

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: P380872

Luminaire Tested: **PRV-XL-PA3A-8540-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P380872
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-PA3A-8540-U-T2R
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(3) 85 CRI, 4000K, 750mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19354.2 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 172
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

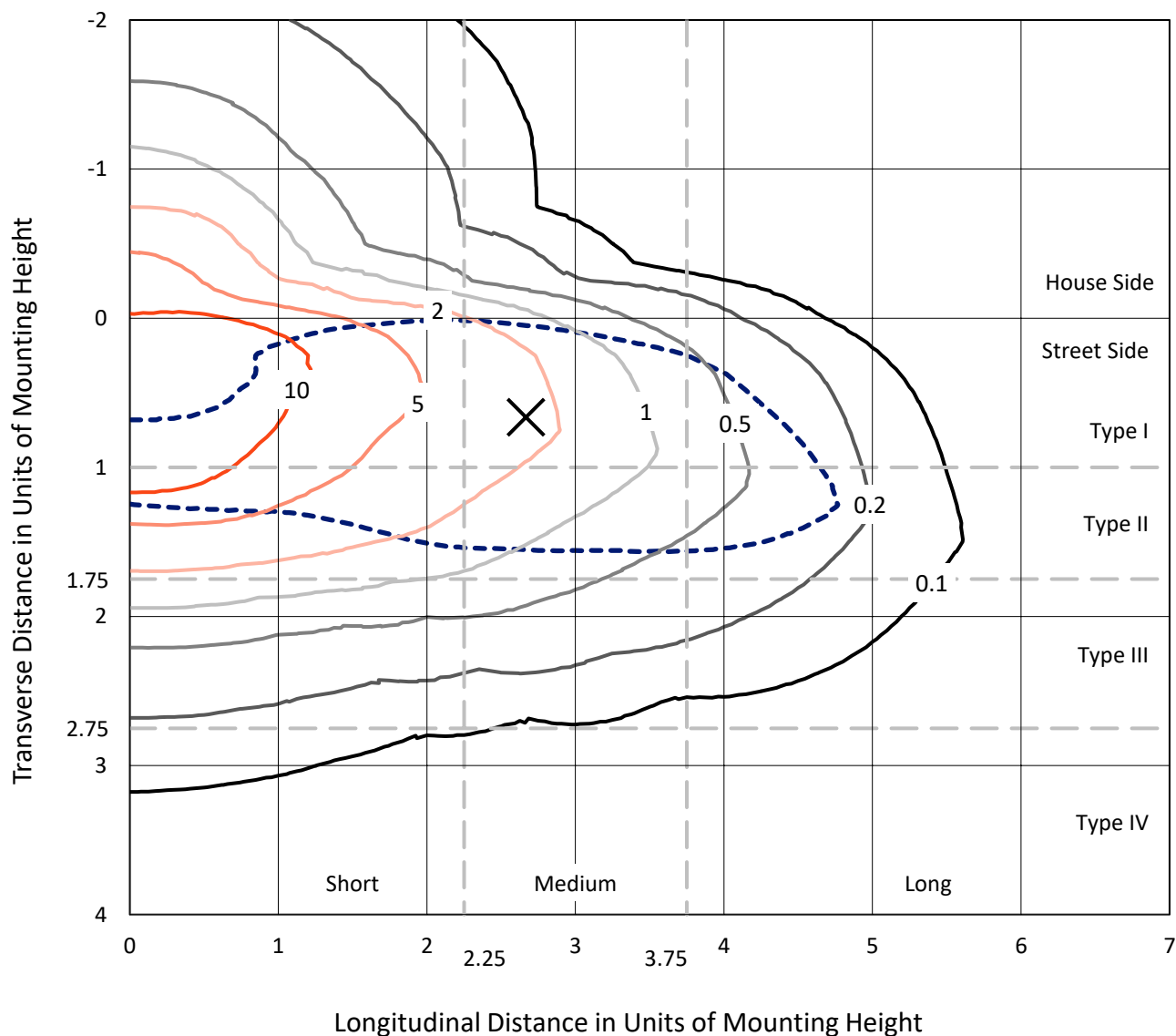


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

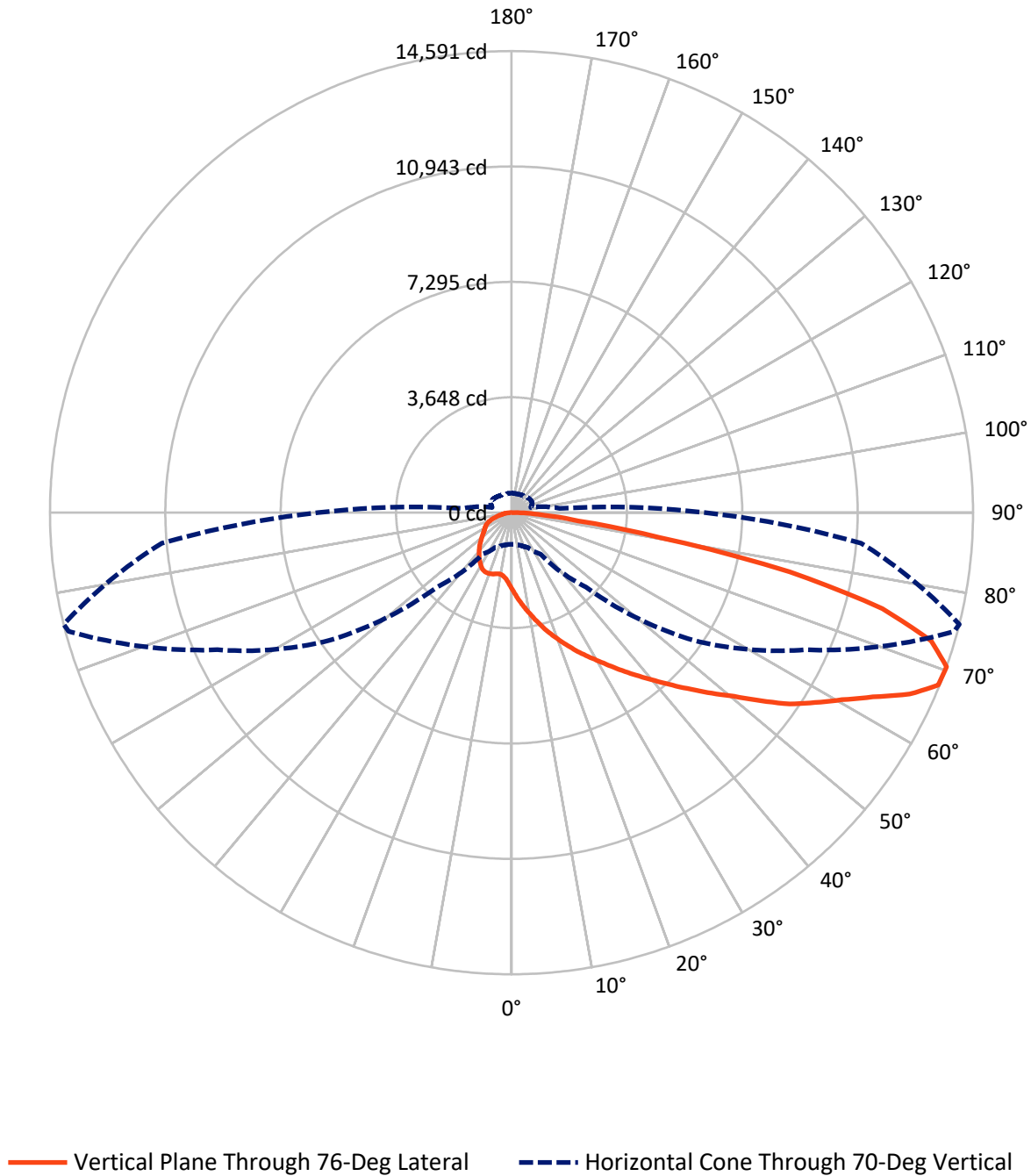


Based on 15 foot mounting height. Maximum calculated value = 18.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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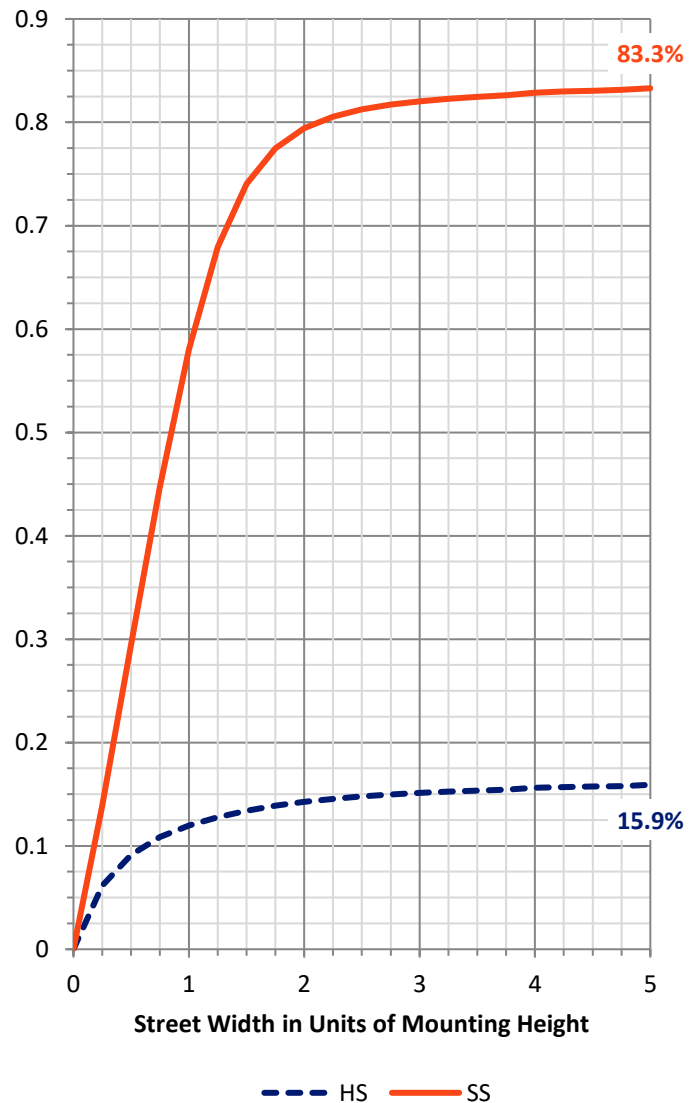
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3159.8	0.0	3159.8
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	16194.4	0.0	16194.4
	% Fixture	83.7	0.0	83.7
Total	Lumens	19354.2	0.0	19354.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.5	1.3
10°-20°	854.7	4.4
20°-30°	1529.2	7.9
30°-40°	2473.7	12.8
40°-50°	3578.5	18.5
50°-60°	4095.9	21.2
60°-70°	3767.7	19.5
70°-80°	2329.9	12.0
80°-90°	473.1	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°	19354.2	100.0
0°-180°	19354.2	100.0

Coefficient of Utilization



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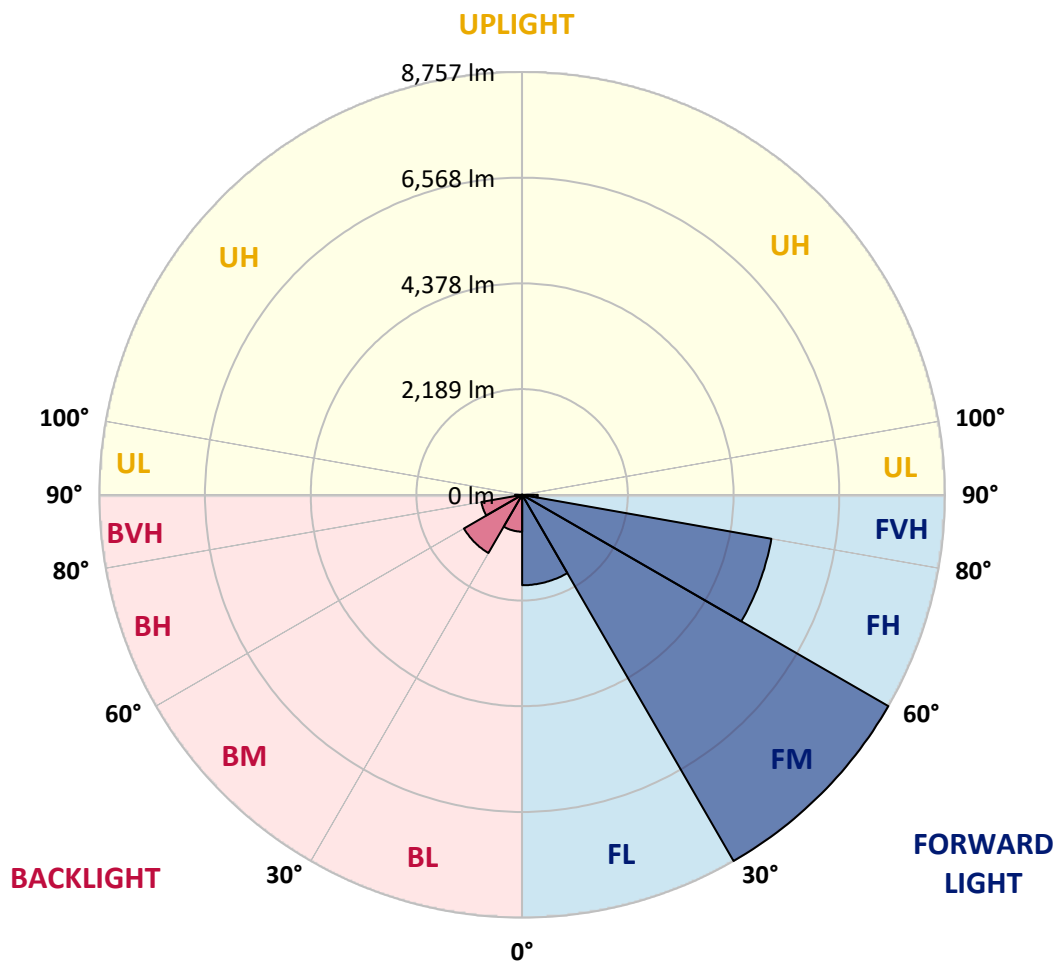
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1872.2	9.7			
FM	(30°-60°)	8756.9	45.2			
FH	(60°-80°)	5240.6	27.1			G3/7500
FVH	(80°-90°)	324.8	1.7			G3/500
BL	(0°-30°)	763.2	3.9	B2/1000		
BM	(30°-60°)	1391.2	7.2	B2/2500		
BH	(60°-80°)	857.0	4.4	B2/1000		G2/1000
BVH	(80°-90°)	148.3	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2420.3	2420.3	2420.3	2420.3	2420.3	2420.3	2420.3	2420.3	2420.3	2420.3	2420.3
2.5°	3084.6	3061.7	3059.1	3023.5	2990.4	2901.3	2837.7	2725.7	2613.7	2611.2	2499.3
5°	3565.6	3542.7	3529.9	3486.7	3430.7	3313.7	3199.1	3026.1	2835.2	2822.4	2611.2
7.5°	3891.4	3871.0	3845.5	3827.7	3774.3	3669.9	3529.9	3323.8	3061.7	3036.2	2741.0
10°	4110.2	4097.5	4092.4	4079.7	4046.6	3962.6	3827.7	3608.8	3288.2	3260.2	2878.5
12.5°	4204.4	4199.3	4222.2	4257.9	4270.6	4237.4	4107.7	3901.5	3537.6	3507.1	3043.8
15°	4094.9	4100.0	4158.6	4280.7	4410.6	4481.8	4405.5	4204.4	3820.1	3776.8	3237.3
17.5°	4044.0	4051.7	4092.4	4209.5	4392.7	4614.1	4649.8	4492.0	4092.4	4031.4	3440.9
20°	4133.1	4143.3	4173.9	4265.5	4392.7	4629.4	4815.2	4766.8	4359.7	4296.0	3636.9
22.5°	4359.7	4372.4	4369.8	4428.3	4514.9	4677.8	4906.8	5026.5	4639.6	4568.3	3840.5
25°	4843.2	4833.0	4746.5	4718.5	4741.4	4845.8	5029.0	5275.9	4932.3	4861.0	4054.2
27.5°	5499.8	5487.1	5329.3	5186.7	5059.5	5105.3	5202.0	5476.9	5230.0	5148.6	4257.9
30°	6202.2	6187.0	6003.7	5772.1	5489.6	5423.4	5410.8	5652.5	5530.3	5443.8	4474.1
32.5°	6886.9	6874.1	6678.1	6408.4	6019.0	5820.5	5698.4	5848.5	5871.4	5787.4	4710.8
35°	7510.4	7510.4	7342.4	7021.7	6581.4	6281.1	6080.1	6090.3	6263.3	6166.6	4980.7
37.5°	8065.2	8062.6	7879.4	7563.9	7141.4	6797.8	6548.4	6382.9	6637.4	6553.5	5263.1
40°	8505.5	8487.6	8352.8	8077.9	7652.9	7311.9	7059.9	6726.5	7054.8	6978.5	5563.4
42.5°	8826.1	8816.0	8724.3	8485.1	8080.5	7759.8	7586.7	7159.2	7528.2	7451.9	5914.6
45°	8950.9	8971.2	8971.2	8744.7	8424.1	8131.4	8055.0	7635.1	8039.8	7963.4	6291.3
47.5°	8749.8	8803.3	8912.7	8928.0	8645.5	8446.9	8472.4	8113.5	8566.6	8525.9	6703.6
50°	8121.2	8220.5	8459.7	8892.4	8734.5	8688.7	8828.7	8602.2	9131.6	9118.8	7205.0
52.5°	6500.0	6741.8	7487.5	8263.7	8673.4	8800.7	9182.5	9151.9	9859.5	9879.8	7859.0
55°	4985.8	5077.4	5940.1	7261.0	8299.3	8765.1	9419.2	9688.9	10648.4	10673.9	8459.7
57.5°	4031.4	4092.4	4563.2	5940.1	7446.8	8571.7	9605.0	10002.0	11254.1	11320.3	8994.2
60°	3194.0	3283.1	3598.7	4545.4	6253.1	8105.9	9734.7	10350.6	11905.7	12004.9	9632.9
62.5°	2374.5	2417.7	2715.5	3367.1	4950.0	7268.6	9666.1	10729.8	12704.8	12824.4	10401.5
65°	1689.9	1728.1	1939.3	2394.9	3659.7	6136.1	9266.5	11012.3	13707.5	13829.7	11175.2
67.5°	1264.9	1280.1	1399.8	1674.6	2466.1	4766.8	8457.1	10964.0	14440.5	14549.9	11485.7
70°	1000.2	1005.3	1063.9	1211.5	1603.3	3318.7	7039.6	10253.9	14494.0	14590.7	11093.8
72.5°	829.7	827.2	860.2	931.5	1117.3	2099.6	5214.8	8935.6	13806.8	13873.0	9999.5
75°	684.6	689.7	712.6	753.3	852.6	1384.5	3379.8	7128.7	12180.5	12109.3	8390.9
77.5°	575.2	572.6	582.8	618.4	689.7	995.1	1980.1	5151.1	9027.2	8991.6	5507.5
80°	463.2	468.3	483.6	514.1	580.3	758.4	1170.7	3214.4	4843.2	4713.4	2631.6
82.5°	310.5	358.8	389.4	425.0	501.4	559.9	743.1	1633.9	2165.9	2132.7	1193.6
85°	147.6	196.0	290.1	330.8	407.2	351.2	503.9	778.8	1084.2	1071.5	430.1
87.5°	30.5	30.5	155.3	185.8	252.0	150.2	279.9	338.5	524.3	491.2	175.6
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°	2420.3	2420.3	2420.3	2420.3	2420.3	2420.3	2420.3	2420.3	2420.3	2420.3	2420.3
2.5°	2433.0	2364.3	2226.9	2117.5	2005.5	1941.8	1863.0	1824.8	1817.2	1796.8	1812.1
5°	2476.3	2341.4	2081.8	1911.3	1796.8	1740.8	1712.8	1702.6	1700.0	1695.0	1695.0
7.5°	2534.9	2328.7	1990.2	1817.2	1743.3	1725.5	1733.2	1748.4	1750.9	1756.0	1753.5
10°	2606.1	2331.2	1939.3	1794.2	1758.6	1761.1	1786.6	1807.0	1817.2	1824.8	1822.3
12.5°	2705.3	2361.8	1931.7	1809.5	1794.2	1804.4	1829.9	1850.2	1860.4	1863.0	1863.0
15°	2835.2	2425.4	1949.5	1842.6	1829.9	1837.5	1852.8	1860.4	1863.0	1860.4	1860.4
17.5°	2977.7	2501.8	1975.0	1863.0	1842.6	1835.0	1829.9	1822.3	1807.0	1796.8	1796.8
20°	3115.1	2570.5	1987.6	1860.4	1824.8	1794.2	1763.7	1725.5	1700.0	1679.7	1679.7
22.5°	3252.6	2634.1	1987.6	1832.5	1776.5	1717.9	1654.2	1593.2	1555.0	1529.6	1529.6
25°	3397.6	2695.2	1972.4	1784.1	1700.0	1616.1	1529.6	1453.2	1415.0	1389.6	1384.5
27.5°	3519.7	2730.8	1931.7	1715.3	1605.9	1499.1	1399.8	1320.8	1292.9	1269.9	1269.9
30°	3649.6	2753.7	1855.3	1626.3	1499.1	1376.8	1275.0	1211.5	1180.9	1147.8	1145.3
32.5°	3794.7	2769.0	1768.8	1532.1	1389.6	1259.8	1173.2	1122.4	1056.2	1020.6	1015.5
35°	3962.6	2789.4	1677.2	1425.2	1280.1	1163.1	1112.2	1028.2	964.6	934.0	931.5
37.5°	4140.7	2804.6	1577.9	1331.0	1180.9	1099.5	1048.5	949.3	893.3	847.5	842.4
40°	4329.1	2804.6	1476.1	1239.4	1102.0	1071.5	974.8	885.7	791.5	768.6	763.5
42.5°	4537.8	2799.5	1374.3	1150.4	1028.2	1007.8	931.5	837.3	789.0	768.6	763.5
45°	4759.2	2781.7	1277.6	1048.5	951.8	911.1	852.6	827.2	806.8	806.8	806.8
47.5°	5011.2	2766.4	1168.2	956.9	895.8	850.0	806.8	791.5	789.0	796.6	804.2
50°	5334.4	2761.3	1076.5	890.7	852.6	799.1	794.0	781.4	783.9	783.9	783.9
52.5°	5726.3	2715.5	990.0	842.4	809.3	745.7	761.0	773.7	778.8	776.3	773.7
55°	6013.9	2634.1	916.2	809.3	778.8	725.4	745.7	766.1	771.2	763.5	763.5
57.5°	6273.5	2519.6	857.7	783.9	758.4	712.6	735.6	755.9	750.8	748.2	745.7
60°	6571.2	2410.2	811.9	771.2	738.1	707.5	727.9	740.6	733.0	727.9	725.4
62.5°	6894.5	2303.3	778.8	771.2	722.8	704.9	720.3	725.4	710.1	704.9	704.9
65°	7044.7	2135.3	743.1	771.2	715.2	699.8	704.9	699.8	684.6	684.6	682.1
67.5°	6797.8	1857.9	697.3	761.0	725.4	692.3	682.1	674.4	656.6	656.6	651.5
70°	6115.7	1527.0	631.2	727.9	727.9	689.7	651.5	633.7	613.3	621.0	610.8
72.5°	5225.0	1211.5	549.7	671.9	712.6	687.2	618.4	590.5	572.6	580.3	565.0
75°	4232.3	939.1	453.0	582.8	674.4	674.4	585.4	547.2	526.8	526.8	509.0
77.5°	2697.7	694.8	369.0	483.6	605.7	656.6	557.3	498.8	468.3	460.6	448.0
80°	1336.1	488.7	302.9	384.3	516.6	615.9	537.0	442.9	399.6	384.3	361.4
82.5°	710.1	338.5	241.8	300.3	412.3	554.8	511.5	381.8	328.3	305.4	279.9
85°	318.1	208.7	193.4	229.0	313.0	455.5	460.6	313.0	252.0	300.3	221.4
87.5°	117.1	94.2	94.2	117.1	180.7	190.9	325.7	201.1	160.4	109.5	86.5
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)