

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: P380870

Luminaire Tested: **PRV-PA2A-8540-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P380870
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-PA2A-8540-U-T2R
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 85 CRI, 4000K, 720mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12380 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 112
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

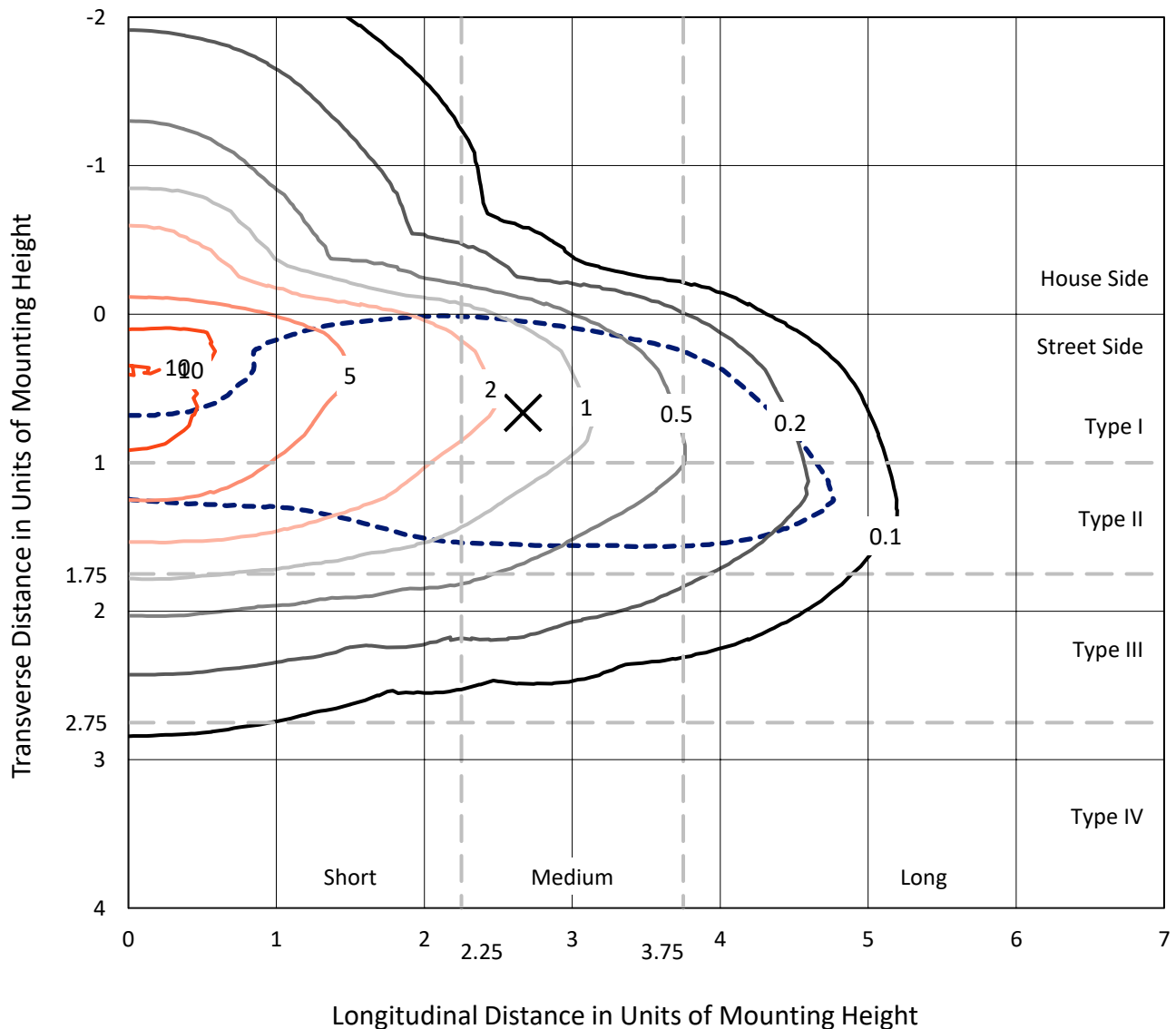


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

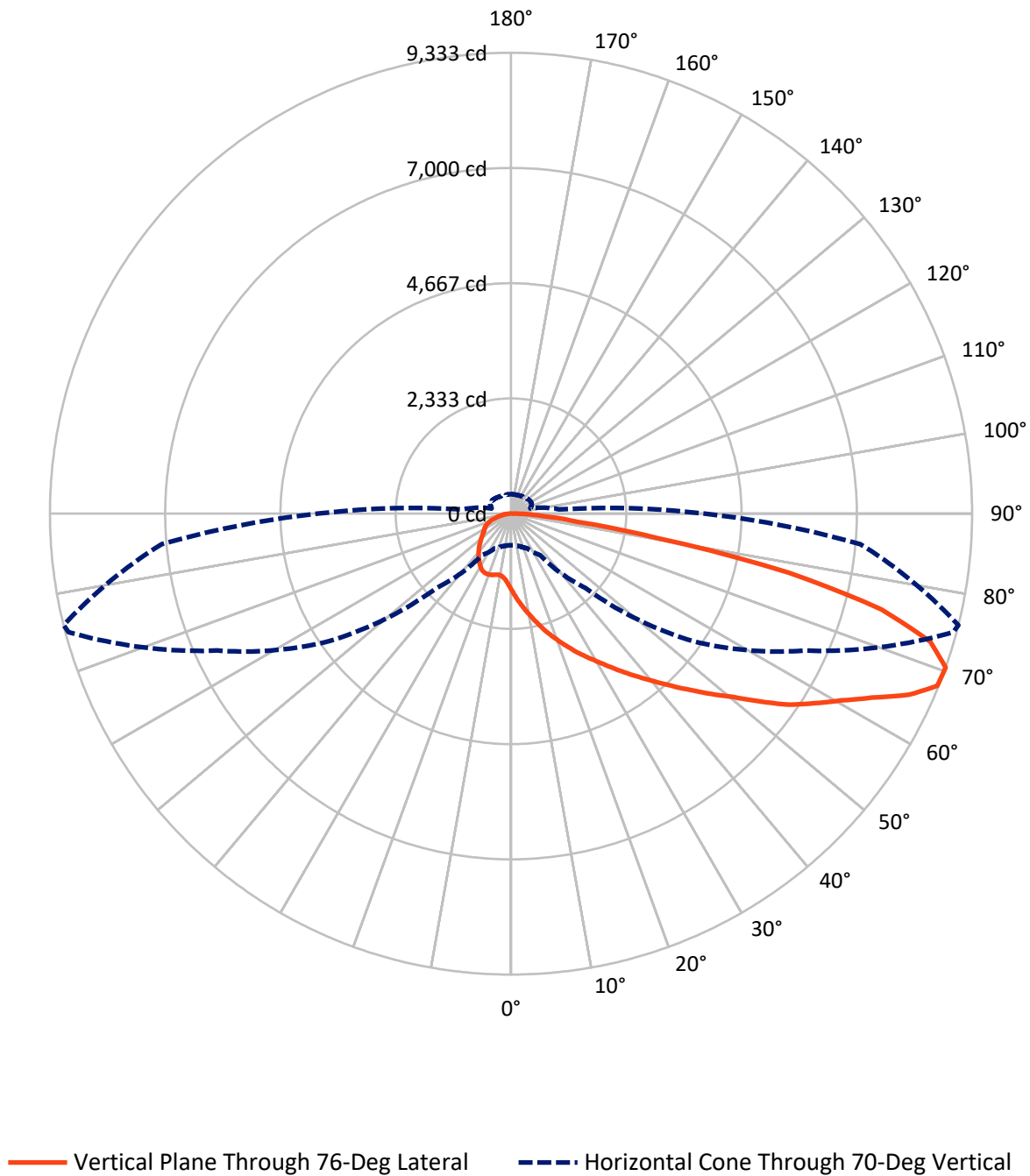


Based on 15 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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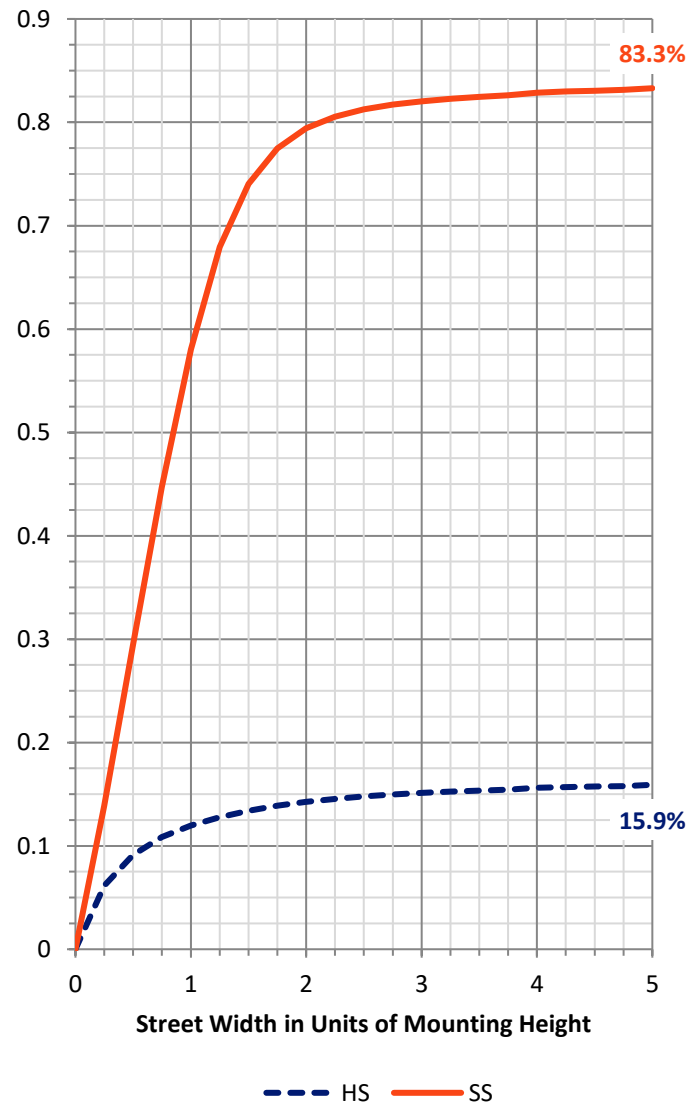
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2021.2	0.0	2021.2
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	10358.9	0.0	10358.9
	% Fixture	83.7	0.0	83.7
Total	Lumens	12380.0	0.0	12380.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.9	1.3
10°-20°	546.7	4.4
20°-30°	978.2	7.9
30°-40°	1582.3	12.8
40°-50°	2289.0	18.5
50°-60°	2619.9	21.2
60°-70°	2410.1	19.5
70°-80°	1490.3	12.0
80°-90°	302.6	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°	12380.0	100.0
0°-180°	12380.0	100.0

Coefficient of Utilization



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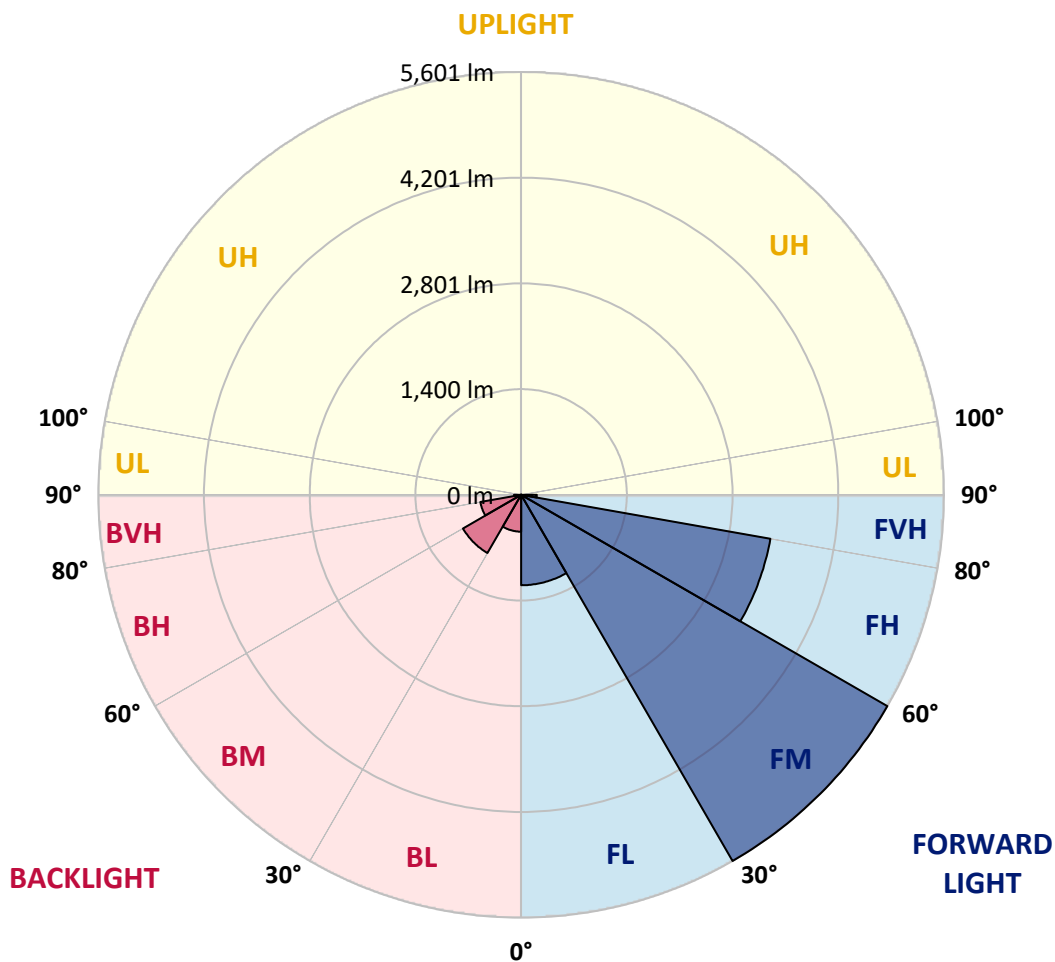
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1197.6	9.7			
FM	(30°-60°)	5601.4	45.2			
FH	(60°-80°)	3352.2	27.1			G2/5000
FVH	(80°-90°)	207.8	1.7			G2/225
BL	(0°-30°)	488.2	3.9	B1/500		
BM	(30°-60°)	889.9	7.2	B1/1000		
BH	(60°-80°)	548.2	4.4	B2/1000		G2/1000
BVH	(80°-90°)	94.9	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1548.1	1548.1	1548.1	1548.1	1548.1	1548.1	1548.1	1548.1	1548.1	1548.1	1548.1
2.5°	1973.1	1958.4	1956.8	1934.0	1912.9	1855.9	1815.2	1743.5	1671.9	1670.3	1598.7
5°	2280.7	2266.1	2257.9	2230.3	2194.4	2119.6	2046.3	1935.7	1813.5	1805.4	1670.3
7.5°	2489.2	2476.1	2459.8	2448.4	2414.2	2347.5	2257.9	2126.1	1958.4	1942.2	1753.3
10°	2629.2	2621.0	2617.7	2609.6	2588.4	2534.7	2448.4	2308.4	2103.3	2085.4	1841.2
12.5°	2689.4	2686.1	2700.7	2723.6	2731.7	2710.5	2627.5	2495.7	2262.9	2243.3	1947.0
15°	2619.4	2622.6	2660.1	2738.2	2821.2	2866.8	2817.9	2689.4	2443.5	2415.9	2070.7
17.5°	2586.8	2591.7	2617.7	2692.6	2809.8	2951.4	2974.2	2873.3	2617.7	2578.7	2201.0
20°	2643.8	2650.3	2669.8	2728.4	2809.8	2961.2	3080.1	3049.2	2788.7	2747.9	2326.3
22.5°	2788.7	2796.8	2795.2	2832.7	2887.9	2992.2	3138.7	3215.2	2967.7	2922.2	2456.6
25°	3097.9	3091.4	3036.1	3018.2	3032.9	3099.6	3216.8	3374.7	3154.9	3109.4	2593.3
27.5°	3518.0	3509.9	3408.9	3317.7	3236.4	3265.7	3327.5	3503.3	3345.4	3293.3	2723.6
30°	3967.3	3957.5	3840.3	3692.2	3511.4	3469.2	3461.0	3615.7	3537.5	3482.2	2861.9
32.5°	4405.2	4397.1	4271.7	4099.2	3850.1	3723.1	3644.9	3741.0	3755.7	3701.9	3013.3
35°	4804.1	4804.1	4696.6	4491.5	4209.9	4017.7	3889.2	3895.7	4006.4	3944.5	3185.9
37.5°	5159.0	5157.3	5040.1	4838.2	4568.0	4348.2	4188.7	4082.9	4245.7	4191.9	3366.6
40°	5440.6	5429.2	5342.9	5167.1	4895.2	4677.1	4515.9	4302.7	4512.7	4463.8	3558.7
42.5°	5645.7	5639.2	5580.6	5427.6	5168.7	4963.6	4852.9	4579.4	4815.4	4766.6	3783.4
45°	5725.5	5738.5	5738.5	5593.6	5388.5	5201.3	5152.5	4883.8	5142.7	5093.8	4024.3
47.5°	5596.9	5631.0	5701.0	5710.8	5530.1	5403.2	5419.5	5189.9	5479.7	5453.6	4288.0
50°	5194.7	5258.2	5411.3	5688.0	5587.1	5557.8	5647.3	5502.5	5841.0	5832.9	4608.7
52.5°	4157.7	4312.5	4789.4	5286.0	5548.0	5629.5	5873.6	5854.1	6306.7	6319.7	5027.1
55°	3189.2	3247.7	3799.6	4644.5	5308.7	5606.7	6025.0	6197.6	6811.3	6827.6	5411.3
57.5°	2578.7	2617.7	2918.9	3799.6	4763.4	5482.9	6143.9	6397.8	7198.7	7241.1	5753.2
60°	2043.1	2100.1	2301.9	2907.5	3999.9	5185.0	6226.9	6620.8	7615.5	7679.0	6161.7
62.5°	1518.9	1546.6	1737.0	2153.8	3166.4	4649.4	6183.0	6863.4	8126.7	8203.2	6653.4
65°	1080.9	1105.4	1240.5	1531.9	2341.0	3924.9	5927.3	7044.1	8768.1	8846.3	7148.3
67.5°	809.1	818.9	895.4	1071.2	1577.5	3049.2	5409.7	7013.2	9237.0	9307.0	7346.9
70°	639.8	643.0	680.5	774.9	1025.6	2122.9	4502.9	6559.0	9271.1	9333.0	7096.2
72.5°	530.7	529.1	550.2	595.9	714.6	1343.1	3335.7	5715.7	8831.6	8873.9	6396.2
75°	437.9	441.1	455.9	481.9	545.4	885.6	2161.9	4559.9	7791.3	7745.7	5367.3
77.5°	367.9	366.3	372.8	395.6	441.1	636.5	1266.5	3294.9	5774.3	5751.5	3522.9
80°	296.3	299.6	309.3	328.9	371.1	485.1	748.9	2056.1	3097.9	3014.9	1683.3
82.5°	198.6	229.6	249.1	271.9	320.7	358.1	475.4	1045.1	1385.4	1364.2	763.5
85°	94.4	125.4	185.6	211.6	260.5	224.6	322.4	498.1	693.5	685.4	275.1
87.5°	19.5	19.5	99.3	118.9	161.1	96.1	179.1	216.5	335.4	314.2	112.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1548.1	1548.1	1548.1	1548.1	1548.1	1548.1	1548.1	1548.1	1548.1	1548.1	1548.1
2.5°	1556.3	1512.4	1424.4	1354.4	1282.8	1242.2	1191.6	1167.2	1162.4	1149.4	1159.1
5°	1584.0	1497.7	1331.6	1222.6	1149.4	1113.5	1095.6	1089.1	1087.4	1084.2	1084.2
7.5°	1621.4	1489.6	1273.1	1162.4	1115.1	1103.7	1108.6	1118.4	1120.0	1123.3	1121.6
10°	1667.0	1491.2	1240.5	1147.7	1124.9	1126.5	1142.8	1155.9	1162.4	1167.2	1165.6
12.5°	1730.5	1510.7	1235.6	1157.4	1147.7	1154.2	1170.5	1183.5	1190.0	1191.6	1191.6
15°	1813.5	1551.4	1247.0	1178.6	1170.5	1175.4	1185.1	1190.0	1191.6	1190.0	1190.0
17.5°	1904.7	1600.3	1263.3	1191.6	1178.6	1173.7	1170.5	1165.6	1155.9	1149.4	1149.4
20°	1992.6	1644.2	1271.4	1190.0	1167.2	1147.7	1128.1	1103.7	1087.4	1074.4	1074.4
22.5°	2080.5	1684.9	1271.4	1172.2	1136.3	1098.9	1058.1	1019.1	994.6	978.4	978.4
25°	2173.3	1724.0	1261.6	1141.2	1087.4	1033.7	978.4	929.6	905.1	888.9	885.6
27.5°	2251.4	1746.8	1235.6	1097.2	1027.2	958.9	895.4	844.9	827.0	812.4	812.4
30°	2334.4	1761.4	1186.8	1040.3	958.9	880.7	815.6	774.9	755.4	734.2	732.6
32.5°	2427.3	1771.2	1131.4	980.0	888.9	805.9	750.5	717.9	675.6	652.8	649.6
35°	2534.7	1784.2	1072.8	911.6	818.9	744.0	711.4	657.7	617.0	597.4	595.9
37.5°	2648.7	1794.0	1009.3	851.4	755.4	703.3	670.7	607.2	571.4	542.1	538.9
40°	2769.2	1794.0	944.2	792.8	704.9	685.4	623.5	566.5	506.3	491.6	488.4
42.5°	2902.7	1790.7	879.1	735.9	657.7	644.6	595.9	535.6	504.6	491.6	488.4
45°	3044.2	1779.4	817.2	670.7	608.9	582.8	545.4	529.1	516.1	516.1	516.1
47.5°	3205.4	1769.6	747.2	612.1	573.0	543.7	516.1	506.3	504.6	509.6	514.4
50°	3412.2	1766.3	688.6	569.8	545.4	511.1	507.9	499.8	501.4	501.4	501.4
52.5°	3662.9	1737.0	633.3	538.9	517.7	477.0	486.8	494.9	498.1	496.5	494.9
55°	3846.8	1684.9	586.1	517.7	498.1	463.9	477.0	490.0	493.3	488.4	488.4
57.5°	4012.9	1611.6	548.6	501.4	485.1	455.9	470.5	483.5	480.2	478.6	477.0
60°	4203.4	1541.6	519.3	493.3	472.1	452.6	465.6	473.7	468.9	465.6	463.9
62.5°	4410.1	1473.3	498.1	493.3	462.4	450.9	460.7	463.9	454.2	450.9	450.9
65°	4506.2	1365.9	475.4	493.3	457.4	447.7	450.9	447.7	437.9	437.9	436.3
67.5°	4348.2	1188.4	446.1	486.8	463.9	442.8	436.3	431.4	420.0	420.0	416.8
70°	3911.9	976.8	403.7	465.6	465.6	441.1	416.8	405.4	392.4	397.2	390.7
72.5°	3342.2	774.9	351.6	429.8	455.9	439.6	395.6	377.7	366.3	371.1	361.4
75°	2707.3	600.7	289.8	372.8	431.4	431.4	374.4	350.0	337.0	337.0	325.6
77.5°	1725.7	444.4	236.1	309.3	387.4	420.0	356.5	319.1	299.6	294.6	286.5
80°	854.6	312.6	193.7	245.8	330.5	393.9	343.5	283.3	255.6	245.8	231.1
82.5°	454.2	216.5	154.6	192.1	263.7	354.9	327.2	244.2	210.0	195.4	179.1
85°	203.5	133.5	123.7	146.5	200.2	291.4	294.6	200.2	161.1	192.1	141.6
87.5°	74.9	60.2	60.2	74.9	115.6	122.1	208.4	128.6	102.6	70.0	55.4
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)