

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: P622848

Luminaire Tested: **PRV-M-PA6D-8540-U-T2U**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622848
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-8)
Test Lab: INNOVATION CENTER
Issue Date: 9/29/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-M-PA6D-8540-U-T2U
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 85 CRI, 4000K LIGHT ENGINES AND TYPE II U OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52859.5 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 544
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

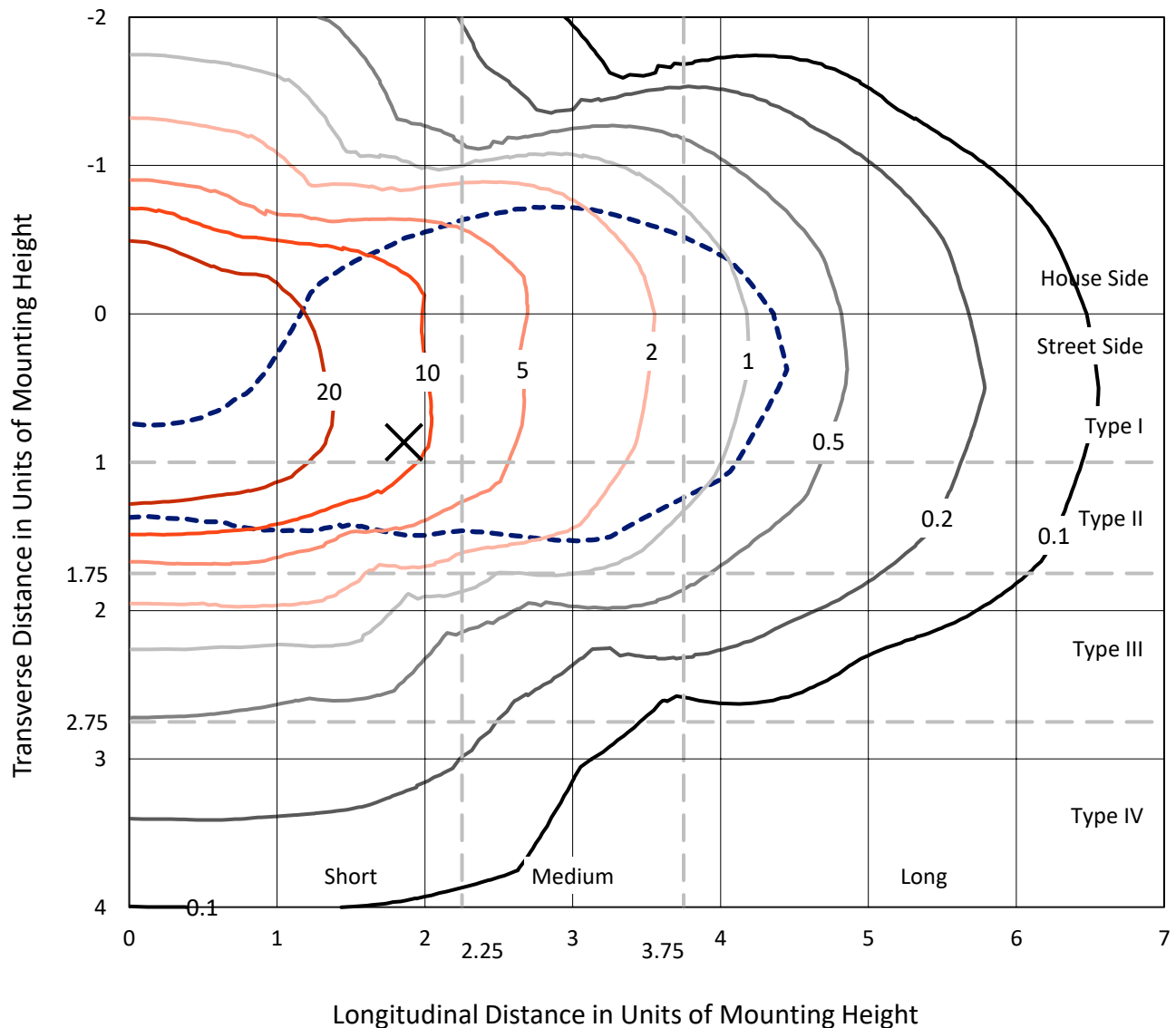


REPORT NUMBER: P622848

CATALOG NUMBER: PRV-M-PA6D-8540-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

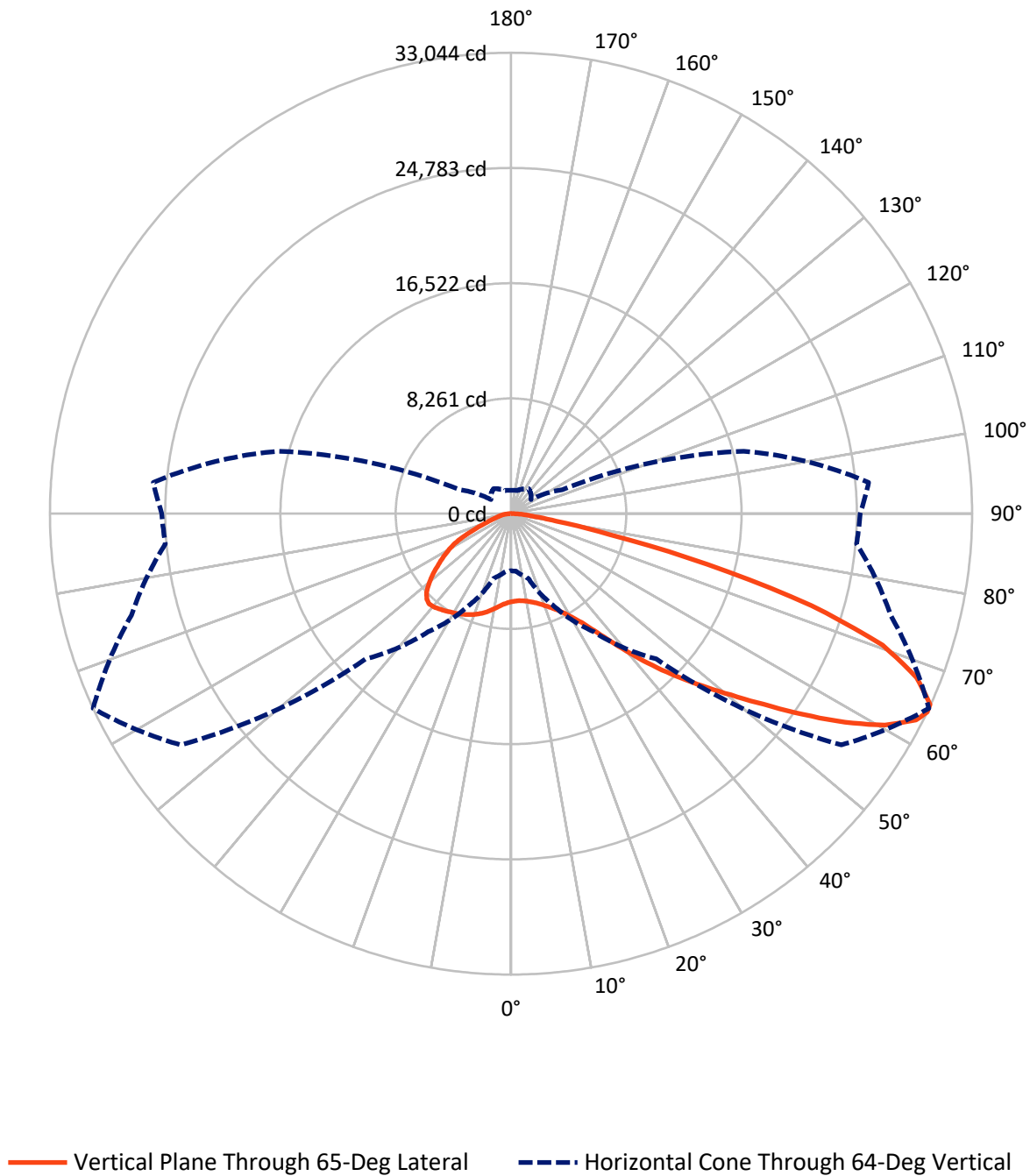


Based on 15 foot mounting height. Maximum calculated value = 38.7 fc
Type II - Short - N/A

REPORT NUMBER: P622848

CATALOG NUMBER: PRV-M-PA6D-8540-U-T2U

Luminous Intensity Polar Plot



REPORT NUMBER: P622848

CATALOG NUMBER: PRV-M-PA6D-8540-U-T2U

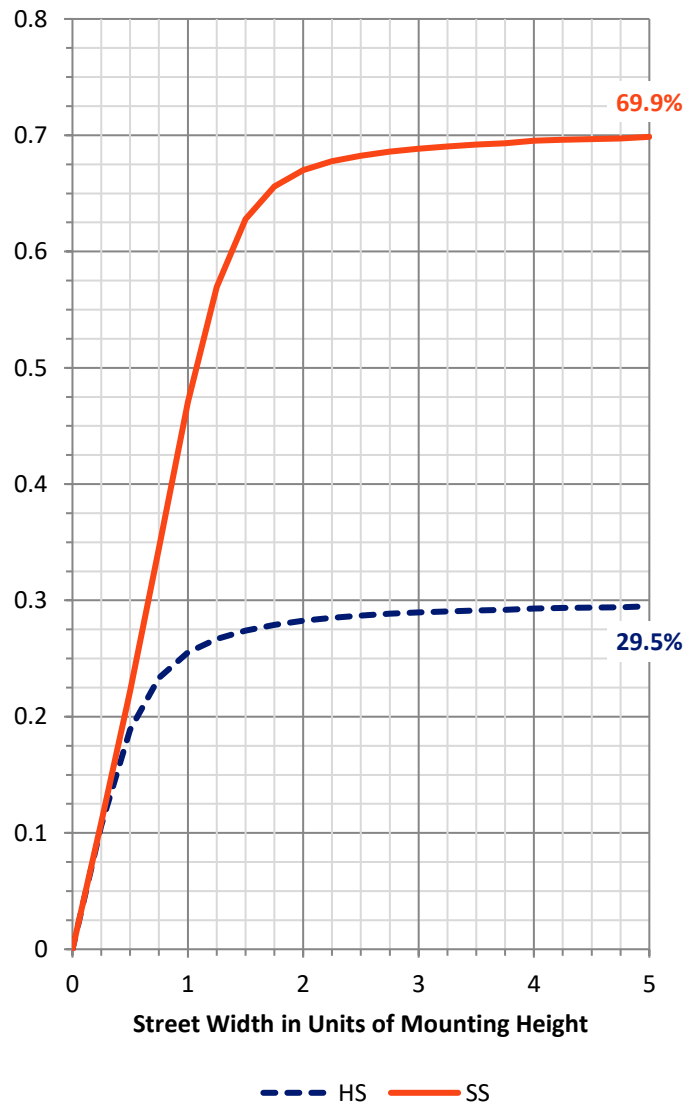
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15762.4	0.0	15762.4
	% Fixture	29.8	0.0	29.8
Street Side	Lumens	37097.1	0.0	37097.1
	% Fixture	70.2	0.0	70.2
Total	Lumens	52859.5	0.0	52859.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	622.4	1.2
10°-20°	1980.1	3.7
20°-30°	3558.2	6.7
30°-40°	5799.7	11.0
40°-50°	9668.6	18.3
50°-60°	12579.5	23.8
60°-70°	11347.5	21.5
70°-80°	6342.1	12.0
80°-90°	961.5	1.8
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°	52859.5	100.0
0°-180°	52859.5	100.0

Coefficient of Utilization



REPORT NUMBER: P622848

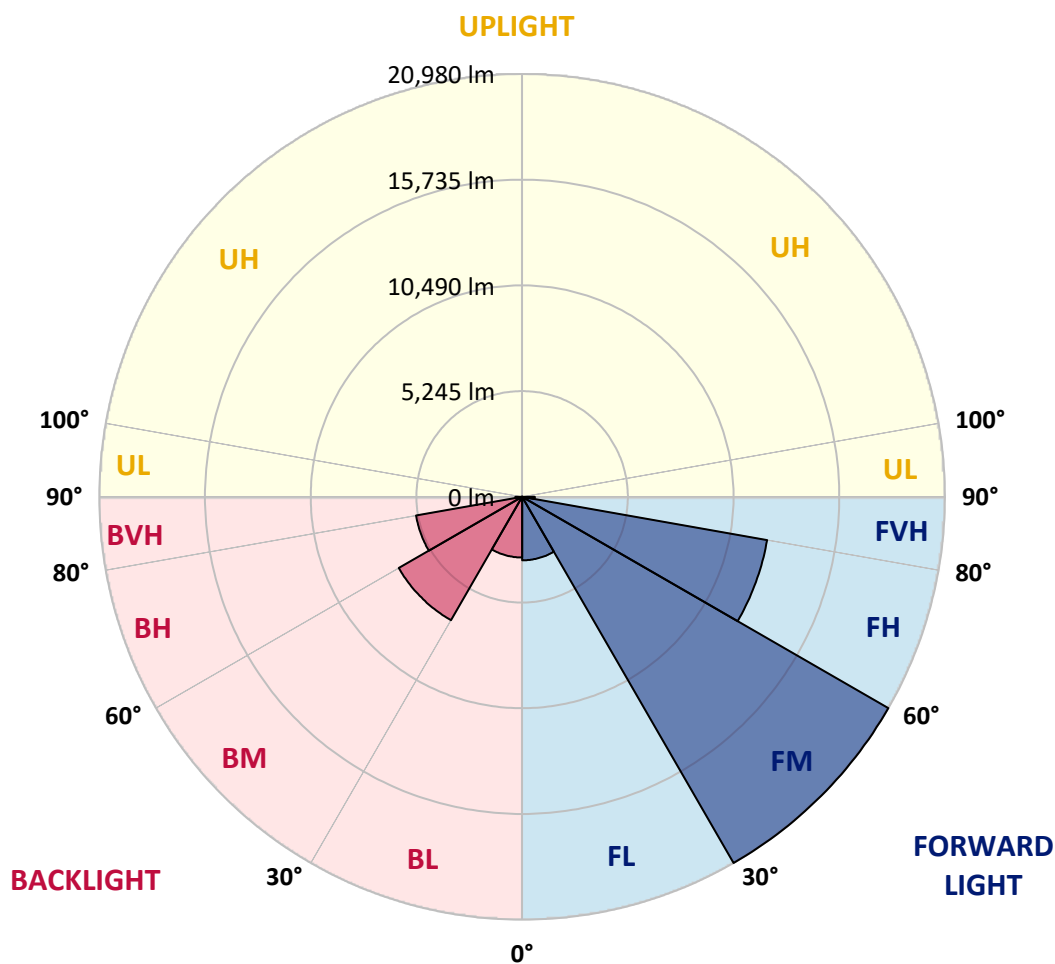
CATALOG NUMBER: PRV-M-PA6D-8540-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3149.1	6.0			
FM	(30°-60°)	20979.7	39.7			
FH	(60°-80°)	12343.3	23.4			G5
FVH	(80°-90°)	625.1	1.2			G4/750
BL	(0°-30°)	3011.6	5.7	B4/5000		
BM	(30°-60°)	7068.1	13.4	B4/8500		
BH	(60°-80°)	5346.4	10.1	B5		G5
BVH	(80°-90°)	336.4	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Short



REPORT NUMBER: P622848

CATALOG NUMBER: PRV-M-PA6D-8540-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6307.8	6307.8	6307.8	6307.8	6307.8	6307.8	6307.8	6307.8	6307.8	6307.8	6307.8
2.5°	6302.7	6252.9	6255.5	6255.5	6256.7	6259.2	6268.2	6274.6	6281.0	6292.5	6316.8
5°	6268.2	6222.2	6228.6	6232.4	6240.1	6249.0	6259.2	6264.4	6274.6	6298.8	6332.1
7.5°	6242.6	6196.7	6205.6	6212.0	6224.8	6246.5	6278.4	6304.0	6319.3	6352.6	6397.3
10°	6284.8	6232.4	6241.4	6238.8	6245.2	6279.7	6329.5	6383.2	6404.9	6448.3	6504.5
12.5°	6398.5	6346.1	6348.7	6329.5	6336.0	6374.2	6430.5	6496.9	6522.5	6568.4	6626.0
15°	6576.1	6504.5	6505.9	6490.5	6485.4	6522.5	6569.8	6631.1	6656.6	6703.9	6757.5
17.5°	6877.6	6811.2	6780.5	6714.1	6691.1	6723.1	6767.8	6818.9	6841.9	6861.0	6909.6
20°	7401.5	7319.7	7252.0	7123.0	7005.4	6979.9	7001.6	7048.9	7048.9	7038.6	7079.5
22.5°	8150.2	8073.5	7972.6	7746.5	7471.8	7333.7	7287.8	7317.1	7294.2	7249.5	7258.4
25°	9062.4	8904.0	8818.4	8542.5	8109.3	7818.0	7654.5	7634.0	7608.5	7535.7	7515.2
27.5°	10190.6	10042.4	9826.5	9440.6	8873.3	8444.0	8140.0	8045.4	7986.7	7851.2	7792.4
30°	11514.2	11288.1	11023.6	10483.2	9780.5	9205.6	8760.9	8593.6	8454.3	8216.6	8109.3
32.5°	13004.1	12751.1	12434.2	11732.8	10875.5	10135.7	9588.9	9303.9	9088.0	8778.8	8578.2
35°	14992.1	14749.3	14123.3	13317.0	12180.0	11260.0	10634.0	10292.8	10028.4	9615.7	9346.1
37.5°	17501.4	17061.9	16239.0	15252.7	13816.7	12656.5	11883.5	11602.4	11286.9	10748.9	10375.8
40°	19637.6	19194.3	18565.7	17451.6	15917.1	14514.2	13517.6	13149.7	12765.1	12043.2	11626.7
42.5°	21278.2	20834.8	20371.0	19627.5	18413.7	16985.2	15354.9	14875.8	14329.0	13427.0	12876.3
45°	22265.8	21770.1	21535.0	21395.7	20977.9	20997.1	17556.3	16633.9	15890.3	14875.8	14198.6
47.5°	22553.3	22026.9	22075.4	22503.4	23148.7	23889.7	20133.4	18436.7	17473.3	16233.9	15568.3
50°	21625.7	21237.3	21770.1	23065.6	24853.0	26130.7	22983.9	20423.4	19083.1	17730.1	16926.4
52.5°	18719.0	18711.4	19890.6	22448.5	25875.2	28136.6	25907.1	22704.0	20763.3	19189.2	18348.5
55°	14800.4	14796.6	16549.6	19918.7	25475.3	28893.0	28365.3	25398.6	22504.8	20604.8	19822.9
57.5°	10384.9	10736.2	12761.3	15906.9	22567.3	28344.9	29876.9	28218.4	24214.2	21988.5	21243.7
60°	6781.8	6924.9	9002.4	12417.6	17704.6	25426.8	30511.8	30784.0	25862.4	23195.9	22688.7
62.5°	4833.4	4864.1	5836.3	9277.1	12614.4	19752.7	29970.1	32586.7	27385.3	24289.6	24173.3
64°	4093.6	4140.9	4795.1	7332.5	10335.0	14731.4	28900.7	33044.2	28168.6	24862.0	25025.5
65°	3703.9	3748.7	4276.4	6180.1	9214.5	11925.7	27596.2	33004.5	28680.9	25198.0	25550.6
67.5°	3037.0	3040.9	3324.5	4244.4	6872.5	6977.3	21135.0	31358.9	29304.4	25706.5	26557.5
70°	2716.3	2730.4	2883.7	3214.6	5131.1	4667.3	11950.0	28260.6	28629.8	25494.5	26644.3
72.5°	2223.1	2264.0	2513.2	2777.6	3682.2	3270.8	5594.8	22513.7	25739.7	24271.7	25217.2
75°	1732.5	1761.9	2002.1	2450.6	2642.2	2445.5	3100.9	14541.1	20629.1	21528.6	21509.4
77.5°	1304.5	1333.8	1539.6	1939.5	2350.9	1816.8	2090.2	7226.5	14256.2	16282.5	15490.3
80°	986.3	985.1	1166.5	1461.6	1919.1	1363.3	1411.8	3275.9	8148.9	9739.6	8598.7
82.5°	679.7	693.7	857.3	1120.5	1328.8	1312.2	988.9	1695.4	3604.3	4098.8	3945.4
85°	476.5	470.2	606.9	738.5	876.5	949.3	661.8	953.1	1560.0	816.4	727.0
87.5°	265.8	264.5	360.3	407.6	437.0	383.3	394.8	370.5	613.2	322.0	206.9
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: P622848

CATALOG NUMBER: PRV-M-PA6D-8540-U-T2U

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6307.8	6307.8	6307.8	6307.8	6307.8	6307.8	6307.8	6307.8	6307.8	6307.8
2.5°	6310.4	6347.4	6380.7	6411.3	6421.5	6450.9	6484.1	6491.8	6500.7	6433.0
5°	6342.3	6416.5	6498.2	6565.9	6626.0	6689.8	6767.8	6783.1	6816.3	6730.7
7.5°	6431.7	6541.7	6674.5	6787.0	6887.9	6979.9	7079.5	7116.6	7138.3	7055.2
10°	6551.8	6710.3	6876.4	7046.3	7169.0	7271.2	7350.4	7351.7	7374.7	7295.4
12.5°	6687.3	6882.7	7094.8	7282.7	7406.6	7459.0	7474.3	7429.6	7430.9	7345.2
15°	6822.7	7051.4	7308.2	7487.1	7544.6	7512.7	7471.8	7413.0	7402.8	7312.0
17.5°	6987.5	7231.6	7487.1	7627.7	7579.0	7484.5	7434.7	7364.4	7356.8	7262.2
20°	7147.2	7415.6	7658.3	7699.2	7536.9	7400.2	7330.0	7225.1	7206.0	7107.6
22.5°	7310.8	7584.2	7810.3	7705.6	7437.2	7223.9	7092.3	6950.5	6918.5	6831.7
25°	7522.8	7758.0	7940.6	7654.5	7236.6	6898.1	6700.1	6551.8	6535.2	6467.5
27.5°	7802.7	7990.5	8071.0	7542.0	6913.4	6448.3	6203.0	6067.6	6086.8	6002.5
30°	8068.4	8239.7	8189.8	7344.0	6450.9	5865.8	5657.5	5556.6	5589.8	5506.7
32.5°	8444.0	8539.9	8301.0	7055.2	5915.6	5312.5	5136.2	4994.4	4963.8	4944.6
35°	9132.8	9097.0	8430.0	6716.7	5377.6	4796.3	4540.8	4303.1	4246.9	4153.7
37.5°	10076.9	9899.3	8546.3	6350.0	4869.2	4271.2	3926.3	3656.7	3564.7	3491.9
40°	11171.8	10834.5	8672.7	5909.1	4396.5	3749.9	3434.3	3150.7	3051.0	3021.7
42.5°	12367.7	11760.9	8736.6	5310.0	3967.1	3422.9	3060.0	2801.9	2689.4	2634.6
45°	13633.9	12641.1	8612.7	4649.4	3632.4	3180.1	2787.9	2469.7	2342.0	2325.4
47.5°	14880.9	13342.6	8266.4	4071.9	3390.9	3000.0	2483.8	2274.2	2198.8	2174.5
50°	16285.1	13925.2	7737.5	3565.9	3177.6	2724.0	2335.5	2182.2	2120.9	2104.3
52.5°	17757.0	14414.6	7121.7	3177.6	2914.3	2560.4	2260.2	2095.4	2049.3	2035.3
55°	19319.5	14887.3	6456.0	2823.7	2598.8	2488.9	2191.2	2022.6	1990.6	1982.9
57.5°	21062.2	15435.4	5833.8	2437.8	2405.8	2419.9	2140.1	1971.4	1947.2	1942.1
60°	22849.7	16122.8	5239.7	2123.5	2253.8	2353.5	2087.7	1905.0	1860.3	1844.9
62.5°	24703.6	16881.7	4548.4	1874.3	2101.7	2264.0	2008.5	1797.7	1755.5	1735.0
64°	25732.1	17277.8	4046.4	1749.1	2014.9	2191.2	1939.5	1715.9	1685.3	1664.8
65°	26305.7	17496.3	3641.3	1677.6	1952.3	2135.0	1884.5	1654.6	1641.8	1618.8
67.5°	27120.9	17575.5	2722.7	1525.5	1774.7	1959.9	1719.7	1515.3	1547.2	1505.1
70°	26519.1	16824.2	1962.5	1385.0	1577.9	1759.3	1569.0	1369.6	1409.2	1340.3
72.5°	24164.4	14574.3	1482.1	1232.9	1377.3	1553.6	1395.2	1207.4	1178.0	1130.7
75°	19408.9	10837.1	1174.2	1087.3	1186.9	1341.5	1218.9	1033.6	969.7	946.7
77.5°	13673.5	6407.4	949.3	931.4	1008.1	1118.0	1042.6	879.0	796.0	790.9
80°	7451.3	2818.5	774.2	767.9	815.2	913.5	875.2	728.3	638.8	617.1
82.5°	2818.5	1207.4	587.7	594.1	628.6	706.6	684.8	554.5	509.8	422.9
85°	718.0	595.4	382.0	384.6	378.2	465.1	457.4	361.6	308.0	282.3
87.5°	287.4	222.3	143.1	155.9	148.2	214.6	218.5	171.2	104.8	90.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)