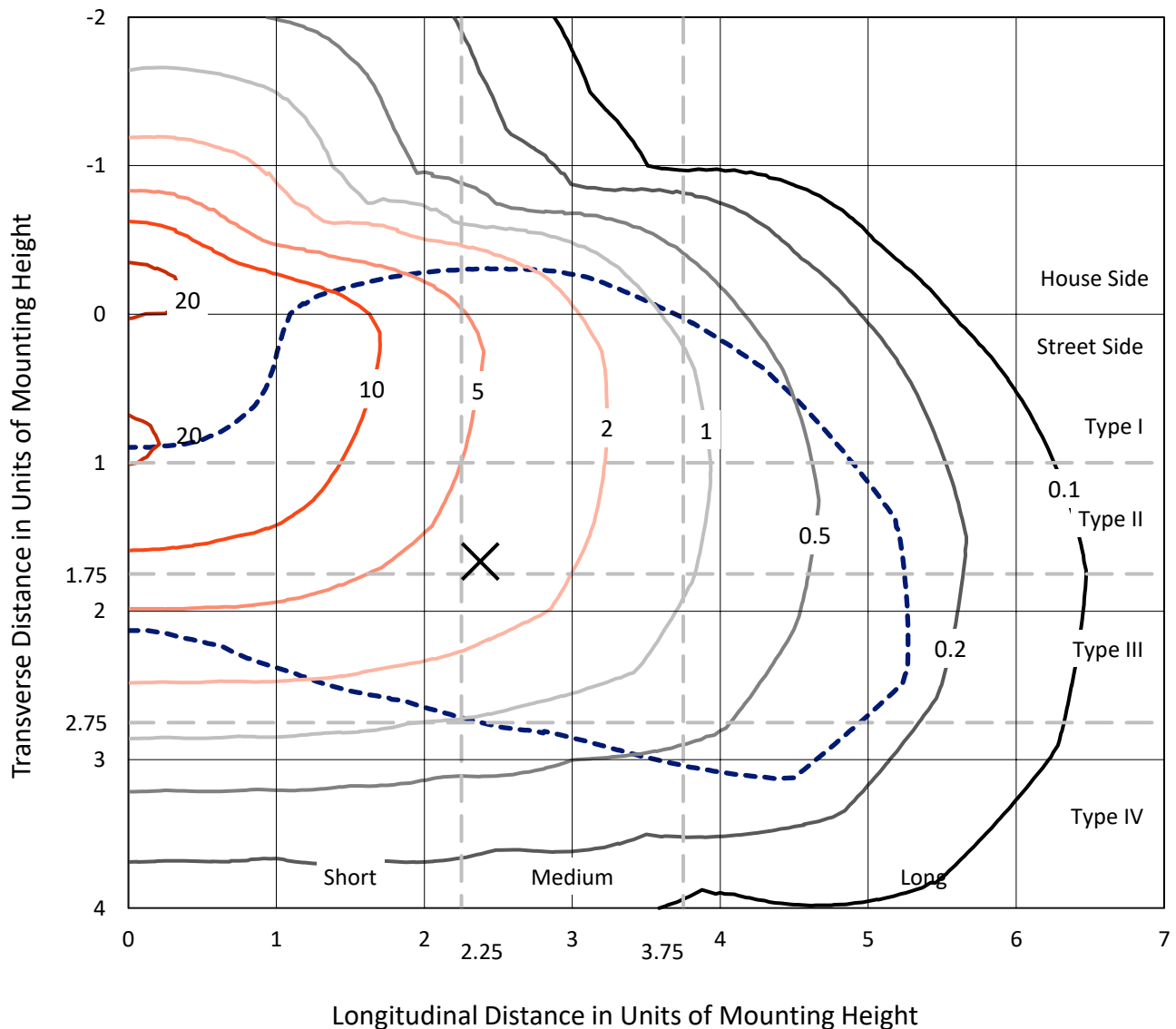


REPORT NUMBER: P622688

CATALOG NUMBER: PRV-M-PA6B-8540-U-T3

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

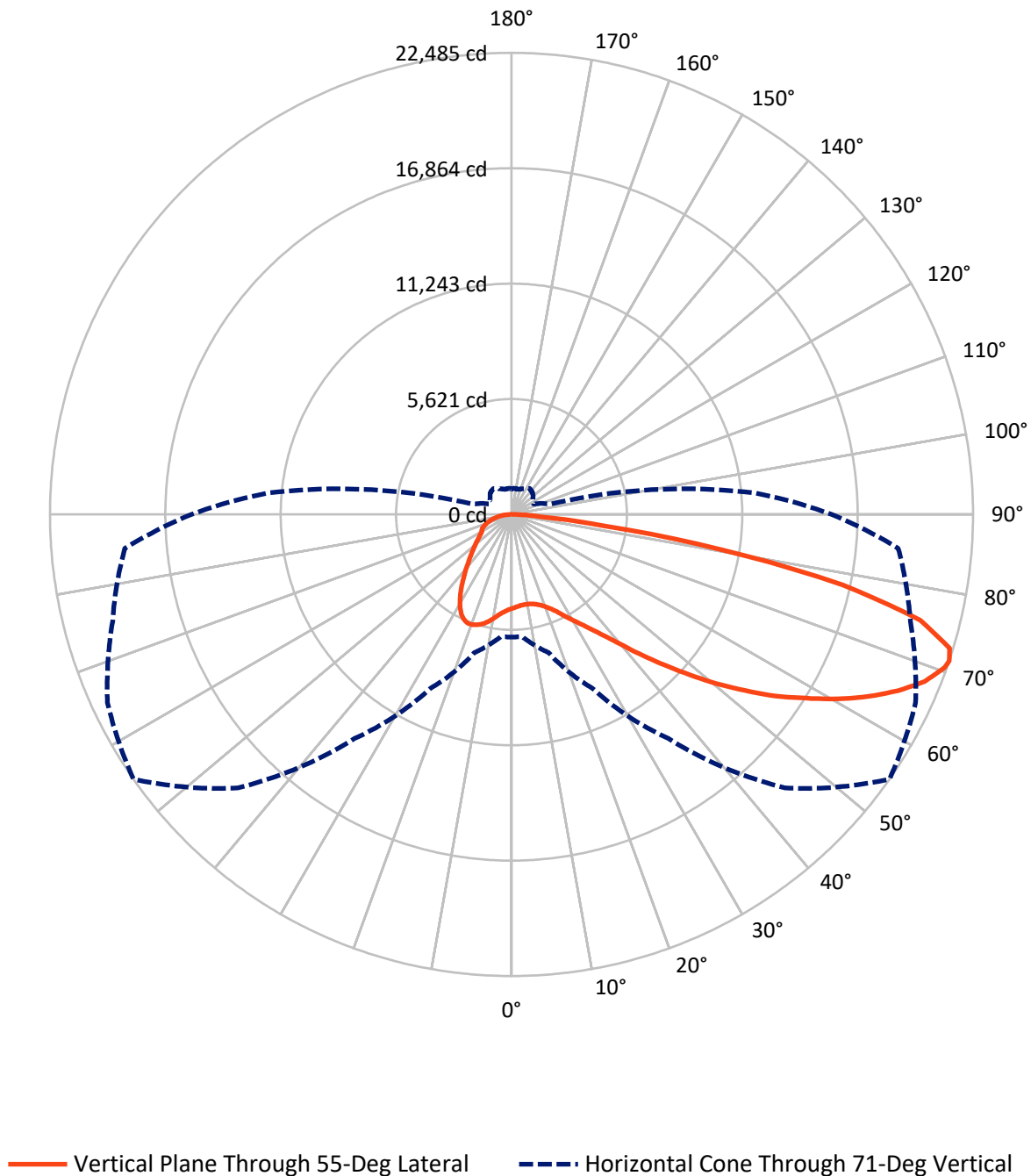


Based on 15 foot mounting height. Maximum calculated value = 22.6 fc
Type IV - Medium - N/A

REPORT NUMBER: P622688

CATALOG NUMBER: PRV-M-PA6B-8540-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P622688

CATALOG NUMBER: PRV-M-PA6B-8540-U-T3

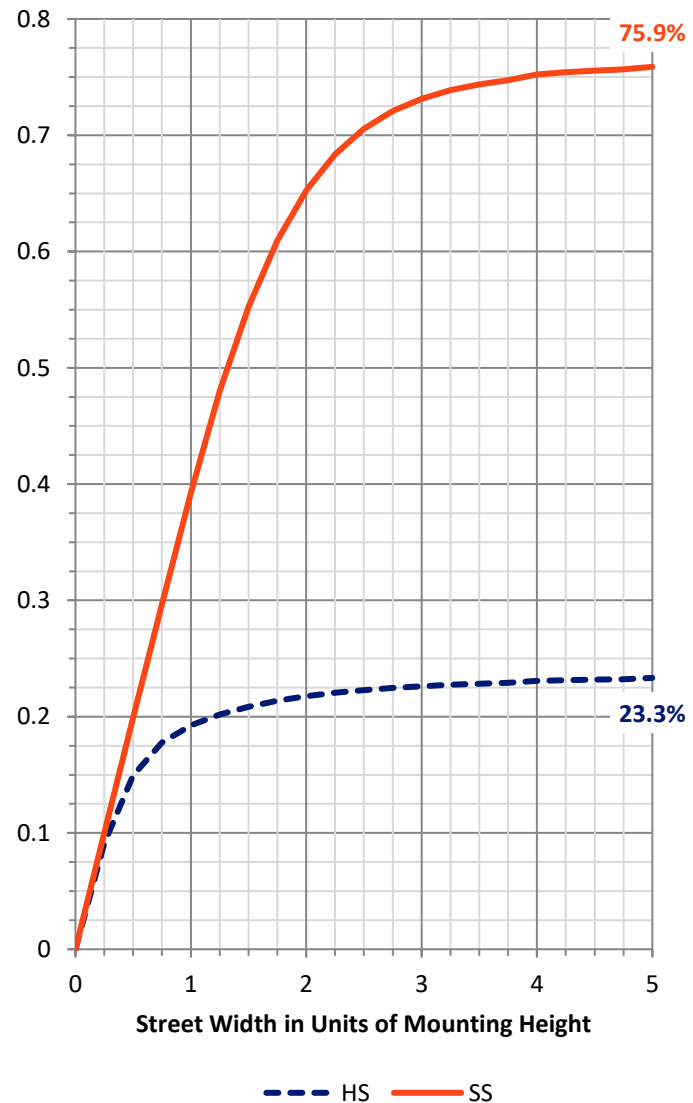
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9677.1	0.0	9677.1
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	31054.5	0.0	31054.5
	% Fixture	76.2	0.0	76.2
Total	Lumens	40731.7	0.0	40731.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.9	1.1
10°-20°	1420.5	3.5
20°-30°	2504.2	6.1
30°-40°	3751.3	9.2
40°-50°	5870.4	14.4
50°-60°	8629.0	21.2
60°-70°	10106.7	24.8
70°-80°	6845.4	16.8
80°-90°	1157.4	2.8
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°	40731.7	100.0
0°-180°	40731.7	100.0

Coefficient of Utilization



REPORT NUMBER: P622688

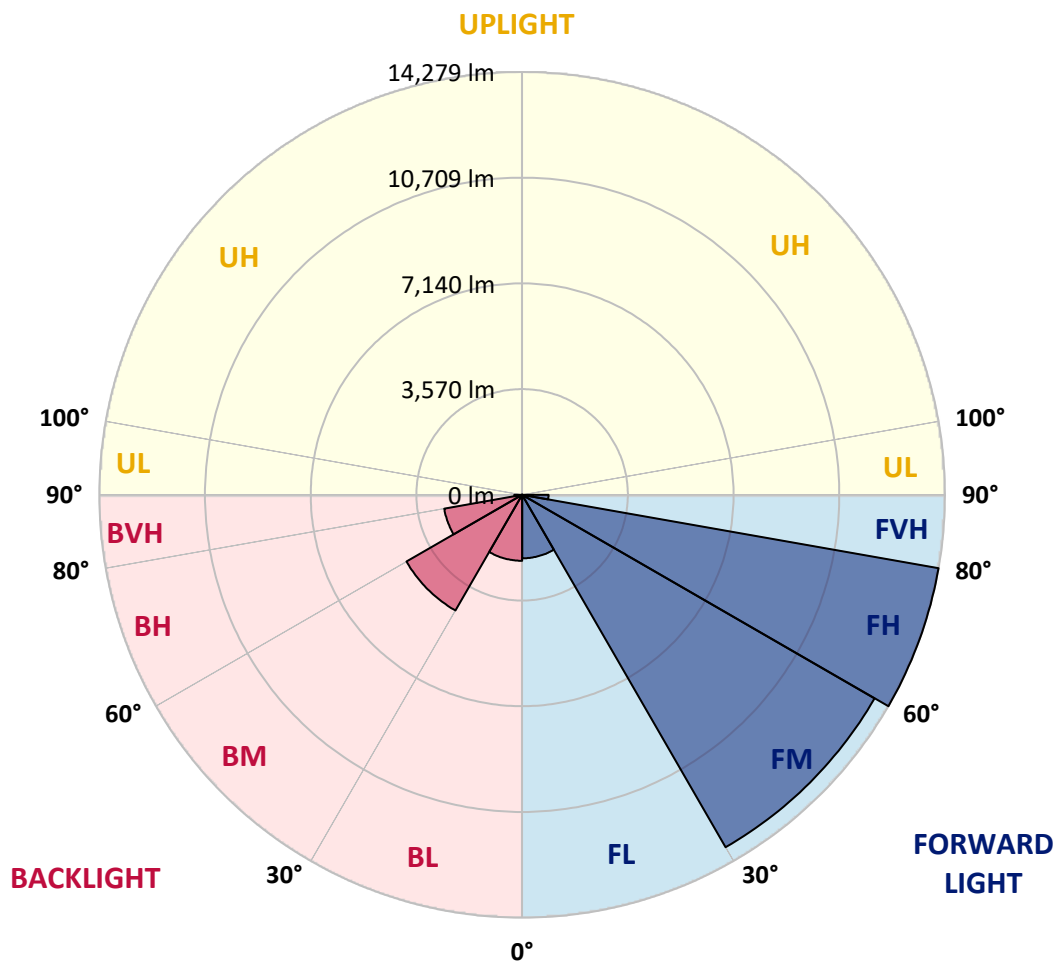
CATALOG NUMBER: PRV-M-PA6B-8540-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2142.8	5.3			
FM	(30°-60°)	13742.0	33.7			
FH	(60°-80°)	14279.2	35.1			G5
FVH	(80°-90°)	890.5	2.2			G5
BL	(0°-30°)	2228.8	5.5	B3/2500		
BM	(30°-60°)	4508.7	11.1	B3/5000		
BH	(60°-80°)	2672.8	6.6	B4/5000		G4/5000
BVH	(80°-90°)	266.9	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



REPORT NUMBER: P622688

CATALOG NUMBER: PRV-M-PA6B-8540-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4584.3	4584.3	4584.3	4584.3	4584.3	4584.3	4584.3	4584.3	4584.3	4584.3	4584.3
2.5°	4515.0	4484.3	4485.3	4485.3	4481.4	4500.2	4510.1	4525.9	4540.8	4557.6	4574.4
5°	4399.2	4377.4	4384.4	4397.2	4405.2	4432.9	4455.7	4482.4	4507.1	4540.8	4563.6
7.5°	4288.4	4260.7	4282.5	4315.1	4338.8	4395.3	4436.9	4478.4	4515.0	4567.5	4601.1
10°	4230.0	4205.3	4232.0	4273.5	4312.1	4379.5	4441.8	4506.2	4571.5	4657.5	4699.1
12.5°	4249.8	4225.1	4245.8	4288.4	4328.0	4396.3	4469.5	4570.4	4665.5	4770.3	4824.8
15°	4344.8	4322.1	4335.9	4365.6	4388.3	4449.7	4539.8	4664.5	4782.3	4906.0	4963.4
17.5°	4559.6	4528.9	4514.1	4498.2	4502.2	4544.8	4648.7	4795.1	4927.7	5062.3	5119.7
20°	4875.3	4839.6	4811.0	4731.7	4683.3	4716.9	4809.0	4956.5	5098.0	5233.6	5289.9
22.5°	5310.8	5254.3	5193.0	5056.4	4958.4	4950.5	5007.9	5152.4	5289.0	5412.7	5479.0
25°	5727.4	5681.9	5619.5	5449.3	5297.9	5242.5	5279.1	5398.9	5511.7	5601.7	5659.1
27.5°	6211.4	6144.1	6028.3	5863.0	5691.8	5594.8	5629.5	5714.6	5796.7	5832.3	5866.0
30°	6732.0	6663.7	6540.9	6311.4	6109.4	6000.6	6007.5	6133.2	6155.0	6112.4	6129.2
32.5°	7404.0	7335.7	7190.2	6881.4	6616.2	6450.9	6439.0	6527.1	6529.1	6444.0	6440.0
35°	8255.2	8169.0	7962.2	7586.1	7233.7	6983.3	6961.6	7042.8	7048.7	6940.8	6908.2
37.5°	9205.3	9149.8	8956.8	8424.4	7961.2	7670.2	7592.0	7735.6	7777.1	7627.7	7560.3
40°	10291.0	10244.5	10105.9	9437.8	8853.9	8518.4	8413.5	8561.9	8656.0	8502.6	8414.5
42.5°	11507.3	11457.8	11174.7	10539.4	9942.6	9511.1	9404.2	9523.9	9731.8	9452.7	9281.4
45°	12824.6	12785.1	12330.8	11792.4	11191.6	10784.8	10479.0	10561.2	10784.8	10554.2	10257.3
47.5°	13851.9	13756.9	13441.2	13087.8	12637.5	12128.8	11659.7	11688.5	11869.6	11647.8	11190.6
50°	14614.0	14590.3	14332.0	14153.8	14158.8	13698.5	12957.2	12854.3	13041.3	12747.4	12200.1
52.5°	15290.0	15207.8	14990.1	15064.3	15511.7	15415.6	14248.8	14017.2	14262.7	13931.1	13236.3
55°	15432.5	15259.3	15369.1	15799.7	16646.9	16818.1	15617.6	15331.5	15525.5	15211.8	14311.1
57.5°	15074.2	15049.5	15438.4	16217.3	17522.8	17833.5	16881.4	16638.9	16652.8	16472.7	15361.2
60°	14207.2	14293.4	15150.4	16354.9	18215.6	18743.1	18250.2	17933.4	17776.1	17771.1	16340.0
62.5°	12851.3	12998.8	14153.8	16057.0	18410.5	19460.6	19520.0	19174.6	18815.3	18881.6	17136.7
65°	11121.3	11141.2	12449.5	15132.6	17952.3	19953.5	20696.7	20283.1	19690.2	19796.1	17552.4
67.5°	9101.4	9108.2	10338.5	13207.6	16865.6	20114.8	21709.2	21093.6	20188.0	20102.0	17356.4
70°	6903.2	6925.0	7884.0	10625.5	14605.1	19507.1	22377.3	21628.0	20255.3	19497.2	16311.4
71°	5970.9	5973.9	6964.6	9352.7	13325.4	18839.1	22485.1	21719.1	20118.7	18909.3	15589.8
72.5°	4464.6	4457.6	5320.6	7349.6	11123.3	17255.5	22322.8	21633.0	19728.8	17659.3	14173.6
75°	2343.6	2348.6	2815.7	4257.7	7061.6	13054.3	20564.1	20348.4	18129.4	14549.7	11034.3
77.5°	1226.3	1227.3	1483.6	2146.7	3675.8	7739.5	16481.6	17207.1	15099.9	10337.5	7251.6
80°	817.5	822.5	959.0	1276.8	2016.1	3296.7	10310.8	11730.0	10150.4	5902.6	3780.7
82.5°	599.8	603.7	720.5	876.9	1359.8	1464.8	4536.8	6090.6	4959.4	2502.0	1549.9
85°	461.2	463.1	563.1	602.8	899.7	810.6	1470.7	2465.4	1927.0	511.7	433.5
87.5°	235.5	254.3	366.2	330.6	440.4	320.6	510.7	574.0	491.9	170.2	138.6
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: P622688

CATALOG NUMBER: PRV-M-PA6B-8540-U-T3

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4584.3	4584.3	4584.3	4584.3	4584.3	4584.3	4584.3	4584.3	4584.3	4584.3
2.5°	4588.3	4621.9	4643.7	4655.6	4680.3	4706.1	4740.7	4755.6	4764.5	4729.8
5°	4590.3	4653.6	4709.0	4765.4	4829.8	4886.2	4952.5	4988.1	5003.0	4966.3
7.5°	4641.7	4733.8	4824.8	4915.9	5014.8	5091.1	5183.1	5232.6	5264.3	5234.6
10°	4757.5	4887.2	5010.9	5117.8	5212.7	5289.0	5368.2	5415.7	5445.4	5409.7
12.5°	4900.0	5062.3	5209.8	5325.6	5408.7	5457.3	5507.7	5533.5	5553.3	5520.5
15°	5047.5	5234.6	5392.9	5495.9	5537.4	5565.1	5578.0	5578.0	5586.9	5549.3
17.5°	5218.7	5407.8	5557.2	5617.6	5626.5	5600.7	5581.0	5555.2	5537.4	5500.8
20°	5391.9	5576.0	5703.7	5703.7	5629.5	5546.3	5466.1	5411.7	5383.0	5345.4
22.5°	5573.0	5742.3	5811.6	5712.6	5524.5	5370.1	5262.2	5179.2	5150.4	5115.8
25°	5750.2	5902.6	5869.0	5610.7	5322.7	5091.1	4946.5	4866.4	4827.8	4802.1
27.5°	5941.2	6052.0	5851.1	5412.7	5001.0	4753.6	4594.3	4486.4	4433.9	4402.2
30°	6192.6	6200.5	5753.2	5096.0	4621.9	4331.9	4162.7	4047.9	4017.2	3992.4
32.5°	6483.6	6338.1	5573.0	4711.0	4188.4	3881.6	3719.3	3653.0	3608.5	3596.6
35°	6927.9	6476.7	5330.6	4313.2	3736.2	3464.9	3325.4	3253.1	3190.8	3169.0
37.5°	7500.0	6597.4	5009.9	3874.7	3341.2	3106.7	2986.0	2873.1	2769.2	2746.5
40°	8168.0	6709.2	4636.8	3498.6	3019.6	2833.5	2694.0	2533.6	2381.3	2357.5
42.5°	8875.7	6782.4	4259.7	3138.3	2781.1	2613.8	2425.7	2237.7	2103.1	2064.5
45°	9609.1	6769.6	3859.9	2832.5	2594.0	2410.9	2208.1	2036.8	1912.1	1889.4
47.5°	10254.3	6680.5	3504.6	2572.2	2411.9	2237.7	2042.8	1891.3	1785.4	1762.7
50°	10930.3	6540.0	3198.7	2343.6	2248.6	2103.1	1917.1	1787.4	1689.4	1668.7
52.5°	11541.0	6402.4	2845.4	2139.8	2113.0	1999.2	1839.9	1744.8	1624.1	1596.4
55°	12156.5	6279.7	2488.1	1952.7	2003.1	1927.0	1815.2	1762.7	1632.0	1590.4
57.5°	12812.7	6113.4	2159.5	1803.2	1911.1	1921.0	1855.7	1808.2	1683.5	1625.1
60°	13431.3	5788.8	1885.4	1692.4	1872.5	1980.4	1862.6	1704.3	1622.1	1569.7
62.5°	13899.4	5189.0	1692.4	1633.0	1898.2	1965.6	1739.9	1575.6	1537.0	1508.3
65°	14018.2	4241.9	1525.1	1573.6	1816.1	1841.9	1625.1	1479.6	1485.6	1461.8
67.5°	13613.4	3168.0	1380.7	1454.9	1659.7	1707.3	1521.2	1389.5	1441.0	1416.3
70°	12526.7	2223.9	1248.0	1325.2	1520.2	1588.5	1421.2	1297.5	1335.1	1300.5
71°	11920.0	1924.0	1196.6	1268.8	1463.7	1540.9	1378.6	1260.9	1278.7	1235.2
72.5°	10616.5	1574.6	1120.3	1182.7	1375.7	1467.7	1321.2	1194.5	1177.8	1149.1
75°	7637.5	1188.7	988.7	1035.2	1228.2	1341.0	1199.6	1084.7	1036.2	1019.4
77.5°	4573.4	921.4	845.2	878.8	1089.7	1201.5	1076.8	966.0	923.4	906.6
80°	2093.2	722.5	694.8	721.5	930.4	1062.0	962.0	856.1	803.7	781.9
82.5°	857.1	548.3	529.5	563.1	773.9	906.6	825.4	723.5	693.8	619.6
85°	396.9	360.3	356.3	384.0	544.3	667.0	605.7	529.5	452.3	438.4
87.5°	180.1	168.3	144.5	178.1	276.2	380.1	348.4	297.9	184.1	176.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)