

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: P381128

Luminaire Tested: **PRV-XL-PA3A-8540-U-T2U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381128
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
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-T2U
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(3) 85 CRI, 4000K, 750mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19333.9 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - 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

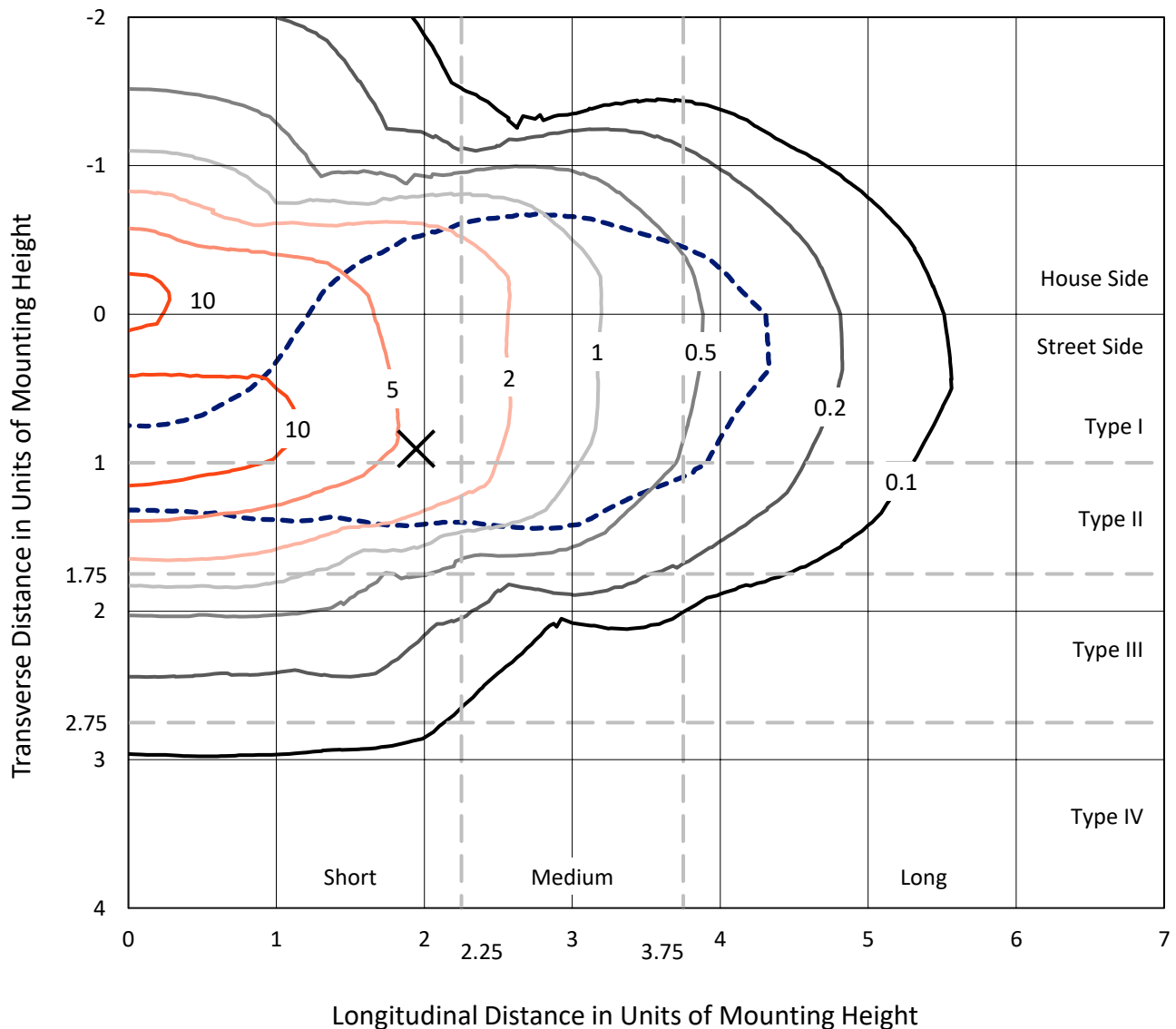


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

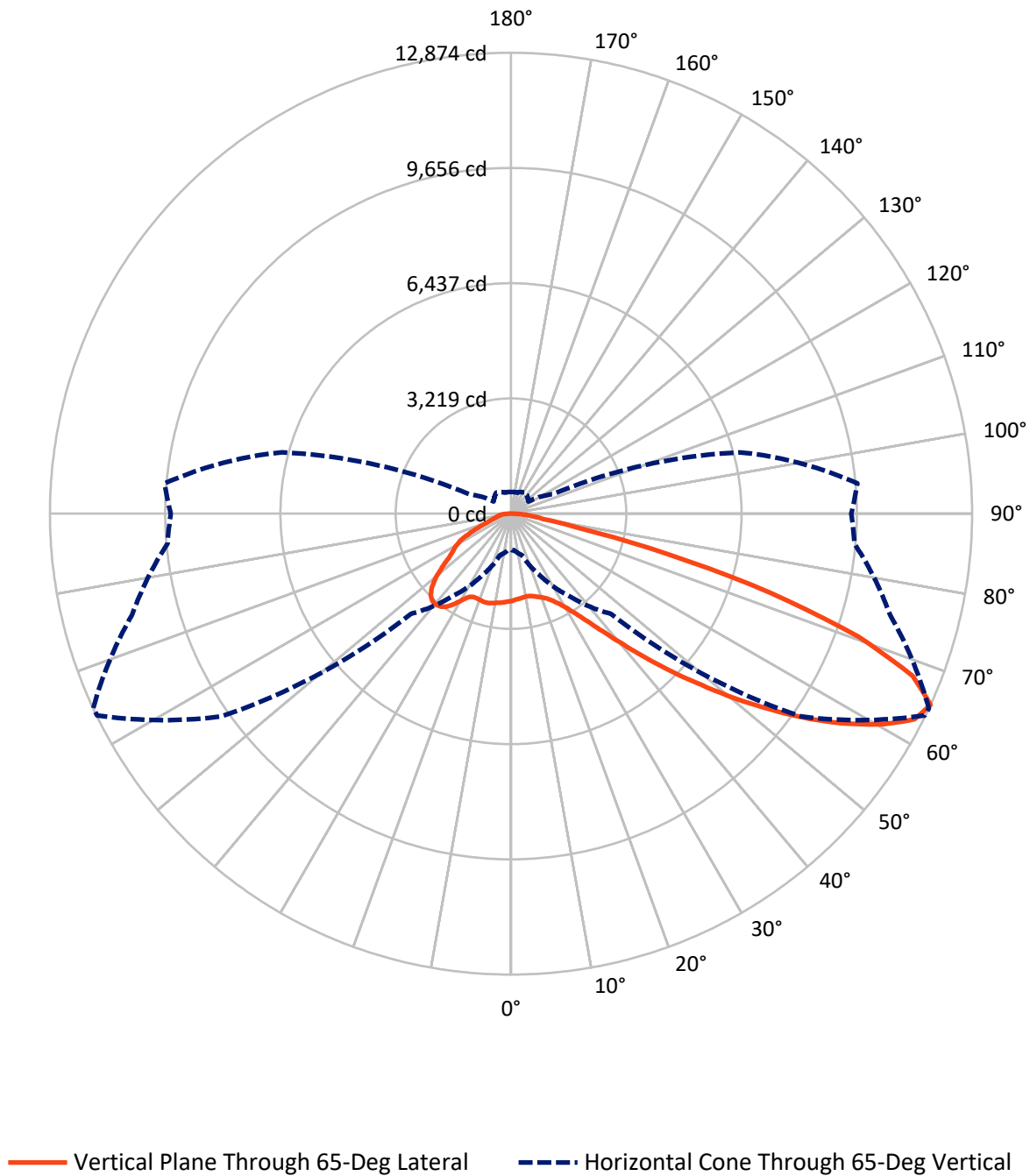


Based on 15 foot mounting height. Maximum calculated value = 14.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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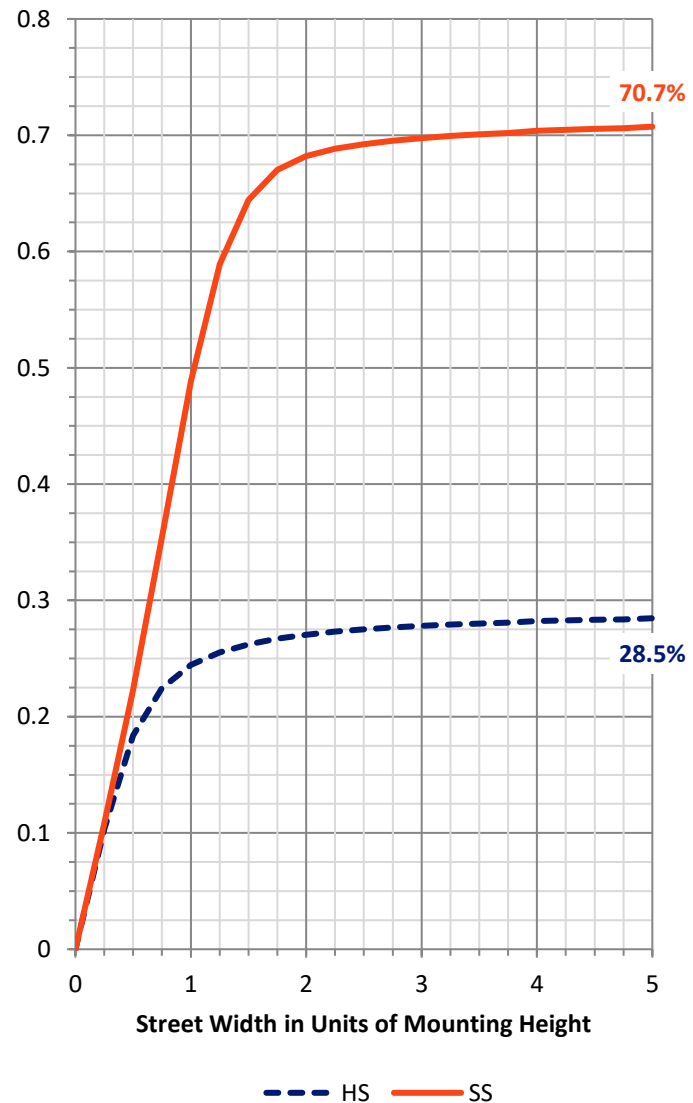
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5589.7	0.0	5589.7
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	13744.1	0.0	13744.1
	% Fixture	71.1	0.0	71.1
Total	Lumens	19333.9	0.0	19333.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.7	1.2
10°-20°	694.9	3.6
20°-30°	1234.3	6.4
30°-40°	2088.2	10.8
40°-50°	3635.1	18.8
50°-60°	4697.8	24.3
60°-70°	4110.8	21.3
70°-80°	2236.0	11.6
80°-90°	404.0	2.1
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°	19333.9	100.0
0°-180°	19333.9	100.0

Coefficient of Utilization



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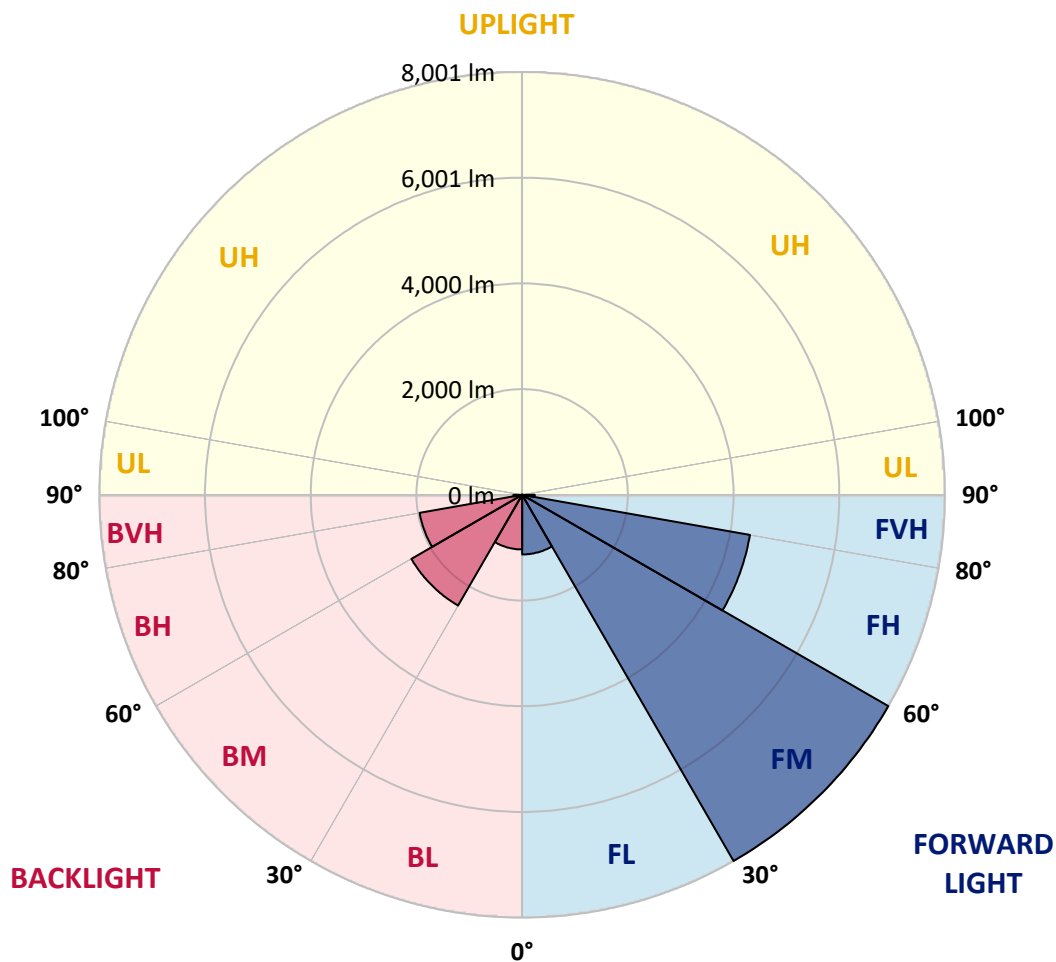
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1128.1	5.8			
FM	(30°-60°)	8000.9	41.4			
FH	(60°-80°)	4377.5	22.6			G2/5000
FVH	(80°-90°)	237.7	1.2			G3/500
BL	(0°-30°)	1033.9	5.3	B3/2500		
BM	(30°-60°)	2420.2	12.5	B2/2500		
BH	(60°-80°)	1969.3	10.2	B3/2500		G3/2500
BVH	(80°-90°)	166.3	0.9			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2443.0	2443.0	2443.0	2443.0	2443.0	2443.0	2443.0	2443.0	2443.0	2443.0	2443.0
2.5°	2399.7	2397.2	2392.1	2397.2	2399.7	2404.8	2402.3	2407.4	2404.8	2412.5	2425.2
5°	2338.7	2333.6	2331.1	2343.8	2351.4	2364.1	2369.2	2387.1	2384.5	2397.2	2417.6
7.5°	2270.0	2270.0	2267.4	2282.7	2292.9	2315.8	2333.6	2364.1	2366.7	2389.6	2412.5
10°	2216.5	2219.1	2216.5	2229.3	2244.5	2272.5	2303.0	2346.3	2348.8	2382.0	2404.8
12.5°	2196.2	2196.2	2196.2	2214.0	2234.4	2272.5	2308.1	2353.9	2359.0	2394.6	2415.0
15°	2224.2	2226.7	2221.6	2239.5	2262.3	2308.1	2341.2	2389.6	2394.6	2427.8	2440.5
17.5°	2323.4	2333.6	2320.9	2331.1	2326.0	2361.6	2392.1	2440.5	2443.0	2471.0	2476.1
20°	2519.4	2529.6	2509.2	2496.4	2450.6	2448.1	2460.8	2499.0	2499.0	2516.8	2504.1
22.5°	2822.2	2832.3	2796.7	2748.4	2638.9	2585.5	2557.5	2575.4	2572.8	2580.5	2547.3
25°	3224.2	3221.7	3178.4	3089.4	2913.8	2784.0	2715.3	2687.3	2687.3	2672.1	2631.3
27.5°	3723.1	3684.9	3608.5	3501.7	3257.4	3076.6	2929.0	2857.8	2845.1	2799.3	2723.0
30°	4254.9	4226.9	4117.5	3962.3	3679.8	3448.3	3203.9	3061.4	3053.8	2954.5	2840.0
32.5°	4880.9	4835.1	4713.0	4527.2	4188.7	3863.0	3557.6	3341.3	3328.6	3170.8	3013.1
35°	5685.1	5646.9	5410.3	5224.5	4789.3	4361.8	4000.4	3712.9	3702.7	3509.3	3308.3
37.5°	6649.5	6550.3	6321.3	5972.6	5514.6	5008.1	4550.1	4188.7	4176.1	3962.3	3707.8
40°	7509.8	7420.6	7217.1	6896.4	6405.3	5842.9	5222.0	4784.2	4771.5	4512.0	4191.3
42.5°	8145.9	8084.9	7952.5	7766.7	7415.6	7074.6	6079.5	5504.4	5481.5	5145.6	4746.1
45°	8515.0	8466.6	8390.2	8436.0	8431.0	8367.3	7102.6	6362.0	6288.2	5853.1	5364.5
47.5°	8425.9	8382.6	8413.1	8769.4	9260.5	9629.6	8293.5	7240.0	7140.7	6573.2	6023.5
50°	7782.0	7799.9	7960.1	8642.2	9744.0	10563.5	9614.3	8240.1	8107.7	7298.5	6649.5
52.5°	6608.8	6652.1	7041.5	7995.8	9690.6	11169.2	10807.8	9273.3	9097.7	8005.9	7219.7
55°	5249.9	5359.4	5863.3	6865.9	8993.4	11212.4	11708.7	10311.6	10118.2	8670.2	7715.8
57.5°	3883.4	4046.2	4629.0	5550.2	7657.3	10527.9	12159.1	11304.0	11069.9	9329.3	8240.1
60°	2463.4	2562.6	3234.4	4321.1	5860.7	8853.4	12100.6	12148.9	11945.4	9985.8	8787.2
62.5°	1572.7	1621.0	1959.5	3081.7	4097.1	6555.4	11461.8	12787.6	12650.2	10583.9	9306.3
65°	1010.3	1030.7	1203.7	1895.9	2789.1	3957.2	9871.3	12856.4	12874.2	10957.9	9627.0
67.5°	822.0	832.2	895.8	1170.6	1972.2	2186.0	6876.1	11879.2	12095.5	10861.2	9517.6
70°	748.2	760.9	827.1	934.0	1526.9	1509.1	3328.6	9940.0	10293.8	10304.0	9031.5
72.5°	631.1	649.0	738.0	883.1	1180.8	1190.9	1409.8	7079.7	7601.4	9209.6	8301.1
75°	526.8	537.0	613.3	778.7	1000.1	951.7	989.9	3753.6	4506.9	7385.0	7525.0
77.5°	427.5	437.7	493.7	620.9	888.2	740.6	778.7	1554.9	1921.3	5013.2	6150.8
80°	305.4	315.5	379.2	483.5	671.8	666.7	577.7	857.6	931.4	2710.2	3995.3
82.5°	218.8	226.5	287.6	346.1	465.7	669.3	435.2	582.8	610.7	1201.1	1610.9
85°	147.6	147.6	198.5	229.0	300.3	422.4	351.2	394.5	412.2	570.0	435.2
87.5°	63.7	63.7	106.9	117.1	157.8	196.0	262.1	198.5	203.6	308.0	178.1
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°	2443.0	2443.0	2443.0	2443.0	2443.0	2443.0	2443.0	2443.0	2443.0	2443.0	2443.0
2.5°	2432.9	2435.4	2440.5	2455.7	2465.9	2481.2	2488.8	2499.0	2499.0	2493.9	2496.4
5°	2427.8	2435.4	2453.2	2481.2	2499.0	2527.0	2547.3	2562.6	2567.7	2562.6	2565.2
7.5°	2425.2	2437.9	2468.5	2509.2	2534.6	2570.3	2598.2	2616.1	2628.8	2623.7	2626.3
10°	2417.6	2437.9	2476.1	2527.0	2565.2	2600.8	2626.3	2633.9	2641.5	2636.4	2633.9
12.5°	2427.8	2450.6	2491.3	2552.4	2595.7	2623.7	2631.3	2618.6	2600.8	2590.6	2588.0
15°	2448.1	2471.0	2511.7	2575.4	2613.5	2623.7	2605.9	2565.2	2524.5	2501.5	2499.0
17.5°	2476.1	2491.3	2524.5	2580.5	2611.0	2598.2	2562.6	2514.3	2483.8	2465.9	2468.5
20°	2493.9	2493.9	2519.4	2562.6	2588.0	2577.9	2534.6	2481.2	2432.9	2409.9	2402.3
22.5°	2519.4	2506.6	2509.2	2547.3	2583.0	2567.7	2476.1	2382.0	2313.2	2287.8	2285.3
25°	2588.0	2552.4	2529.6	2552.4	2636.4	2511.7	2328.5	2219.1	2155.4	2132.6	2135.1
27.5°	2672.1	2623.7	2575.4	2613.5	2679.7	2384.5	2140.2	2015.5	1977.3	1959.5	1967.1
30°	2756.0	2692.4	2628.8	2766.2	2649.1	2186.0	1898.5	1776.3	1743.2	1730.5	1740.7
32.5°	2911.3	2806.9	2730.6	2969.8	2555.0	1959.5	1636.3	1524.3	1493.8	1478.5	1473.4
35°	3170.8	3038.5	2962.2	3147.9	2422.7	1707.6	1397.1	1318.2	1285.1	1252.0	1246.9
37.5°	3545.0	3384.6	3315.8	3249.7	2236.9	1458.2	1213.9	1160.4	1112.1	1061.2	1058.6
40°	3992.8	3784.2	3733.3	3295.5	1979.9	1224.1	1086.6	1035.8	974.7	926.3	928.9
42.5°	4509.4	4242.2	4132.8	3282.8	1661.8	1099.3	995.0	939.1	885.6	842.4	839.8
45°	5061.6	4758.8	4506.9	3193.7	1346.2	1012.8	939.1	872.9	819.4	771.1	766.0
47.5°	5672.4	5334.0	4853.0	3020.7	1112.1	951.7	905.9	811.8	763.4	732.9	732.9
50°	6288.2	5883.6	5171.1	2758.6	974.7	905.9	857.6	778.7	740.6	715.1	715.1
52.5°	6815.0	6456.1	5433.2	2445.5	888.2	867.8	824.5	763.4	722.7	699.8	697.3
55°	7326.5	6988.0	5667.3	2135.1	816.9	816.9	816.9	750.7	704.9	684.6	682.0
57.5°	7835.5	7547.9	5911.6	1931.5	753.2	773.6	801.6	735.5	689.7	671.8	669.3
60°	8410.6	8219.7	6194.1	1789.0	697.3	727.8	781.3	717.6	664.2	649.0	646.4
62.5°	9021.3	9021.3	6451.1	1587.9	646.4	689.7	750.7	694.8	641.3	628.6	626.0
65°	9499.7	9705.9	6616.5	1287.6	595.5	651.5	715.1	664.2	610.7	608.2	603.1
67.5°	9555.7	9879.0	6512.1	972.1	549.7	610.7	679.5	631.1	580.2	580.2	572.6
70°	9153.7	9482.0	6186.4	727.8	516.6	570.0	633.7	590.4	542.1	547.2	534.4
72.5°	8481.8	8563.3	5377.2	575.1	478.4	526.8	577.7	544.6	501.4	501.4	483.5
75°	7596.3	7143.3	3906.3	481.0	432.6	475.9	521.7	493.7	455.5	442.8	432.6
77.5°	6046.5	5176.2	2270.0	414.8	394.5	427.5	458.1	437.7	404.7	376.6	376.6
80°	3684.9	3033.4	1002.6	358.8	348.7	374.1	394.5	371.5	343.6	315.5	308.0
82.5°	1402.2	1170.6	486.1	308.0	305.4	320.6	335.9	313.0	292.7	279.9	241.8
85°	384.3	353.8	333.4	257.1	252.0	249.4	267.2	257.1	229.0	188.3	168.0
87.5°	145.1	165.4	180.7	157.8	168.0	155.3	178.1	162.9	145.1	94.2	84.0
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)