

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: P622686

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

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622686
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-PA6B-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: 40946.2 lumens
Efficiency: N/A
Efficacy: 111.9 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): 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

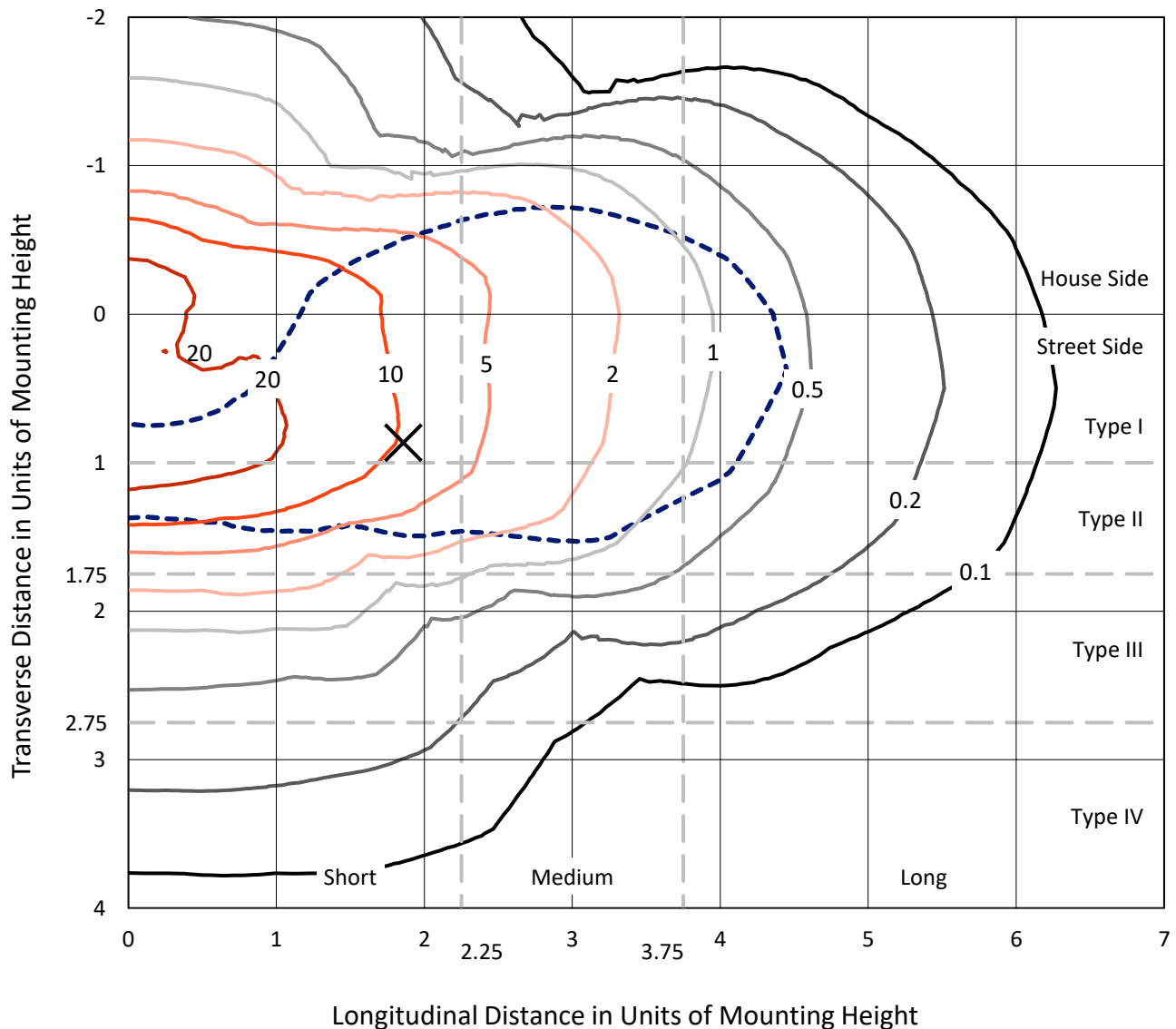


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

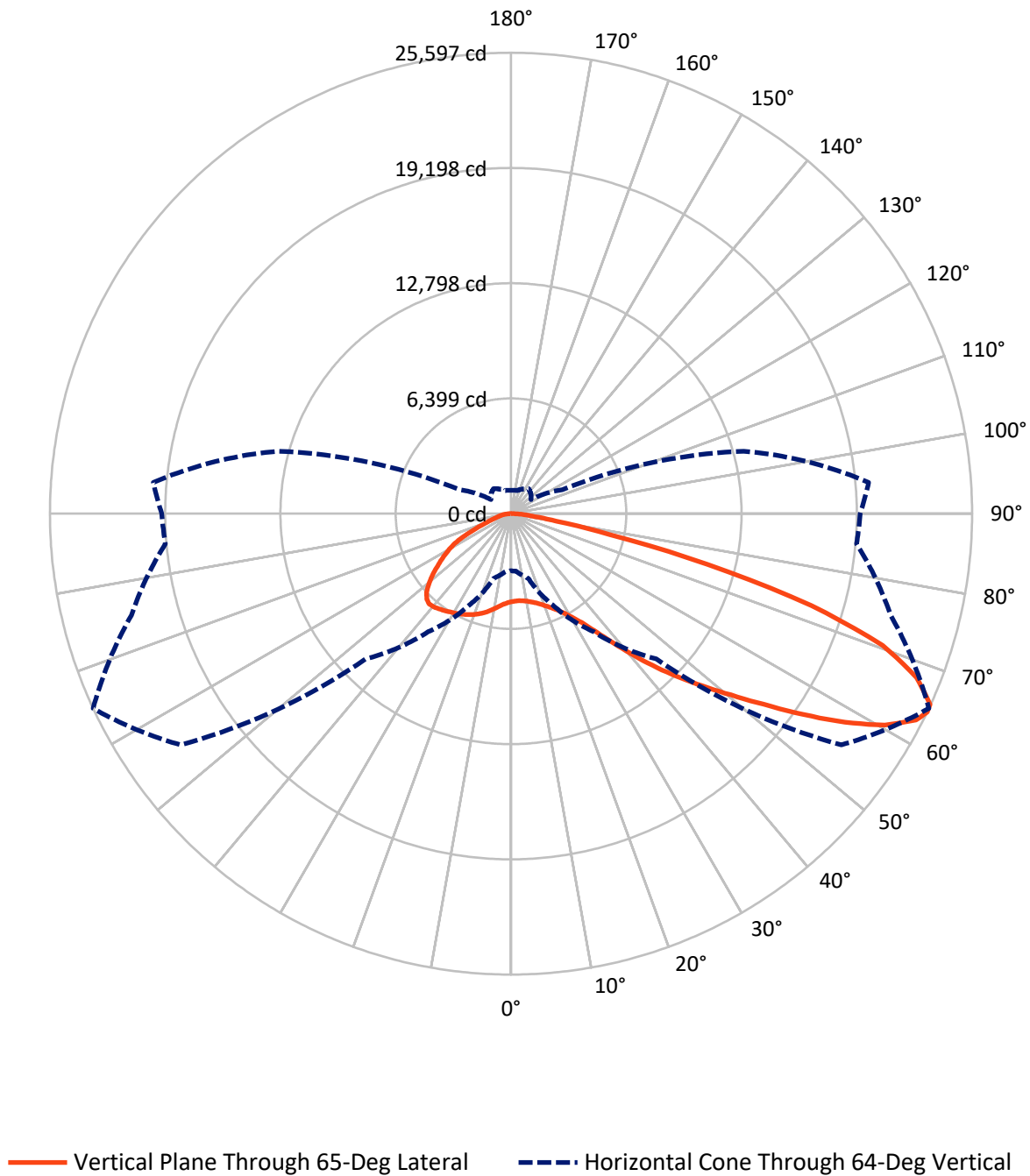


Based on 15 foot mounting height. Maximum calculated value = 30 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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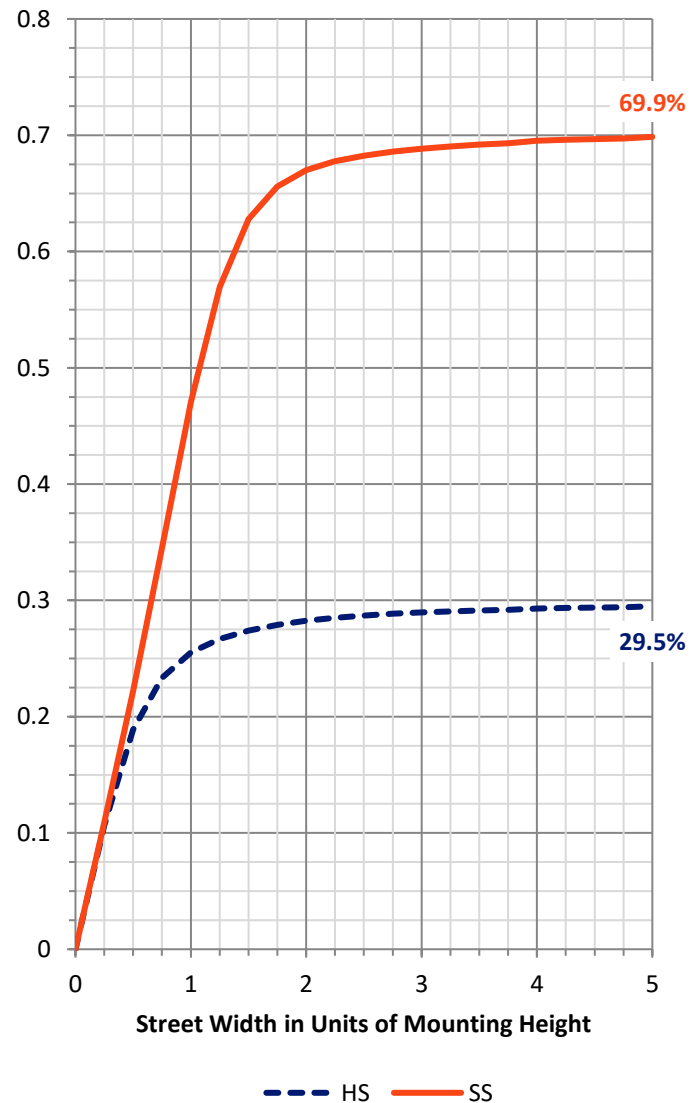
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12209.9	0.0	12209.9
	% Fixture	29.8	0.0	29.8
Street Side	Lumens	28736.2	0.0	28736.2
	% Fixture	70.2	0.0	70.2
Total	Lumens	40946.2	0.0	40946.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.1	1.2
10°-20°	1533.9	3.7
20°-30°	2756.2	6.7
30°-40°	4492.6	11.0
40°-50°	7489.5	18.3
50°-60°	9744.3	23.8
60°-70°	8790.1	21.5
70°-80°	4912.7	12.0
80°-90°	744.8	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°	40946.2	100.0
0°-180°	40946.2	100.0

Coefficient of Utilization



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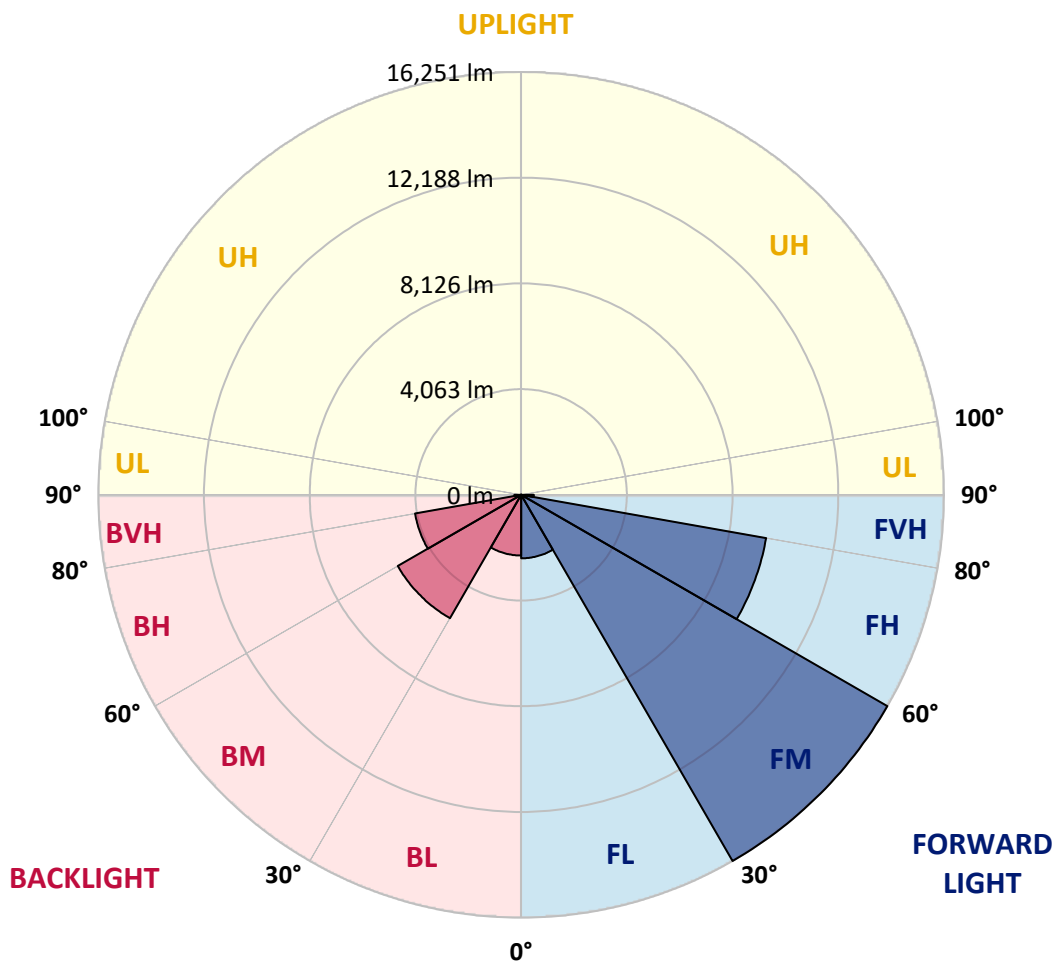
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2439.3	6.0			
FM	(30°-60°)	16251.3	39.7			
FH	(60°-80°)	9561.4	23.4			G4/12000
FVH	(80°-90°)	484.2	1.2			G3/500
BL	(0°-30°)	2332.9	5.7	B3/2500		
BM	(30°-60°)	5475.1	13.4	B4/8500		
BH	(60°-80°)	4141.4	10.1	B4/5000		G4/5000
BVH	(80°-90°)	260.5	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°	4886.2	4886.2	4886.2	4886.2	4886.2	4886.2	4886.2	4886.2	4886.2	4886.2	4886.2
2.5°	4882.2	4843.6	4845.6	4845.6	4846.6	4848.6	4855.5	4860.5	4865.4	4874.3	4893.1
5°	4855.5	4819.8	4824.8	4827.7	4833.7	4840.7	4848.6	4852.5	4860.5	4879.3	4904.9
7.5°	4835.7	4800.1	4807.0	4811.9	4821.9	4838.7	4863.4	4883.2	4895.1	4920.8	4955.5
10°	4868.4	4827.7	4834.7	4832.8	4837.7	4864.4	4903.0	4944.6	4961.4	4995.1	5038.6
12.5°	4956.5	4915.8	4917.9	4903.0	4907.9	4937.7	4981.2	5032.7	5052.5	5088.1	5132.6
15°	5094.0	5038.6	5039.5	5027.7	5023.7	5052.5	5089.0	5136.6	5156.4	5193.0	5234.5
17.5°	5327.6	5276.1	5252.4	5200.9	5183.1	5207.8	5242.5	5282.0	5299.9	5314.7	5352.4
20°	5733.4	5670.0	5617.6	5517.6	5426.6	5406.8	5423.6	5460.2	5460.2	5452.3	5484.0
22.5°	6313.3	6254.0	6175.8	6000.6	5787.8	5680.9	5645.3	5668.1	5650.2	5615.6	5622.5
25°	7020.0	6897.3	6831.0	6617.1	6281.7	6056.0	5929.3	5913.5	5893.7	5837.3	5821.4
27.5°	7893.9	7779.1	7611.9	7312.9	6873.5	6540.9	6305.4	6232.2	6186.6	6081.7	6036.2
30°	8919.2	8744.1	8539.2	8120.5	7576.2	7130.9	6786.4	6656.8	6548.9	6364.8	6281.7
32.5°	10073.2	9877.2	9631.8	9088.4	8424.4	7851.3	7427.8	7207.0	7039.8	6800.3	6644.9
35°	11613.2	11425.1	10940.2	10315.7	9434.8	8722.3	8237.3	7973.1	7768.2	7448.5	7239.7
37.5°	13556.9	13216.5	12579.1	11815.1	10702.7	9804.0	9205.3	8987.5	8743.1	8326.4	8037.4
40°	15211.7	14868.3	14381.4	13518.4	12329.7	11243.0	10471.1	10186.0	9888.1	9329.0	9006.3
42.5°	16482.5	16139.1	15779.9	15203.8	14263.6	13157.1	11894.2	11523.1	11099.6	10400.8	9974.2
45°	17247.6	16863.5	16681.5	16573.6	16250.0	16264.8	13599.5	12885.0	12309.0	11523.1	10998.6
47.5°	17470.3	17062.5	17100.1	17431.7	17931.5	18505.5	15595.8	14281.5	13535.2	12575.2	12059.5
50°	16751.7	16450.9	16863.5	17867.1	19251.8	20241.4	17803.8	15820.4	14782.3	13734.1	13111.6
52.5°	14500.1	14494.2	15407.7	17389.1	20043.5	21795.3	20068.2	17587.0	16083.7	14864.4	14213.2
55°	11464.8	11461.8	12819.7	15429.5	19733.7	22381.2	21972.5	19674.4	17432.6	15961.0	15355.3
57.5°	8044.3	8316.5	9885.1	12321.8	17481.2	21956.6	23143.3	21858.6	18756.9	17032.8	16455.8
60°	5253.4	5364.2	6973.5	9618.9	13714.3	19696.1	23635.2	23846.0	20033.6	17968.1	17575.2
62.5°	3744.1	3767.8	4521.0	7186.2	9771.4	15300.8	23215.5	25242.4	21213.3	18815.3	18725.2
64°	3171.0	3207.6	3714.4	5679.9	8005.7	11411.3	22387.1	25596.7	21820.0	19258.7	19385.4
65°	2869.1	2903.8	3312.6	4787.2	7137.7	9237.9	21376.6	25566.0	22216.9	19518.9	19792.1
67.5°	2352.5	2355.5	2575.2	3287.8	5323.6	5404.8	16371.7	24291.3	22699.9	19912.9	20572.0
70°	2104.1	2115.0	2233.7	2490.1	3974.7	3615.4	9256.7	21891.3	22177.3	19748.6	20639.3
72.5°	1722.1	1753.8	1946.8	2151.6	2852.3	2533.6	4333.9	17439.6	19938.6	18801.4	19533.8
75°	1342.1	1364.8	1550.9	1898.2	2046.7	1894.3	2402.0	11263.8	15979.8	16676.5	16661.7
77.5°	1010.5	1033.2	1192.6	1502.3	1821.0	1407.4	1619.2	5597.7	11043.1	12612.8	11999.2
80°	764.1	763.0	903.6	1132.2	1486.5	1056.0	1093.6	2537.6	6312.3	7544.5	6660.7
82.5°	526.5	537.4	664.1	868.0	1029.3	1016.4	766.0	1313.3	2791.9	3175.0	3056.2
85°	369.2	364.2	470.1	572.1	678.9	735.3	512.6	738.3	1208.4	632.4	563.1
87.5°	205.9	204.8	279.1	315.7	338.5	296.9	305.8	287.0	475.0	249.4	160.4
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°	4886.2	4886.2	4886.2	4886.2	4886.2	4886.2	4886.2	4886.2	4886.2	4886.2
2.5°	4888.2	4916.8	4942.6	4966.3	4974.2	4997.0	5022.8	5028.7	5035.6	4983.2
5°	4912.9	4970.3	5033.7	5086.1	5132.6	5182.1	5242.5	5254.3	5280.1	5213.8
7.5°	4982.2	5067.3	5170.2	5257.3	5335.5	5406.8	5484.0	5512.6	5529.5	5465.2
10°	5075.2	5197.9	5326.6	5458.2	5553.3	5632.4	5693.7	5694.8	5712.6	5651.2
12.5°	5180.1	5331.5	5495.8	5641.3	5737.4	5777.9	5789.7	5755.1	5756.1	5689.8
15°	5285.0	5462.2	5661.1	5799.7	5844.2	5819.5	5787.8	5742.3	5734.4	5664.1
17.5°	5412.7	5601.7	5799.7	5908.5	5870.9	5797.7	5759.1	5704.6	5698.8	5625.5
20°	5536.4	5744.2	5932.3	5964.0	5838.3	5732.3	5677.9	5596.8	5581.9	5505.7
22.5°	5663.1	5874.9	6050.1	5968.9	5761.1	5595.8	5493.8	5384.0	5359.2	5292.0
25°	5827.4	6009.5	6151.0	5929.3	5605.7	5343.4	5190.0	5075.2	5062.3	5009.9
27.5°	6044.1	6189.6	6251.9	5842.2	5355.3	4995.1	4805.0	4700.1	4715.0	4649.6
30°	6250.0	6382.6	6344.0	5688.8	4997.0	4543.7	4382.5	4304.2	4330.0	4265.6
32.5°	6540.9	6615.2	6430.1	5465.2	4582.4	4115.2	3978.6	3868.7	3845.0	3830.1
35°	7074.4	7046.7	6530.1	5202.9	4165.6	3715.3	3517.4	3333.3	3289.8	3217.5
37.5°	7805.8	7668.2	6620.1	4918.8	3771.8	3308.6	3041.3	2832.5	2761.2	2704.9
40°	8654.0	8392.7	6718.1	4577.4	3405.6	2904.8	2660.3	2440.6	2363.4	2340.6
42.5°	9580.3	9110.2	6767.6	4113.2	3073.0	2651.4	2370.4	2170.4	2083.3	2040.7
45°	10561.1	9792.1	6671.6	3601.6	2813.7	2463.4	2159.5	1913.1	1814.1	1801.3
47.5°	11527.1	10335.5	6403.4	3154.2	2626.7	2323.9	1924.0	1761.7	1703.3	1684.5
50°	12614.8	10786.8	5993.6	2762.3	2461.4	2110.0	1809.2	1690.4	1642.9	1630.0
52.5°	13754.9	11165.8	5516.6	2461.4	2257.5	1983.3	1750.8	1623.1	1587.5	1576.6
55°	14965.3	11532.0	5000.9	2187.2	2013.1	1928.0	1697.3	1566.7	1542.0	1536.0
57.5°	16315.3	11956.6	4519.0	1888.4	1863.6	1874.5	1657.8	1527.1	1508.3	1504.4
60°	17699.9	12489.1	4058.8	1644.9	1745.9	1823.1	1617.2	1475.6	1441.0	1429.1
62.5°	19136.0	13077.0	3523.3	1451.9	1628.1	1753.8	1555.8	1392.5	1359.8	1344.0
64°	19932.7	13383.7	3134.4	1354.9	1560.8	1697.3	1502.3	1329.1	1305.4	1289.6
65°	20377.0	13553.0	2820.7	1299.5	1512.3	1653.8	1459.8	1281.7	1271.7	1254.0
67.5°	21008.4	13614.4	2109.1	1181.7	1374.7	1518.2	1332.1	1173.8	1198.5	1165.9
70°	20542.3	13032.4	1520.2	1072.9	1222.3	1362.8	1215.4	1061.0	1091.7	1038.2
72.5°	18718.3	11289.5	1148.0	955.1	1066.9	1203.5	1080.8	935.3	912.5	875.9
75°	15034.6	8394.7	909.5	842.3	919.4	1039.2	944.1	800.7	751.2	733.4
77.5°	10591.8	4963.4	735.3	721.5	780.9	866.0	807.6	680.9	616.6	612.6
80°	5772.0	2183.3	599.8	594.8	631.4	707.7	677.9	564.2	494.9	478.0
82.5°	2183.3	935.3	455.2	460.2	486.9	547.3	530.5	429.6	394.9	327.6
85°	556.2	461.2	295.9	297.9	292.9	360.3	354.3	280.1	238.5	218.7
87.5°	222.7	172.2	110.9	120.7	114.8	166.3	169.2	132.6	81.1	70.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)