

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: P622771

Luminaire Tested: **PRV-M-PA6C-8540-U-T4W**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622771
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-12)
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-T4W
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 85 CRI, 4000K LIGHT ENGINES AND TYPE IV OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48013.6 lumens
Efficiency: N/A
Efficacy: 105.0 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): 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

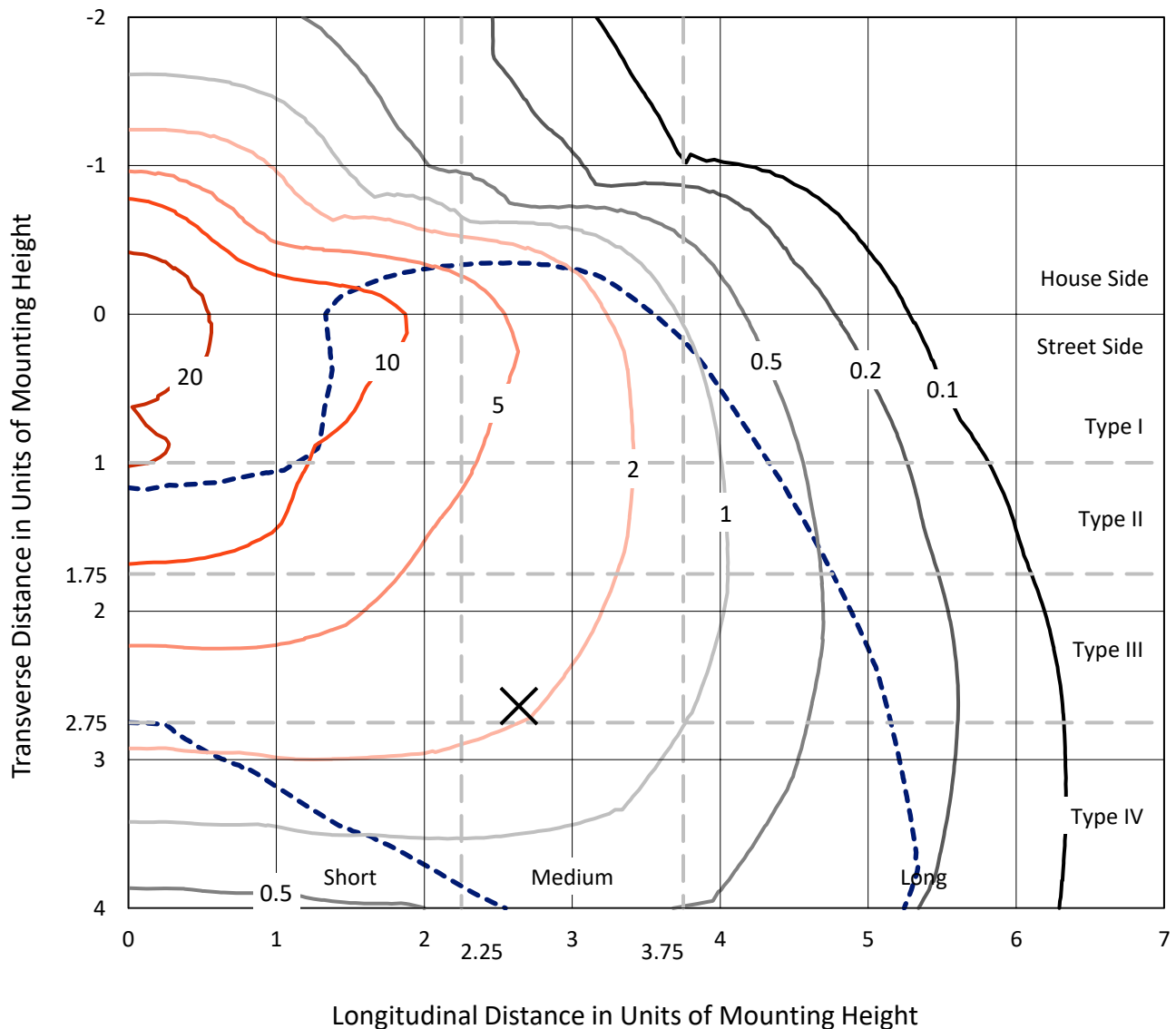


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

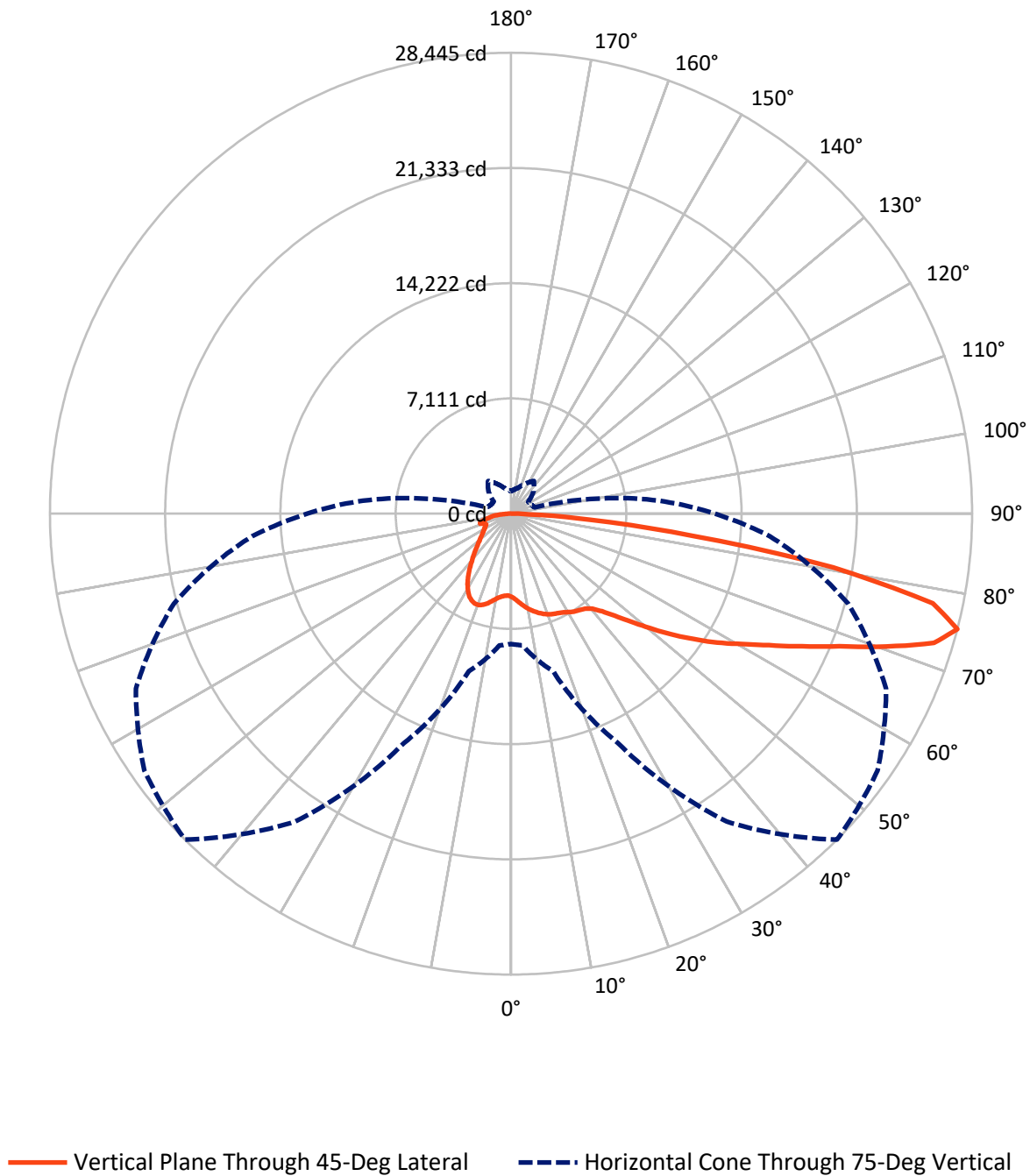


Based on 15 foot mounting height. Maximum calculated value = 28.1 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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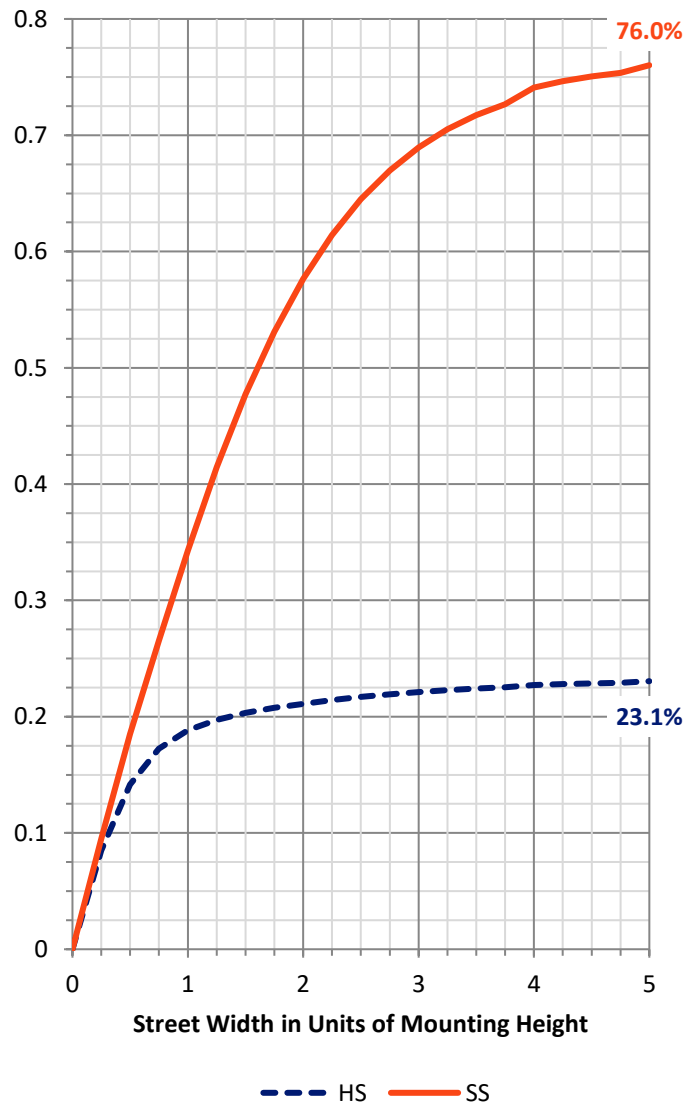
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11298.4	0.0	11298.4
	% Fixture	23.5	0.0	23.5
Street Side	Lumens	36715.1	0.0	36715.1
	% Fixture	76.5	0.0	76.5
Total	Lumens	48013.6	0.0	48013.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.0	1.1
10°-20°	1710.1	3.6
20°-30°	2943.2	6.1
30°-40°	4055.3	8.4
40°-50°	5649.4	11.8
50°-60°	8457.9	17.6
60°-70°	11988.4	25.0
70°-80°	10781.2	22.5
80°-90°	1911.0	4.0
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°	48013.6	100.0
0°-180°	48013.6	100.0

Coefficient of Utilization



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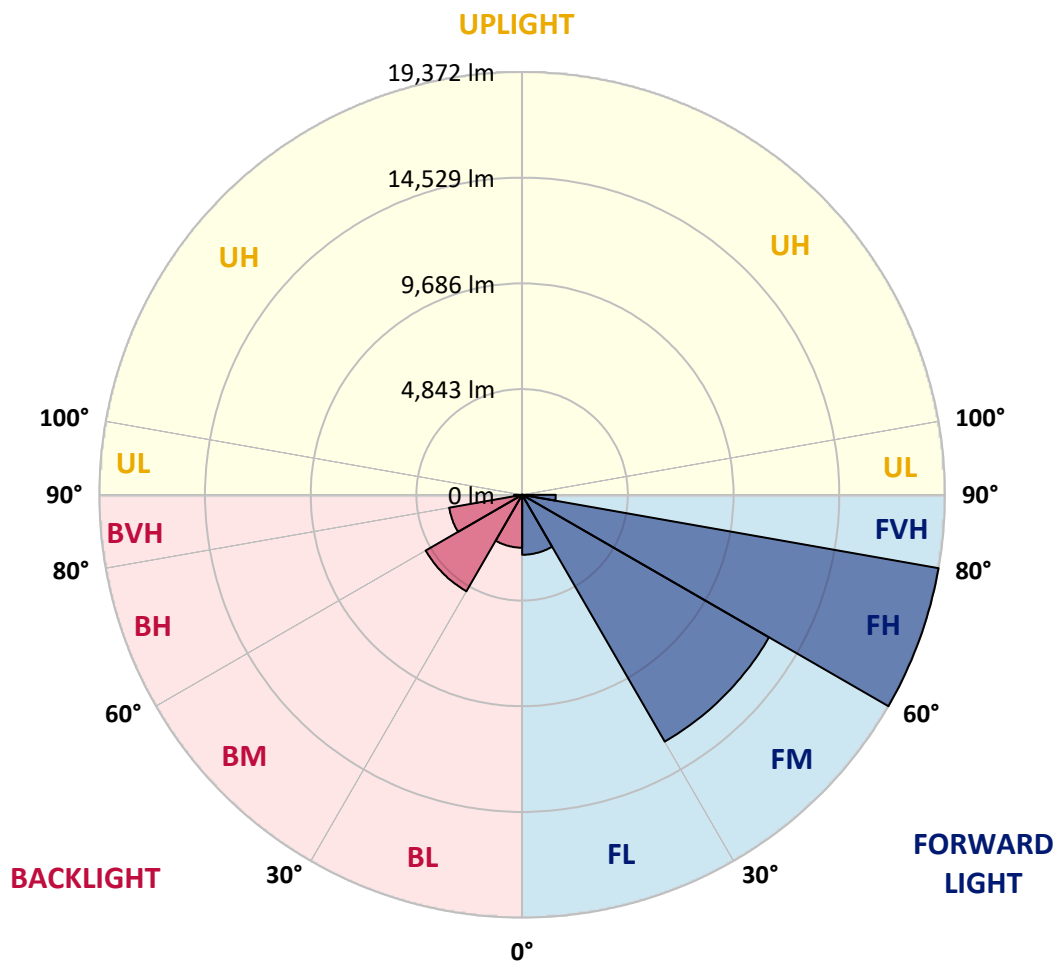
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2746.3	5.7			
FM	(30°-60°)	13056.6	27.2			
FH	(60°-80°)	19372.1	40.3			G5
FVH	(80°-90°)	1540.2	3.2			G5
BL	(0°-30°)	2424.1	5.0	B3/2500		
BM	(30°-60°)	5106.0	10.6	B4/8500		
BH	(60°-80°)	3397.5	7.1	B4/5000		G4/5000
BVH	(80°-90°)	370.9	0.8			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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5128.0	5128.0	5128.0	5128.0	5128.0	5128.0	5128.0	5128.0	5128.0	5128.0	5128.0
2.5°	5415.8	5401.8	5393.7	5350.6	5317.9	5299.3	5255.0	5222.4	5177.0	5142.0	5131.5
5°	5795.7	5768.8	5746.8	5674.5	5597.6	5521.9	5414.6	5321.4	5220.0	5143.1	5117.5
7.5°	6168.6	6147.6	6102.1	5991.4	5877.2	5753.7	5598.8	5461.3	5317.9	5210.7	5169.9
10°	6495.9	6469.1	6391.1	6265.3	6117.3	5982.1	5807.3	5650.0	5484.5	5354.1	5301.6
12.5°	6777.9	6738.3	6639.2	6483.1	6307.1	6168.6	6004.2	5859.7	5678.0	5526.5	5463.5
15°	7013.3	6967.8	6865.3	6662.5	6464.4	6349.1	6205.8	6069.5	5881.9	5706.0	5634.9
17.5°	7184.6	7145.0	7029.6	6791.9	6591.5	6502.9	6387.6	6266.4	6083.4	5888.9	5821.3
20°	7249.8	7202.0	7101.8	6855.9	6677.7	6636.9	6548.4	6445.8	6274.6	6082.3	6008.9
22.5°	7191.5	7151.9	7071.5	6846.6	6713.8	6719.6	6666.1	6597.3	6450.5	6260.6	6197.7
25°	7104.2	7062.2	7001.7	6810.5	6740.6	6793.1	6773.3	6739.4	6631.1	6448.2	6384.1
27.5°	7069.2	7020.3	6973.6	6812.9	6795.4	6899.1	6907.2	6908.4	6817.5	6632.2	6584.5
30°	7170.6	7115.8	7050.6	6881.6	6894.4	7047.1	7097.2	7073.9	6976.0	6809.4	6767.4
32.5°	7479.4	7421.1	7303.4	7045.9	7015.6	7202.0	7262.6	7193.9	7101.8	6969.0	6952.7
35°	8175.0	8085.3	7849.9	7388.5	7172.9	7297.6	7382.7	7332.6	7257.9	7178.7	7197.4
37.5°	9312.2	9188.7	8810.0	8018.9	7470.1	7432.8	7551.6	7552.7	7484.0	7451.4	7501.5
40°	10651.0	10521.6	10127.9	9032.5	8046.8	7718.2	7826.6	7882.5	7820.8	7842.9	7916.3
42.5°	11952.5	11818.5	11536.6	10303.8	8824.0	8230.9	8251.9	8389.4	8327.6	8402.2	8531.5
45°	12995.4	12882.3	12769.3	11536.6	9899.5	8983.6	8833.3	9075.7	9053.5	9199.2	9379.8
47.5°	13731.8	13615.3	13629.2	12708.7	11181.2	9944.9	9581.3	9983.3	9996.2	10316.6	10515.8
50°	14324.8	14211.8	14249.1	13704.9	12471.0	11099.6	10525.2	11055.3	11263.9	11749.8	11988.7
52.5°	14996.0	14899.3	14980.8	14611.5	13829.7	12349.9	11622.8	12351.0	12675.0	13438.2	13681.7
55°	15752.2	15668.3	15925.8	15699.8	15296.6	13659.5	12842.7	13818.0	14222.3	15400.3	15710.3
57.5°	16359.3	16269.6	16813.7	17033.9	16855.6	15004.2	14196.7	15344.4	15754.5	17589.7	17889.1
60°	17059.5	16930.2	17611.9	18297.0	18504.4	16326.6	15720.8	17019.9	17419.6	19964.4	20052.9
62.5°	17486.0	17387.0	18304.0	19422.5	19984.2	17874.0	17462.7	18689.7	19122.0	22419.4	21994.2
65°	16891.7	16940.7	18685.0	20322.1	21326.5	19731.4	19379.4	20459.6	20902.3	24610.0	23301.5
67.5°	15666.0	15759.2	18248.0	20910.5	22699.1	21850.8	21397.5	22323.9	22626.8	25894.0	23521.7
70°	14218.8	14303.8	16847.5	21022.4	23984.3	24552.8	23879.4	24345.5	23959.8	25421.0	21913.7
72.5°	12048.1	12274.1	14237.4	19576.3	24542.4	27292.2	26550.0	25898.7	23884.1	22170.1	18076.7
75°	8044.5	8157.5	10073.1	15613.6	23195.4	28444.6	27617.3	25529.3	21543.2	16029.5	12571.2
77.5°	3555.0	3909.2	5236.4	9153.7	18123.4	26607.1	25339.4	21382.4	14941.2	8808.8	6243.1
80°	1302.7	1378.4	2043.7	3788.0	10512.3	20148.5	18379.7	13635.1	7552.7	3342.9	2332.7
82.5°	728.3	763.2	1111.6	1733.8	4719.0	11244.1	10225.7	5879.5	2604.2	1098.8	979.9
85°	402.0	419.5	681.6	1088.3	2294.3	4885.6	3892.9	1993.7	1054.5	440.4	417.1
87.5°	177.1	207.4	367.1	551.2	1046.3	1117.4	968.3	778.4	491.7	166.6	146.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5128.0	5128.0	5128.0	5128.0	5128.0	5128.0	5128.0	5128.0	5128.0	5128.0
2.5°	5119.9	5102.3	5091.8	5068.6	5054.6	5059.3	5061.5	5069.8	5083.7	5053.4
5°	5098.9	5074.4	5072.0	5072.0	5088.4	5114.0	5138.5	5158.3	5187.5	5149.0
7.5°	5144.3	5117.5	5118.7	5135.0	5167.6	5216.6	5270.1	5306.3	5348.2	5302.8
10°	5278.3	5245.7	5256.2	5269.0	5305.1	5362.2	5433.3	5496.2	5547.5	5513.7
12.5°	5441.5	5412.3	5419.3	5449.6	5493.8	5547.5	5612.7	5671.0	5721.1	5676.8
15°	5608.1	5595.2	5608.1	5657.0	5710.6	5736.3	5743.2	5771.2	5805.0	5767.7
17.5°	5803.8	5788.6	5802.7	5866.7	5879.5	5853.9	5802.7	5791.0	5810.8	5777.0
20°	5987.9	5980.9	5992.5	6025.2	5982.1	5888.9	5803.8	5770.0	5795.7	5761.9
22.5°	6186.0	6146.4	6134.7	6097.5	5978.6	5860.9	5770.0	5739.7	5777.0	5752.5
25°	6378.2	6283.9	6196.5	6054.3	5878.4	5773.5	5704.8	5678.0	5715.3	5704.8
27.5°	6557.7	6393.4	6180.1	5890.0	5694.3	5603.4	5573.1	5564.9	5612.7	5606.9
30°	6743.0	6480.8	6075.3	5639.6	5399.5	5328.4	5372.7	5426.3	5484.5	5495.0
32.5°	6929.4	6542.5	5892.4	5316.7	5055.8	4994.0	5117.5	5239.8	5319.1	5347.0
35°	7153.1	6586.8	5644.2	4938.1	4648.0	4631.6	4781.9	4941.6	5053.4	5074.4
37.5°	7429.3	6612.4	5340.1	4538.4	4223.8	4214.5	4352.0	4497.6	4592.0	4639.8
40°	7812.6	6617.1	4953.3	4093.3	3799.7	3786.9	3841.6	3919.7	3969.8	4023.4
42.5°	8356.7	6600.8	4558.2	3643.5	3431.5	3381.4	3358.1	3344.1	3264.9	3280.0
45°	9098.9	6581.0	4143.4	3252.0	3088.9	2979.4	2908.3	2804.6	2648.5	2646.1
47.5°	10047.5	6606.6	3772.9	2914.2	2795.3	2672.9	2534.3	2372.3	2203.4	2194.0
50°	11161.4	6715.0	3397.7	2622.8	2541.3	2423.6	2265.1	2071.7	1909.7	1894.6
52.5°	12437.3	6840.8	3024.8	2370.0	2346.7	2234.8	2061.2	1865.5	1738.5	1719.9
55°	13940.3	7066.9	2670.6	2160.3	2182.4	2084.5	1912.1	1730.3	1624.3	1613.8
57.5°	15553.0	7270.8	2343.2	1991.3	2042.6	1971.5	1811.9	1646.4	1567.2	1547.4
60°	17281.0	7082.0	2096.2	1845.7	1921.4	1885.3	1726.8	1568.3	1525.2	1514.7
62.5°	18724.6	6310.7	1899.2	1721.0	1817.7	1811.9	1661.5	1534.5	1525.2	1518.2
65°	19480.8	5039.5	1759.4	1616.1	1733.8	1743.1	1651.1	1547.4	1569.5	1577.7
67.5°	19148.7	3659.9	1665.0	1531.1	1663.9	1836.4	1924.9	1874.8	1877.1	1870.1
70°	17468.5	2577.4	1577.7	1464.7	1758.3	2337.3	2319.9	2061.2	1941.2	1872.5
72.5°	14167.5	1907.4	1478.6	1415.7	2008.8	2610.1	2281.4	1867.8	1682.5	1621.9
75°	9178.2	1510.1	1336.5	1302.7	1966.8	2460.9	2019.3	1642.9	1449.5	1390.1
77.5°	4213.3	1217.6	1157.0	1098.8	1658.1	2122.9	1701.1	1381.9	1217.6	1199.0
80°	1653.4	1005.5	935.7	891.4	1357.4	1832.8	1493.8	1208.3	1060.3	1028.9
82.5°	826.1	794.7	723.6	678.2	1151.2	1654.6	1319.0	1041.7	911.2	854.1
85°	445.1	531.3	504.6	452.1	812.1	1230.4	961.3	729.4	604.7	598.9
87.5°	220.3	242.3	203.9	215.6	416.0	660.7	593.0	457.9	346.1	362.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)