

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: P380874

Luminaire Tested: **PRV-XL-PA4A-8540-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P380874
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-PA4A-8540-U-T2R
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(4) 85 CRI, 4000K, 785mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26674.5 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 245
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

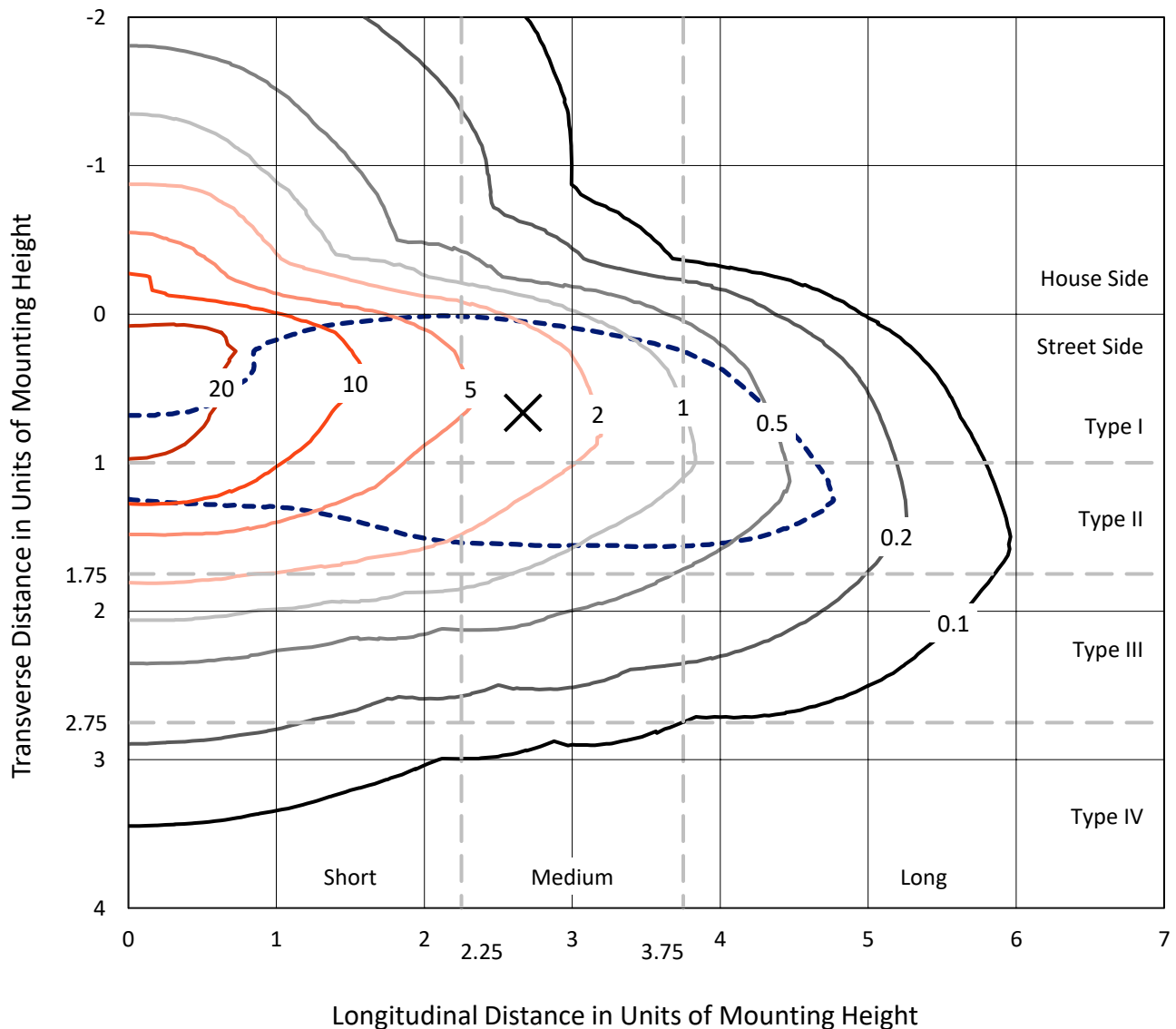


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

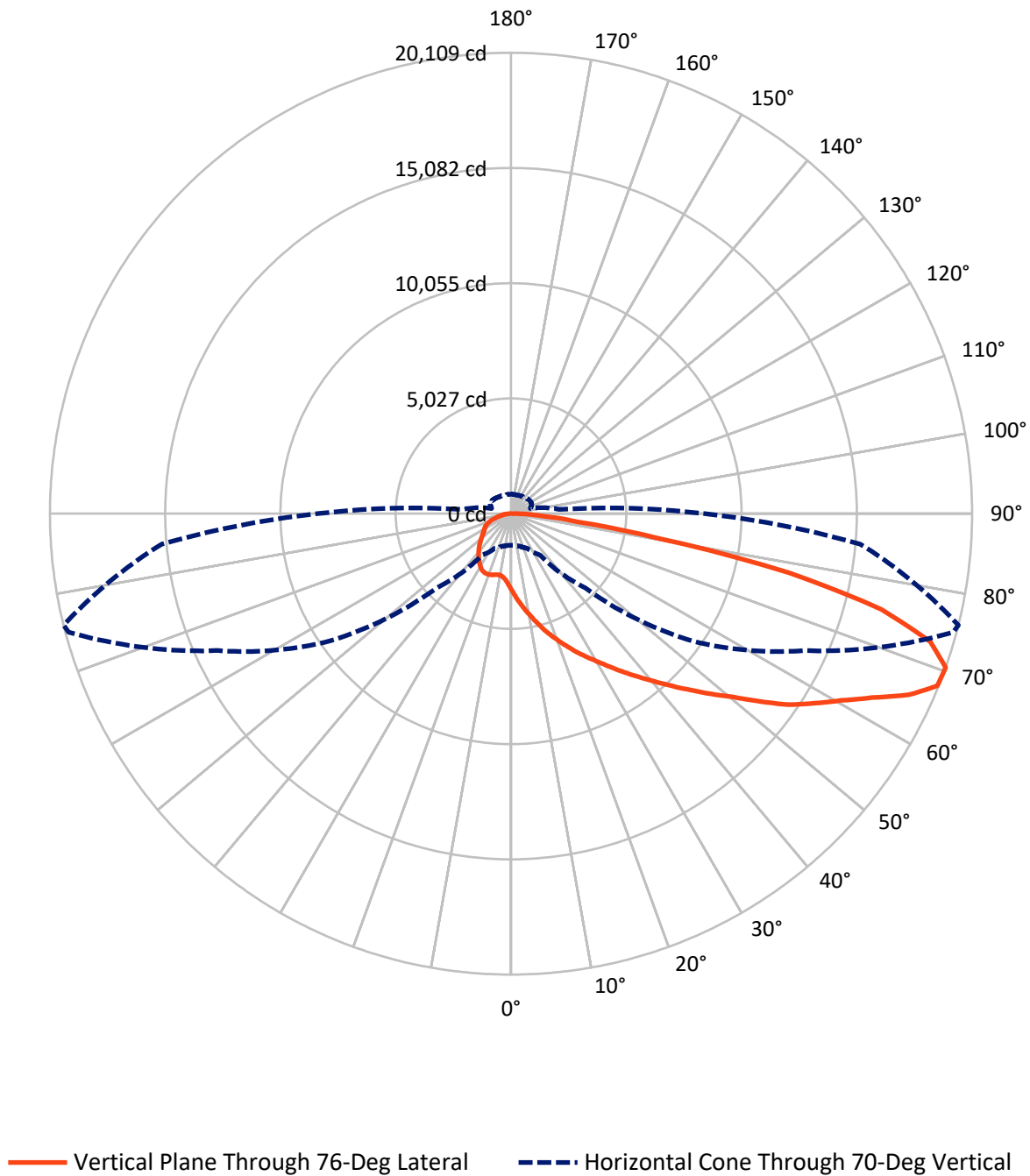


Based on 15 foot mounting height. Maximum calculated value = 25.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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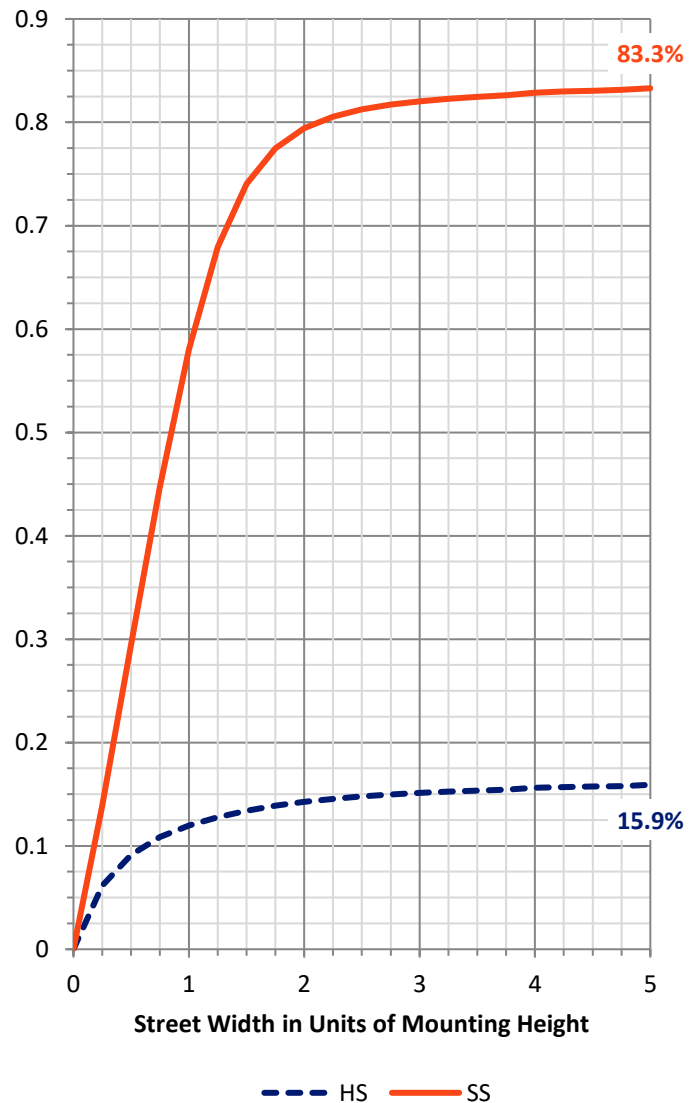
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4354.9	0.0	4354.9
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	22319.6	0.0	22319.6
	% Fixture	83.7	0.0	83.7
Total	Lumens	26674.5	0.0	26674.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.6	1.3
10°-20°	1178.0	4.4
20°-30°	2107.6	7.9
30°-40°	3409.3	12.8
40°-50°	4932.0	18.5
50°-60°	5645.0	21.2
60°-70°	5192.8	19.5
70°-80°	3211.1	12.0
80°-90°	652.1	2.4
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°	26674.5	100.0
0°-180°	26674.5	100.0

Coefficient of Utilization



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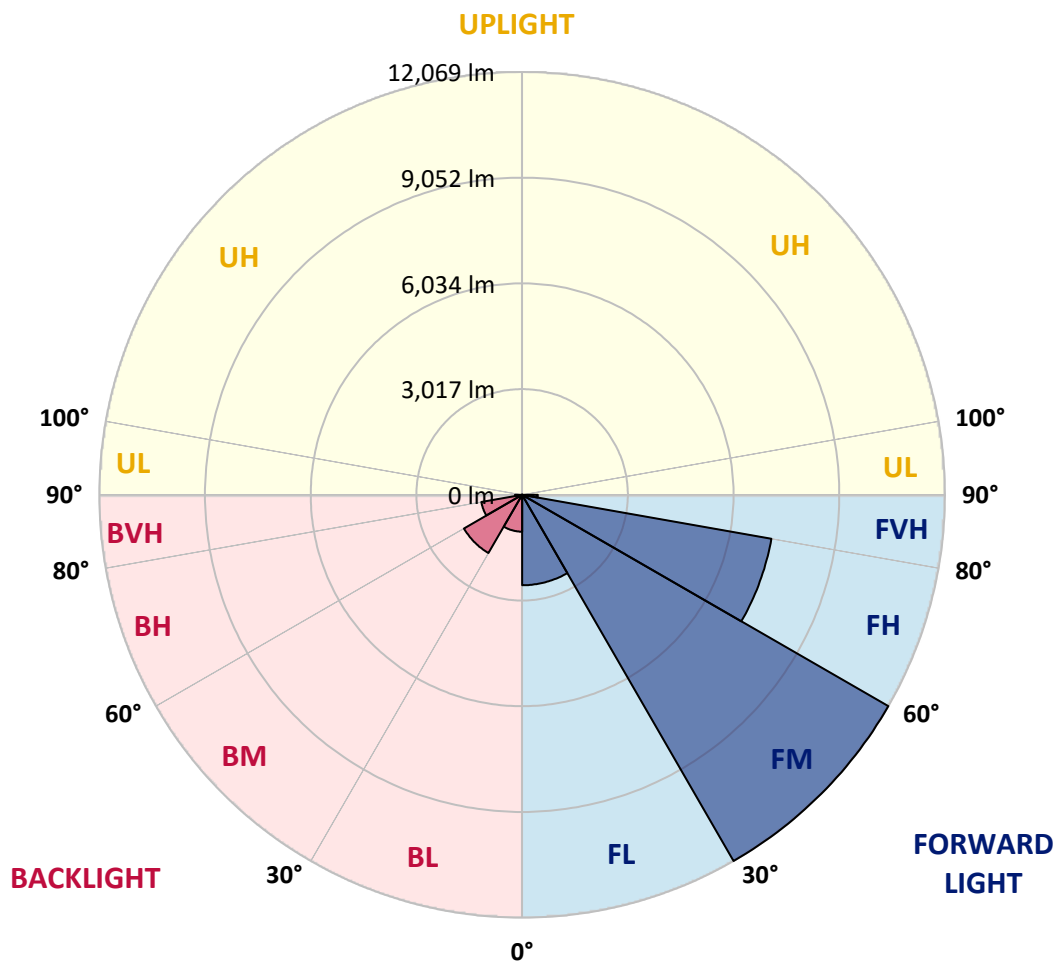
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2580.3	9.7			
FM	(30°-60°)	12068.9	45.2			
FH	(60°-80°)	7222.7	27.1			G3/7500
FVH	(80°-90°)	447.6	1.7			G3/500
BL	(0°-30°)	1051.8	3.9	B3/2500		
BM	(30°-60°)	1917.4	7.2	B2/2500		
BH	(60°-80°)	1181.2	4.4	B3/2500		G3/2500
BVH	(80°-90°)	204.4	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3335.7	3335.7	3335.7	3335.7	3335.7	3335.7	3335.7	3335.7	3335.7	3335.7	3335.7
2.5°	4251.2	4219.7	4216.1	4167.0	4121.5	3998.7	3911.0	3756.7	3602.3	3598.8	3444.5
5°	4914.2	4882.6	4865.1	4805.4	4728.3	4566.9	4409.1	4170.6	3907.5	3889.9	3598.8
7.5°	5363.2	5335.1	5300.0	5275.5	5201.8	5058.0	4865.1	4580.9	4219.7	4184.6	3777.7
10°	5664.8	5647.3	5640.3	5622.7	5577.2	5461.3	5275.5	4973.9	4531.8	4493.2	3967.1
12.5°	5794.6	5787.6	5819.2	5868.3	5885.8	5840.2	5661.3	5377.2	4875.6	4833.5	4195.2
15°	5643.8	5650.8	5731.5	5899.8	6078.7	6176.9	6071.7	5794.6	5265.0	5205.3	4461.7
17.5°	5573.6	5584.1	5640.3	5801.6	6054.2	6359.4	6408.5	6190.9	5640.3	5556.1	4742.3
20°	5696.4	5710.4	5752.5	5878.8	6054.2	6380.4	6636.5	6569.8	6008.6	5920.9	5012.4
22.5°	6008.6	6026.1	6022.6	6103.3	6222.5	6447.0	6762.7	6927.6	6394.4	6296.2	5293.0
25°	6675.0	6661.0	6541.7	6503.1	6534.7	6678.5	6931.0	7271.3	6797.8	6699.6	5587.6
27.5°	7580.0	7562.4	7345.0	7148.6	6973.2	7036.3	7169.6	7548.4	7208.1	7095.9	5868.3
30°	8548.1	8527.0	8274.5	7955.3	7566.0	7474.8	7457.2	7790.5	7622.1	7502.8	6166.4
32.5°	9491.7	9474.1	9204.0	8832.2	8295.6	8021.9	7853.6	8060.5	8092.1	7976.3	6492.6
35°	10351.0	10351.0	10119.5	9677.6	9070.7	8656.8	8379.7	8393.8	8632.3	8499.0	6864.4
37.5°	11115.7	11112.2	10859.6	10424.7	9842.4	9368.9	9025.1	8797.2	9147.9	9032.1	7253.8
40°	11722.5	11697.9	11512.1	11133.2	10547.5	10077.4	9730.2	9270.6	9723.1	9617.9	7667.7
42.5°	12164.5	12150.4	12024.1	11694.4	11136.7	10694.8	10456.3	9867.0	10375.5	10270.4	8151.7
45°	12336.3	12364.4	12364.4	12052.2	11610.2	11206.8	11101.6	10522.9	11080.6	10975.4	8670.9
47.5°	12059.2	12132.9	12283.7	12304.8	11915.4	11641.8	11676.9	11182.3	11806.7	11750.6	9239.1
50°	11192.8	11329.6	11659.3	12255.7	12038.2	11975.0	12168.0	11855.8	12585.4	12567.9	9930.1
52.5°	8958.5	9291.7	10319.5	11389.3	11954.0	12129.4	12655.6	12613.4	13588.6	13616.6	10831.6
55°	6871.5	6997.7	8186.8	10007.3	11438.4	12080.3	12981.7	13353.5	14675.9	14711.0	11659.3
57.5°	5556.1	5640.3	6289.2	8186.8	10263.3	11813.7	13237.8	13784.9	15510.8	15601.9	12396.0
60°	4402.1	4524.9	4959.8	6264.6	8618.2	11171.8	13416.7	14265.6	16408.7	16545.5	13276.4
62.5°	3272.6	3332.2	3742.7	4640.6	6822.4	10017.8	13322.0	14788.1	17510.1	17675.0	14335.7
65°	2329.0	2381.7	2672.8	3300.7	5044.0	8456.9	12771.3	15177.5	18892.1	19060.5	15402.0
67.5°	1743.3	1764.3	1929.2	2308.0	3398.9	6569.8	11655.8	15110.9	19902.3	20053.1	15829.9
70°	1378.5	1385.5	1466.2	1669.7	2209.8	4574.0	9702.1	14132.2	19976.0	20109.2	15289.7
72.5°	1143.5	1140.0	1185.5	1283.8	1539.8	2893.8	7187.2	12315.3	19028.9	19120.1	13781.5
75°	943.5	950.6	982.1	1038.3	1175.0	1908.2	4658.1	9824.8	16787.5	16689.3	11564.7
77.5°	792.7	789.2	803.3	852.4	950.6	1371.5	2728.9	7099.5	12441.6	12392.5	7590.5
80°	638.4	645.4	666.4	708.5	799.8	1045.3	1613.5	4430.1	6675.0	6496.2	3626.9
82.5°	427.9	494.5	536.7	585.8	691.0	771.6	1024.2	2251.9	2985.0	2939.4	1645.1
85°	203.4	270.1	399.9	456.0	561.3	484.1	694.5	1073.3	1494.3	1476.7	592.8
87.5°	42.1	42.1	214.0	256.0	347.3	206.9	385.9	466.5	722.6	677.0	242.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3335.7	3335.7	3335.7	3335.7	3335.7	3335.7	3335.7	3335.7	3335.7	3335.7	3335.7
2.5°	3353.3	3258.6	3069.2	2918.3	2764.0	2676.3	2567.6	2515.0	2504.4	2476.4	2497.5
5°	3412.9	3227.1	2869.2	2634.2	2476.4	2399.2	2360.7	2346.6	2343.1	2336.1	2336.1
7.5°	3493.6	3209.5	2742.9	2504.4	2402.7	2378.2	2388.7	2409.8	2413.3	2420.3	2416.7
10°	3591.8	3213.0	2672.8	2472.9	2423.8	2427.3	2462.4	2490.4	2504.4	2515.0	2511.5
12.5°	3728.6	3255.1	2662.3	2493.9	2472.9	2486.9	2522.0	2550.1	2564.1	2567.6	2567.6
15°	3907.5	3342.8	2686.9	2539.5	2522.0	2532.5	2553.5	2564.1	2567.6	2564.1	2564.1
17.5°	4103.9	3448.0	2721.9	2567.6	2539.5	2529.0	2522.0	2511.5	2490.4	2476.4	2476.4
20°	4293.3	3542.7	2739.5	2564.1	2515.0	2472.9	2430.8	2378.2	2343.1	2315.0	2315.0
22.5°	4482.8	3630.4	2739.5	2525.5	2448.4	2367.6	2279.9	2195.8	2143.1	2108.1	2108.1
25°	4682.7	3714.6	2718.4	2458.9	2343.1	2227.3	2108.1	2002.8	1950.2	1915.1	1908.2
27.5°	4851.1	3763.7	2662.3	2364.1	2213.3	2066.0	1929.2	1820.5	1781.9	1750.3	1750.3
30°	5029.9	3795.3	2557.0	2241.3	2066.0	1897.6	1757.3	1669.7	1627.5	1582.0	1578.4
32.5°	5229.9	3816.3	2437.8	2111.6	1915.1	1736.3	1617.1	1546.9	1455.7	1406.6	1399.5
35°	5461.3	3844.4	2311.5	1964.2	1764.3	1603.0	1532.8	1417.1	1329.4	1287.3	1283.8
37.5°	5706.9	3865.4	2174.7	1834.5	1627.5	1515.3	1445.1	1308.3	1231.2	1168.1	1161.0
40°	5966.5	3865.4	2034.4	1708.2	1518.8	1476.7	1343.4	1220.6	1090.9	1059.3	1052.3
42.5°	6254.1	3858.4	1894.2	1585.4	1417.1	1389.0	1283.8	1154.0	1087.4	1059.3	1052.3
45°	6559.3	3833.8	1760.8	1445.1	1311.8	1255.7	1175.0	1140.0	1111.9	1111.9	1111.9
47.5°	6906.5	3812.8	1610.0	1318.9	1234.7	1171.5	1111.9	1090.9	1087.4	1097.9	1108.4
50°	7352.0	3805.8	1483.7	1227.7	1175.0	1101.4	1094.4	1076.9	1080.4	1080.4	1080.4
52.5°	7892.2	3742.7	1364.5	1161.0	1115.5	1027.8	1048.8	1066.3	1073.3	1069.8	1066.3
55°	8288.5	3630.4	1262.7	1115.5	1073.3	999.7	1027.8	1055.8	1062.8	1052.3	1052.3
57.5°	8646.3	3472.5	1182.1	1080.4	1045.3	982.1	1013.7	1041.8	1034.7	1031.2	1027.8
60°	9056.7	3321.7	1118.9	1062.8	1017.2	975.1	1003.2	1020.7	1010.2	1003.2	999.7
62.5°	9502.2	3174.4	1073.3	1062.8	996.1	971.6	992.7	999.7	978.6	971.6	971.6
65°	9709.1	2942.9	1024.2	1062.8	985.6	964.6	971.6	964.6	943.5	943.5	940.1
67.5°	9368.9	2560.6	961.1	1048.8	999.7	954.1	940.1	929.5	905.0	905.0	897.9
70°	8428.8	2104.5	869.9	1003.2	1003.2	950.6	897.9	873.4	845.3	855.9	841.8
72.5°	7201.2	1669.7	757.6	926.0	982.1	947.0	852.4	813.8	789.2	799.8	778.7
75°	5833.2	1294.3	624.4	803.3	929.5	929.5	806.7	754.1	726.1	726.1	701.5
77.5°	3718.1	957.6	508.6	666.4	834.8	905.0	768.2	687.5	645.4	634.9	617.3
80°	1841.5	673.5	417.4	529.6	712.1	848.9	740.1	610.3	550.7	529.6	498.1
82.5°	978.6	466.5	333.2	413.9	568.2	764.7	705.0	526.2	452.5	420.9	385.9
85°	438.5	287.6	266.6	315.7	431.4	627.9	634.9	431.4	347.3	413.9	305.1
87.5°	161.4	129.8	129.8	161.4	249.1	263.1	449.0	277.1	221.0	150.8	119.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)