

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: P622767

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

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622767
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-PA6C-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: 48205.4 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - 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



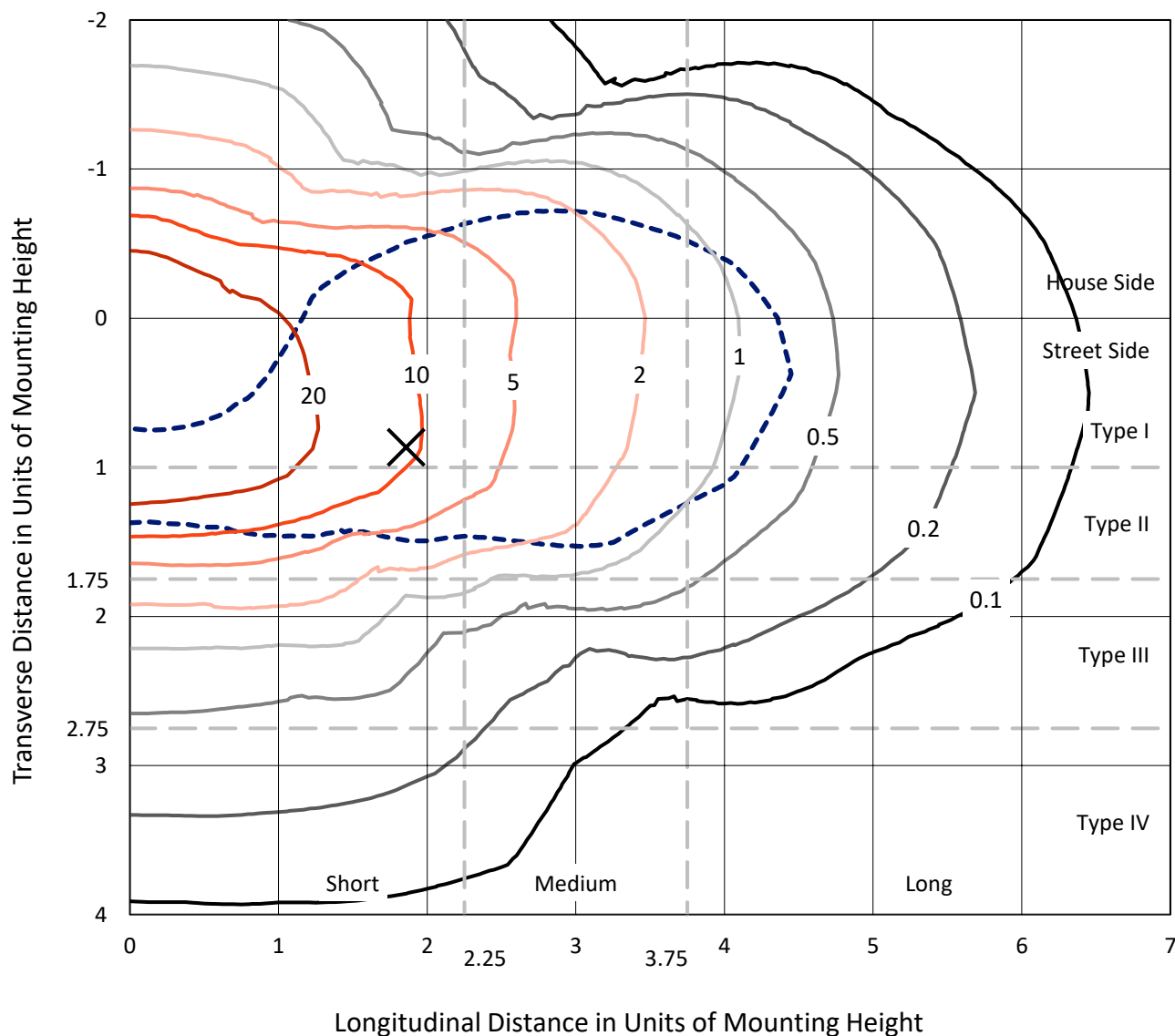
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



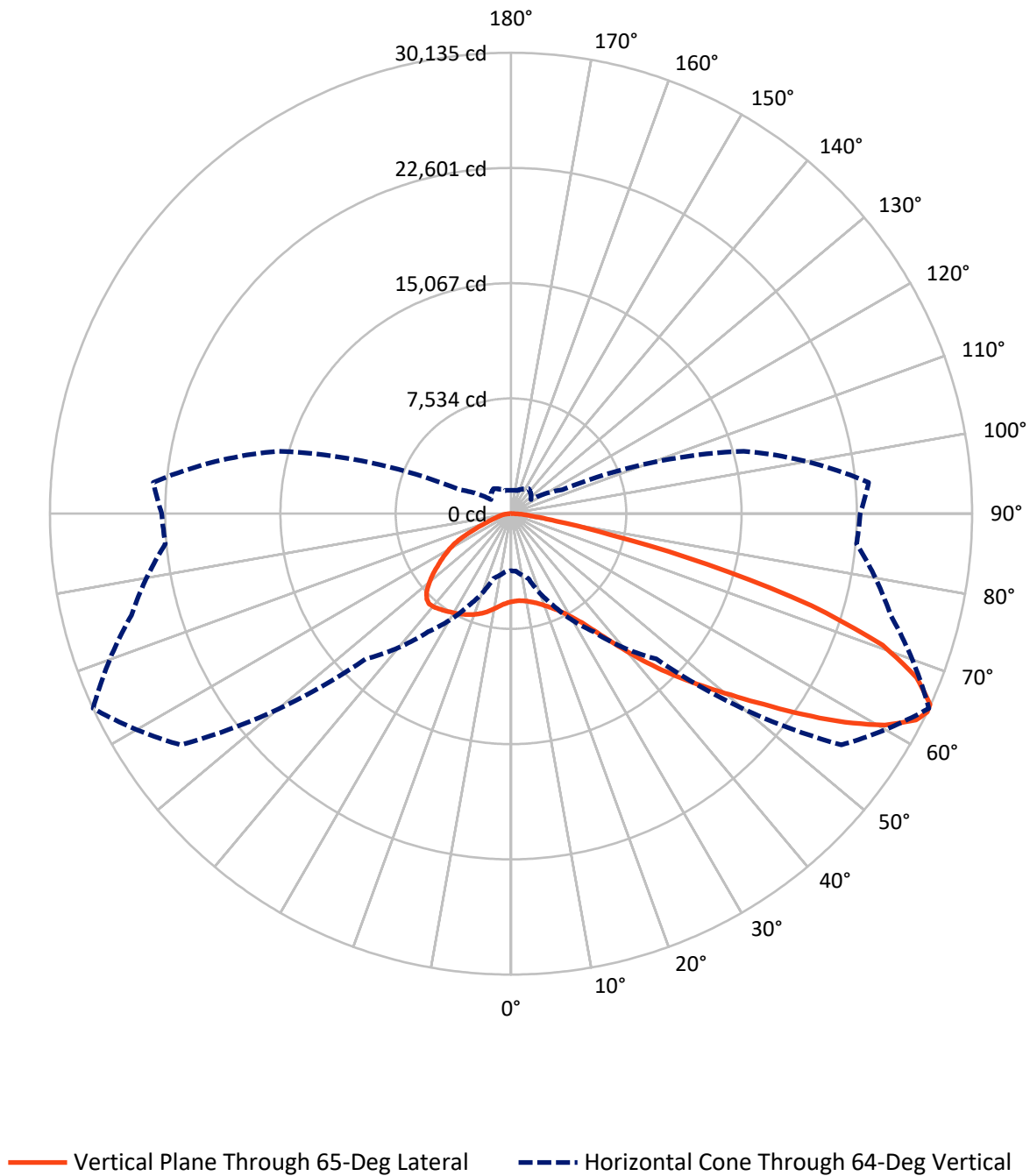
Based on 15 foot mounting height. Maximum calculated value = 35.3 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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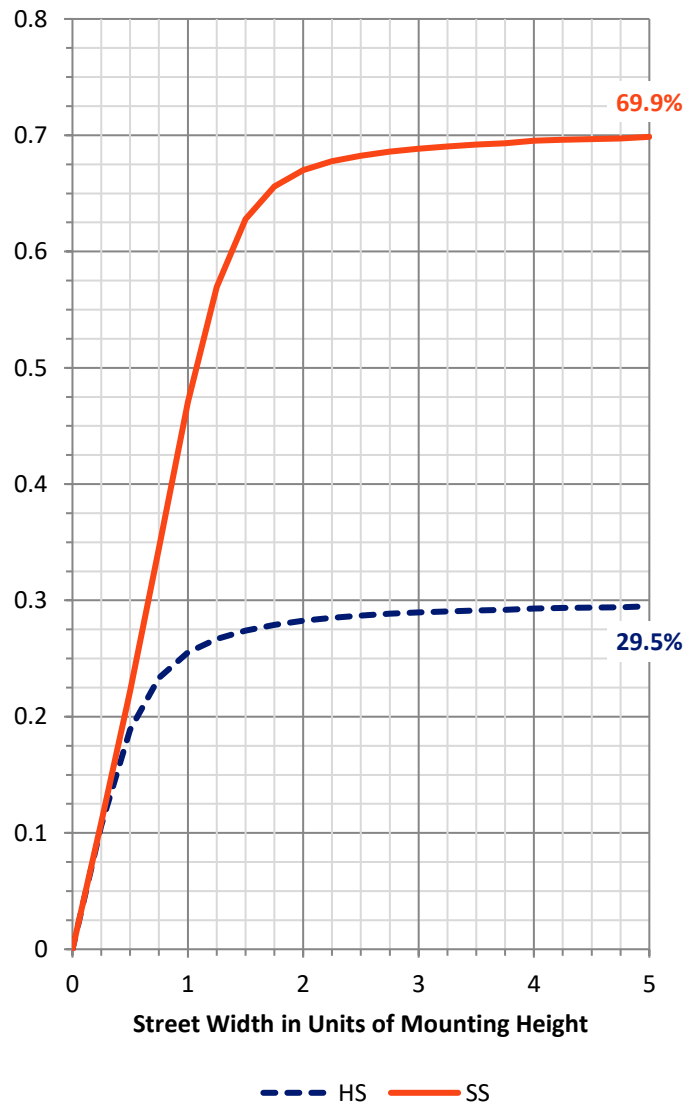
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14374.6	0.0	14374.6
	% Fixture	29.8	0.0	29.8
Street Side	Lumens	33830.8	0.0	33830.8
	% Fixture	70.2	0.0	70.2
Total	Lumens	48205.4	0.0	48205.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	567.6	1.2
10°-20°	1805.8	3.7
20°-30°	3244.9	6.7
30°-40°	5289.0	11.0
40°-50°	8817.3	18.3
50°-60°	11471.9	23.8
60°-70°	10348.4	21.5
70°-80°	5783.7	12.0
80°-90°	876.8	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°	48205.4	100.0
0°-180°	48205.4	100.0

Coefficient of Utilization



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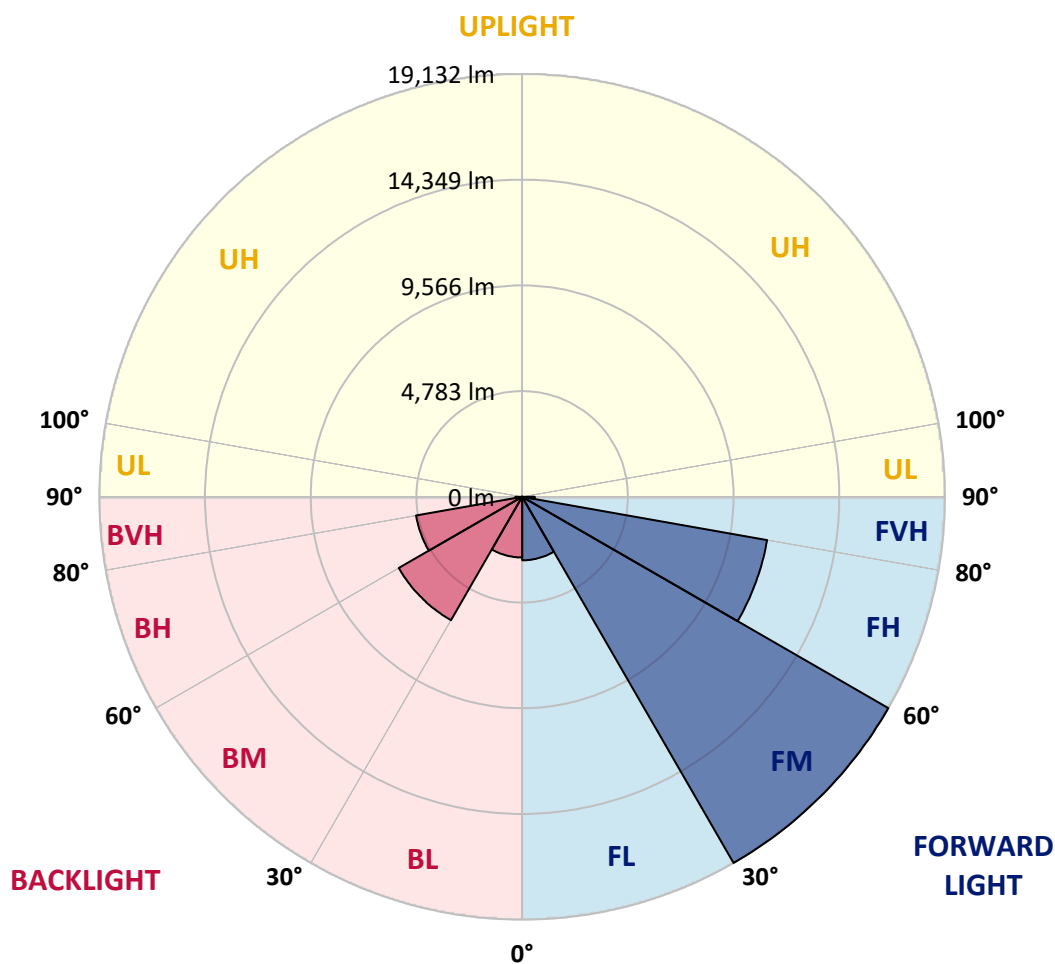
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2871.8	6.0			
FM	(30°-60°)	19132.4	39.7			
FH	(60°-80°)	11256.5	23.4			G4/12000
FVH	(80°-90°)	570.1	1.2			G4/750
BL	(0°-30°)	2746.4	5.7	B4/5000		
BM	(30°-60°)	6445.8	13.4	B4/8500		
BH	(60°-80°)	4875.7	10.1	B4/5000		G4/5000
BVH	(80°-90°)	306.7	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5752.4	5752.4	5752.4	5752.4	5752.4	5752.4	5752.4	5752.4	5752.4	5752.4	5752.4
2.5°	5747.8	5702.4	5704.6	5704.6	5705.8	5708.1	5716.3	5722.2	5728.0	5738.5	5760.6
5°	5716.3	5674.3	5680.2	5683.6	5690.7	5698.8	5708.1	5712.8	5722.2	5744.2	5774.5
7.5°	5693.0	5651.1	5659.2	5665.0	5676.7	5696.5	5725.6	5748.9	5762.9	5793.2	5834.0
10°	5731.5	5683.6	5691.9	5689.5	5695.3	5726.8	5772.2	5821.1	5840.9	5880.6	5931.9
12.5°	5835.2	5787.4	5789.7	5772.2	5778.1	5813.0	5864.3	5924.9	5948.1	5990.1	6042.6
15°	5997.1	5931.9	5933.0	5919.0	5914.4	5948.1	5991.3	6047.2	6070.5	6113.7	6162.5
17.5°	6272.1	6211.5	6183.5	6123.0	6102.0	6131.1	6171.9	6218.5	6239.5	6257.0	6301.2
20°	6749.8	6675.2	6613.5	6495.8	6388.6	6365.3	6385.1	6428.2	6428.2	6418.9	6456.1
22.5°	7432.6	7362.7	7270.6	7064.4	6813.9	6688.1	6646.1	6672.9	6651.9	6611.2	6619.3
25°	8264.5	8120.0	8042.0	7790.3	7395.3	7129.7	6980.5	6961.9	6938.6	6872.2	6853.5
27.5°	9293.3	9158.2	8961.3	8609.4	8092.1	7700.6	7423.3	7337.0	7283.5	7159.9	7106.4
30°	10500.5	10294.3	10053.0	9560.2	8919.3	8395.0	7989.6	7836.9	7709.9	7493.2	7395.3
32.5°	11859.1	11628.3	11339.4	10699.7	9917.9	9243.2	8744.5	8484.7	8287.8	8005.9	7823.0
35°	13672.0	13450.7	12879.7	12144.5	11107.6	10268.6	9697.7	9386.6	9145.4	8769.1	8523.2
37.5°	15960.4	15559.6	14809.3	13909.8	12600.1	11542.1	10837.2	10580.8	10293.1	9802.5	9462.3
40°	17908.6	17504.3	16931.0	15915.0	14515.6	13236.3	12327.5	11991.9	11641.2	10982.8	10603.0
42.5°	19404.7	19000.4	18577.4	17899.3	16792.4	15489.7	14002.9	13566.0	13067.3	12244.7	11742.6
45°	20305.4	19853.3	19638.9	19511.9	19130.9	19148.3	16010.5	15169.3	14491.1	13566.0	12948.5
47.5°	20567.5	20087.5	20131.7	20522.0	21110.5	21786.3	18360.6	16813.4	15934.8	14804.6	14197.5
50°	19721.6	19367.3	19853.3	21034.7	22664.8	23830.0	20960.2	18625.1	17402.9	16169.0	15436.1
52.5°	17070.8	17063.8	18139.3	20471.9	23597.0	25659.3	23626.1	20705.0	18935.1	17499.7	16732.9
55°	13497.3	13493.8	15092.4	18165.0	23232.2	26349.0	25867.8	23162.3	20523.2	18790.6	18077.5
57.5°	9470.5	9790.9	11637.7	14506.3	20580.3	25849.2	27246.2	25733.8	22082.2	20052.5	19373.2
60°	6184.7	6315.2	8209.8	11324.2	16145.7	23188.0	27825.3	28073.5	23585.3	21153.6	20691.0
62.5°	4407.8	4435.8	5322.4	8460.2	11503.7	18013.5	27331.3	29717.6	24974.2	22151.0	22045.0
64°	3733.2	3776.3	4372.9	6686.9	9425.0	13434.4	26356.0	30134.7	25688.4	22672.9	22822.1
65°	3377.8	3418.6	3899.8	5635.9	8403.2	10875.6	25166.4	30098.6	26155.6	22979.4	23301.0
67.5°	2769.6	2773.1	3031.8	3870.7	6267.4	6363.0	19274.2	28597.8	26724.3	23443.1	24219.1
70°	2477.2	2489.9	2629.8	2931.6	4679.3	4256.4	10897.8	25772.3	26109.1	23249.7	24298.4
72.5°	2027.4	2064.7	2291.9	2533.1	3358.0	2982.8	5102.3	20531.4	23473.4	22134.6	22996.9
75°	1579.9	1606.8	1825.8	2234.8	2409.5	2230.1	2827.9	13260.7	18812.7	19633.0	19615.6
77.5°	1189.6	1216.5	1404.0	1768.7	2143.9	1656.8	1906.2	6590.2	13000.9	14848.9	14126.5
80°	899.5	898.3	1063.8	1333.0	1750.1	1243.2	1287.5	2987.5	7431.5	8882.0	7841.6
82.5°	619.9	632.7	781.8	1021.8	1211.8	1196.7	901.9	1546.2	3287.0	3737.9	3598.0
85°	434.6	428.8	553.4	673.5	799.3	865.7	603.5	869.2	1422.6	744.6	663.0
87.5°	242.3	241.2	328.5	371.7	398.5	349.5	360.0	337.9	559.3	293.6	188.8
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°	5752.4	5752.4	5752.4	5752.4	5752.4	5752.4	5752.4	5752.4	5752.4	5752.4
2.5°	5754.7	5788.6	5818.9	5846.8	5856.1	5882.9	5913.2	5920.2	5928.3	5866.6
5°	5783.9	5851.4	5926.1	5987.8	6042.6	6100.8	6171.9	6185.9	6216.2	6138.1
7.5°	5865.5	5965.7	6086.8	6189.4	6281.4	6365.3	6456.1	6490.0	6509.8	6434.1
10°	5975.0	6119.5	6270.9	6425.9	6537.7	6631.0	6703.2	6704.4	6725.3	6653.1
12.5°	6098.5	6276.8	6470.2	6641.5	6754.5	6802.2	6816.2	6775.5	6776.6	6698.6
15°	6222.0	6430.5	6664.7	6827.8	6880.3	6851.2	6813.9	6760.3	6750.9	6668.3
17.5°	6372.3	6594.8	6827.8	6956.0	6911.8	6825.6	6780.1	6716.0	6709.1	6622.8
20°	6517.9	6762.6	6984.0	7021.3	6873.3	6748.7	6684.5	6589.0	6571.6	6481.8
22.5°	6667.1	6916.4	7122.6	7027.1	6782.4	6587.8	6467.8	6338.5	6309.3	6230.2
25°	6860.5	7074.9	7241.5	6980.5	6599.5	6290.7	6110.1	5975.0	5959.8	5898.1
27.5°	7115.7	7286.9	7360.4	6878.0	6304.7	5880.6	5656.9	5533.4	5550.8	5474.0
30°	7358.0	7514.1	7468.7	6697.4	5882.9	5349.3	5159.3	5067.3	5097.6	5021.8
32.5°	7700.6	7788.0	7570.0	6434.1	5394.7	4844.7	4684.0	4554.6	4526.7	4509.2
35°	8328.6	8296.0	7687.7	6125.3	4904.2	4374.0	4141.0	3924.2	3873.0	3787.9
37.5°	9189.7	9027.7	7793.8	5790.9	4440.5	3895.1	3580.6	3334.7	3250.8	3184.4
40°	10188.2	9880.6	7909.2	5388.9	4009.4	3419.8	3132.0	2873.3	2782.4	2755.6
42.5°	11278.8	10725.4	7967.4	4842.5	3617.9	3121.5	2790.5	2555.2	2452.7	2402.6
45°	12433.5	11528.2	7854.4	4240.0	3312.6	2900.1	2542.4	2252.3	2135.7	2120.6
47.5°	13570.7	12167.8	7538.6	3713.4	3092.4	2735.8	2265.1	2074.0	2005.3	1983.1
50°	14851.2	12699.2	7056.2	3252.0	2897.8	2484.1	2129.9	1990.1	1934.2	1919.1
52.5°	16193.5	13145.4	6494.7	2897.8	2657.7	2335.0	2061.2	1910.8	1868.9	1856.1
55°	17618.4	13576.5	5887.6	2575.1	2370.0	2269.8	1998.3	1844.4	1815.3	1808.3
57.5°	19207.8	14076.4	5320.2	2223.2	2194.0	2206.8	1951.6	1797.8	1775.7	1771.1
60°	20837.8	14703.3	4778.3	1936.5	2055.4	2146.2	1903.9	1737.2	1696.4	1682.5
62.5°	22528.5	15395.3	4148.0	1709.3	1916.7	2064.7	1831.7	1639.4	1600.9	1582.3
64°	23466.4	15756.5	3690.0	1595.1	1837.5	1998.3	1768.7	1564.8	1536.9	1518.2
65°	23989.6	15955.8	3320.7	1529.8	1780.4	1947.0	1718.6	1508.9	1497.3	1476.3
67.5°	24733.0	16028.0	2483.0	1391.2	1618.4	1787.4	1568.3	1381.9	1411.0	1372.6
70°	24184.2	15342.9	1789.7	1263.1	1439.0	1604.4	1430.9	1249.0	1285.2	1222.3
72.5°	22036.8	13291.0	1351.6	1124.4	1256.0	1416.8	1272.4	1101.1	1074.3	1031.1
75°	17700.0	9882.9	1070.8	991.6	1082.4	1223.4	1111.5	942.7	884.4	863.4
77.5°	12469.6	5843.3	865.7	849.4	919.3	1019.5	950.8	801.6	725.9	721.2
80°	6795.3	2570.4	706.1	700.2	743.4	833.1	798.1	664.1	582.6	562.7
82.5°	2570.4	1101.1	536.0	541.8	573.2	644.3	624.5	505.7	464.9	385.7
85°	654.8	542.9	348.4	350.7	344.9	424.2	417.1	329.7	280.8	257.5
87.5°	262.1	202.7	130.5	142.1	135.1	195.8	199.3	156.1	95.5	82.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)