

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: P381385

Luminaire Tested: **PRV-XL-PA3B-8540-U-T2U-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381385
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-PA3B-8540-U-T2U-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(3) 85 CRI, 4000K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16714.7 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 234
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

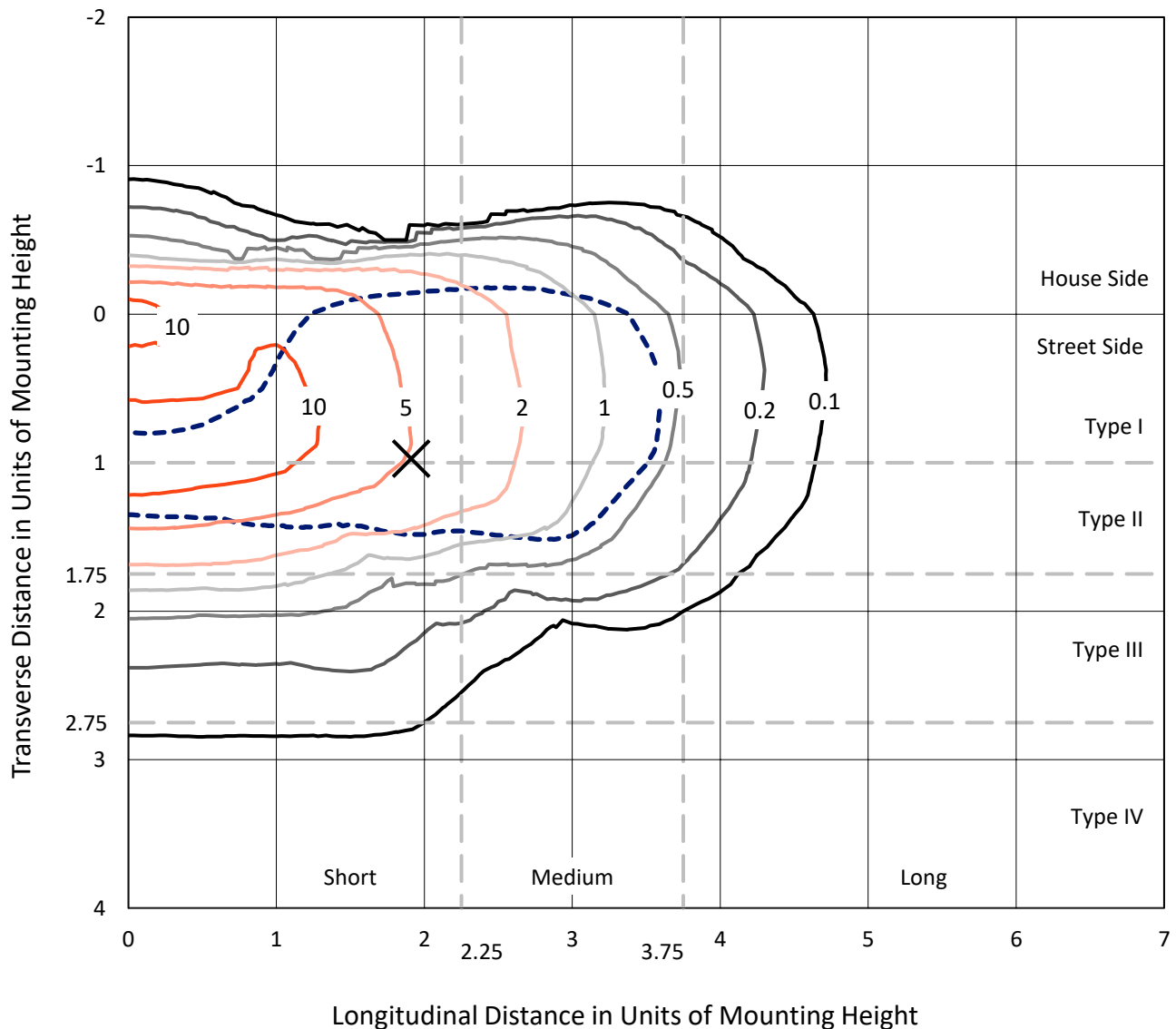


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

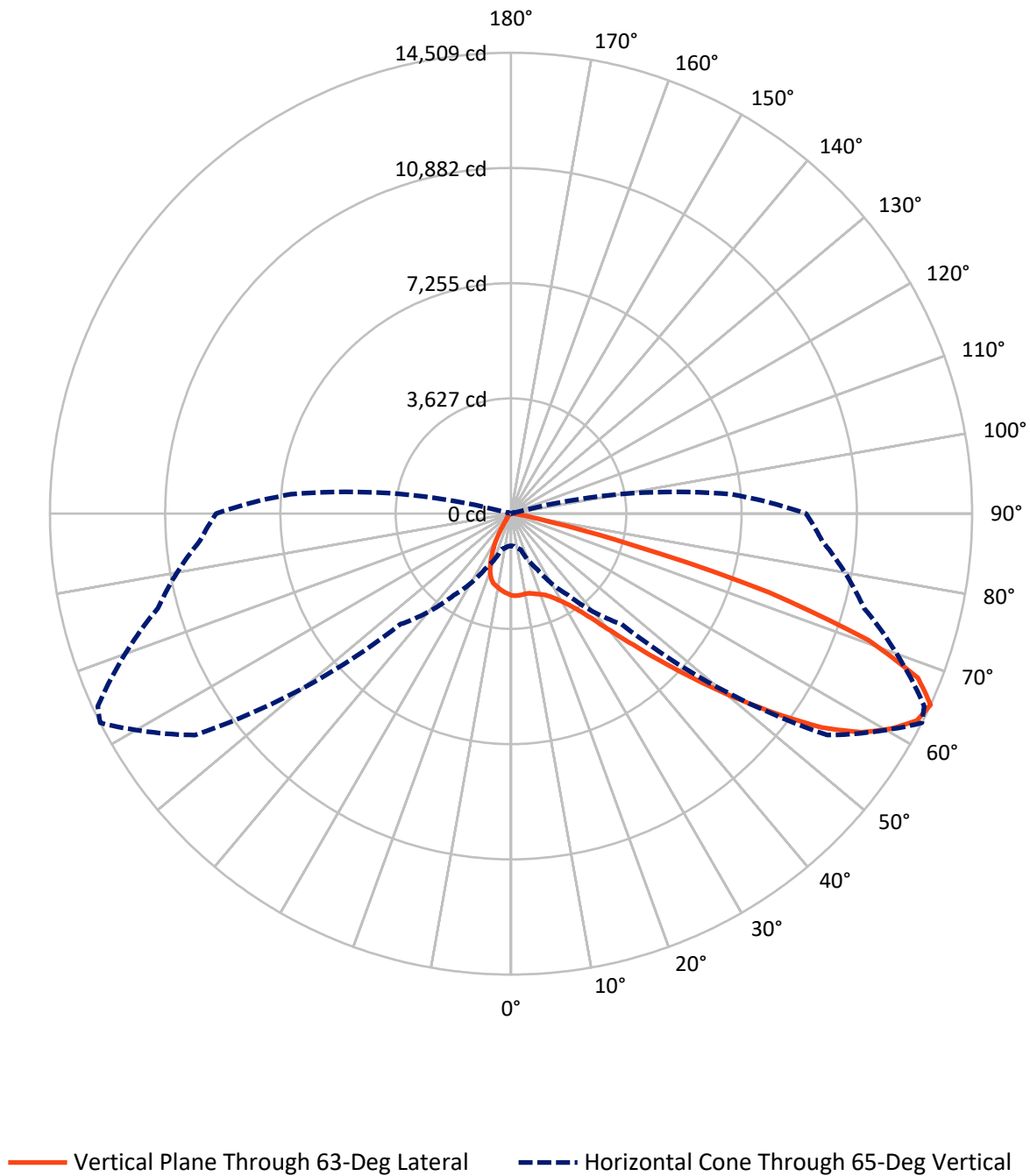


Based on 15 foot mounting height. Maximum calculated value = 16 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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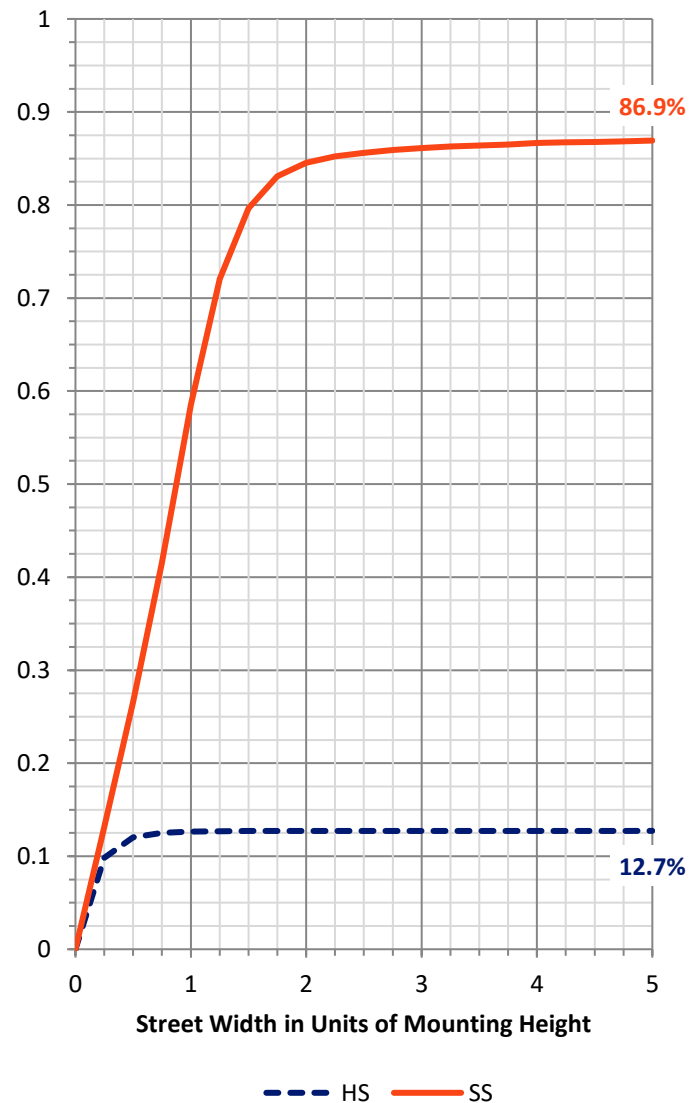
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2151.2	0.0	2151.2
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	14563.5	0.0	14563.5
	% Fixture	87.1	0.0	87.1
Total	Lumens	16714.7	0.0	16714.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.0	1.4
10°-20°	579.6	3.5
20°-30°	859.1	5.1
30°-40°	1595.1	9.5
40°-50°	3379.1	20.2
50°-60°	4672.5	28.0
60°-70°	3740.5	22.4
70°-80°	1554.1	9.3
80°-90°	99.8	0.6
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°	16714.7	100.0
0°-180°	16714.7	100.0

Coefficient of Utilization



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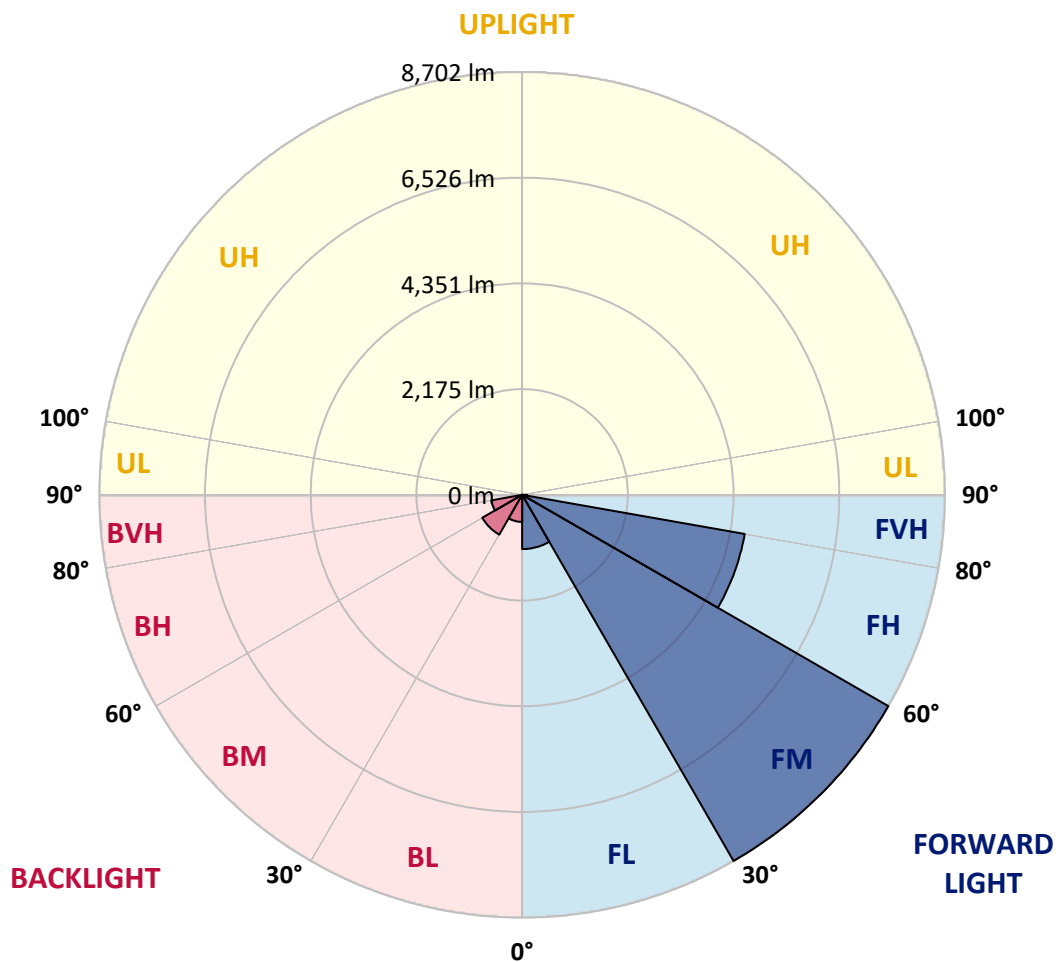
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1116.1	6.7			
FM	(30°-60°)	8701.8	52.1			
FH	(60°-80°)	4650.4	27.8			G2/5000
FVH	(80°-90°)	95.2	0.6			G1/100
BL	(0°-30°)	557.5	3.3	B2/1000		
BM	(30°-60°)	945.0	5.7	B1/1000		
BH	(60°-80°)	644.1	3.9	B2/1000		G2/1000
BVH	(80°-90°)	4.5	0.0			G0/10
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2574.9	2574.9	2574.9	2574.9	2574.9	2574.9	2574.9	2574.9	2574.9	2574.9	2574.9
2.5°	2619.1	2612.8	2606.5	2603.3	2603.3	2600.2	2587.5	2584.4	2578.0	2571.8	2565.4
5°	2593.8	2584.4	2581.2	2584.4	2587.5	2593.8	2587.5	2587.5	2581.2	2574.9	2562.3
7.5°	2530.7	2524.4	2527.6	2537.1	2540.2	2562.3	2565.4	2574.9	2574.9	2568.6	2559.2
10°	2455.0	2451.8	2451.8	2467.6	2483.4	2514.9	2537.1	2562.3	2565.4	2565.4	2549.7
12.5°	2398.2	2395.0	2404.5	2423.5	2455.0	2496.0	2533.9	2571.8	2578.0	2581.2	2555.9
15°	2363.5	2363.5	2376.1	2414.0	2458.2	2514.9	2559.2	2609.6	2615.9	2612.8	2578.0
17.5°	2331.9	2335.1	2360.4	2423.5	2474.0	2549.7	2603.3	2660.1	2663.3	2660.1	2603.3
20°	2319.3	2325.6	2363.5	2445.5	2502.3	2587.5	2657.0	2713.7	2716.9	2704.2	2628.5
22.5°	2354.0	2357.1	2404.5	2492.8	2546.5	2641.1	2729.5	2783.2	2786.3	2767.4	2666.4
25°	2474.0	2474.0	2514.9	2590.7	2638.0	2732.7	2827.3	2890.4	2890.4	2868.4	2751.6
27.5°	2754.8	2729.5	2720.1	2742.1	2758.0	2858.9	2959.9	3038.7	3035.6	3004.1	2862.1
30°	3297.5	3234.4	3133.4	3019.9	2963.0	3032.5	3127.1	3228.1	3224.9	3174.4	2997.7
32.5°	4209.5	4118.0	3878.1	3578.4	3335.4	3256.5	3344.8	3455.3	3458.4	3398.5	3215.5
35°	5487.4	5342.3	4913.2	4496.6	3941.2	3641.5	3666.7	3786.7	3824.5	3792.9	3581.5
37.5°	6718.1	6585.6	6175.4	5597.9	4843.7	4231.6	4124.3	4228.4	4272.6	4272.6	4048.5
40°	7958.3	7803.6	7440.7	6860.1	6064.9	5153.0	4768.0	4853.2	4900.6	4910.0	4616.6
42.5°	8952.2	8851.3	8573.5	8122.3	7377.6	6768.6	5695.7	5648.4	5692.6	5657.9	5276.0
45°	9640.1	9561.2	9368.8	9198.4	8835.5	8529.4	6935.8	6617.1	6645.6	6525.6	6017.6
47.5°	9782.1	9693.8	9652.7	9889.4	10148.1	10223.9	8460.0	7768.9	7740.5	7475.5	6787.5
50°	9163.7	9173.1	9324.6	9999.8	11079.1	11760.7	10227.1	9068.9	8964.9	8374.7	7503.8
52.5°	7828.8	7980.3	8362.1	9457.1	11363.1	12877.7	11994.2	10448.0	10287.0	9248.9	8040.3
55°	6124.9	6320.5	6948.5	8207.5	10769.8	13376.3	13483.6	11880.5	11514.5	9905.2	8456.8
57.5°	4553.5	4613.4	5345.5	6494.0	9365.6	12887.2	14247.2	12985.0	12514.8	10429.0	8870.2
60°	2836.8	2874.7	3647.8	4944.7	7093.6	11079.1	14247.2	13745.5	13297.4	10899.2	9248.9
62.5°	1763.9	1776.5	2066.9	3389.1	4821.6	8217.0	13657.1	14335.6	13975.8	11236.8	9573.9
65°	1016.1	1028.7	1164.4	1915.4	3136.6	4919.4	12148.8	14509.1	14348.2	11505.0	9826.3
67.5°	741.6	747.8	801.5	1076.0	2051.1	2527.6	9125.8	13811.7	14013.7	11637.6	9820.0
70°	643.7	653.2	722.6	839.4	1479.9	1552.5	4644.9	11927.9	12492.7	11448.2	9526.5
72.5°	495.4	508.0	612.1	788.9	1085.5	1117.0	1681.9	8488.3	9343.5	10264.9	8721.8
75°	340.8	353.4	457.6	650.0	896.1	836.2	924.6	3906.5	4928.9	6885.4	6639.2
77.5°	217.8	220.9	287.1	473.3	773.1	593.2	634.2	1274.8	1789.2	3114.5	3133.4
80°	145.2	148.3	176.7	306.1	530.1	549.0	391.3	590.1	646.9	908.8	631.1
82.5°	88.3	88.3	119.9	192.5	321.9	454.4	255.6	309.2	331.4	350.2	164.1
85°	34.7	34.7	72.6	126.2	201.9	211.4	160.9	179.9	189.3	205.1	75.7
87.5°	9.5	9.5	41.0	69.5	88.3	97.8	97.8	88.3	94.7	116.7	37.9
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°	2574.9	2574.9	2574.9	2574.9	2574.9	2574.9	2574.9	2574.9	2574.9	2574.9	2574.9
2.5°	2562.3	2552.8	2540.2	2527.6	2514.9	2505.5	2496.0	2496.0	2489.7	2480.2	2474.0
5°	2555.9	2540.2	2511.8	2489.7	2455.0	2429.7	2410.9	2395.0	2385.6	2363.5	2360.4
7.5°	2546.5	2527.6	2486.6	2442.4	2385.6	2341.4	2297.2	2265.7	2234.1	2208.8	2202.6
10°	2530.7	2508.7	2448.7	2385.6	2306.7	2224.7	2120.5	2000.6	1890.2	1827.1	1808.1
12.5°	2530.7	2502.3	2423.5	2338.3	2224.7	2022.7	1757.6	1492.6	1287.5	1196.0	1170.7
15°	2546.5	2508.7	2404.5	2287.8	2076.4	1666.1	1237.0	886.7	662.7	593.2	577.5
17.5°	2562.3	2508.7	2376.1	2218.3	1805.0	1208.6	703.7	467.0	394.5	378.7	378.7
20°	2568.6	2502.3	2338.3	2089.0	1442.1	751.1	419.7	350.2	321.9	312.4	312.4
22.5°	2593.8	2505.5	2309.8	1902.8	1047.7	441.8	331.4	293.5	265.0	255.6	255.6
25°	2657.0	2543.3	2316.2	1666.1	672.1	334.5	280.9	243.0	214.5	201.9	201.9
27.5°	2758.0	2628.5	2350.9	1391.5	422.8	287.1	236.7	195.7	173.6	160.9	160.9
30°	2871.5	2723.2	2366.6	1076.0	315.5	243.0	192.5	154.6	138.8	129.4	126.2
32.5°	3070.3	2887.3	2354.0	738.4	258.8	205.1	154.6	123.1	110.5	107.3	107.3
35°	3389.1	3174.4	2328.8	463.8	214.5	164.1	123.1	101.0	91.5	88.3	85.2
37.5°	3821.4	3594.1	2253.1	306.1	176.7	129.4	101.0	85.2	75.7	72.6	72.6
40°	4348.3	4073.8	2107.9	233.5	151.4	104.1	85.2	72.6	66.2	63.1	63.1
42.5°	4951.0	4607.1	1877.6	201.9	126.2	88.3	72.6	60.0	56.8	53.6	53.6
45°	5610.5	5165.6	1558.8	179.9	107.3	72.6	60.0	53.6	47.4	47.4	44.2
47.5°	6311.1	5727.3	1199.1	157.8	91.5	63.1	53.6	44.2	41.0	37.9	37.9
50°	6986.3	6229.0	842.5	135.7	75.7	53.6	44.2	37.9	34.7	31.6	31.6
52.5°	7462.9	6531.9	596.4	116.7	63.1	47.4	34.7	28.4	25.2	25.2	25.2
55°	7844.6	6721.3	416.6	97.8	53.6	41.0	28.4	22.1	22.1	18.9	18.9
57.5°	8204.4	6844.4	306.1	82.1	44.2	31.6	22.1	15.8	15.8	12.6	12.6
60°	8576.7	6910.6	233.5	66.2	37.9	25.2	15.8	12.6	9.5	9.5	9.5
62.5°	8952.2	6951.6	179.9	53.6	31.6	18.9	12.6	9.5	6.3	3.1	3.1
65°	9280.4	6964.2	138.8	41.0	25.2	12.6	9.5	3.1	0.0	0.0	0.0
67.5°	9378.2	6819.1	107.3	31.6	18.9	9.5	6.3	0.0	0.0	0.0	0.0
70°	9113.2	6434.1	82.1	25.2	15.8	6.3	3.1	0.0	0.0	0.0	0.0
72.5°	8087.6	5396.0	63.1	15.8	12.6	6.3	3.1	0.0	0.0	0.0	0.0
75°	5787.2	2877.8	44.2	12.6	9.5	3.1	0.0	0.0	0.0	0.0	0.0
77.5°	2663.3	1113.9	31.6	9.5	6.3	3.1	0.0	0.0	0.0	0.0	0.0
80°	520.7	277.7	12.6	6.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	119.9	47.4	6.3	6.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	41.0	15.8	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.8	6.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)