

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: P380937

Luminaire Tested: **PRV-XL-PA3B-8540-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P380937
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)
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-T3
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(3) 85 CRI, 4000K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23902.6 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

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

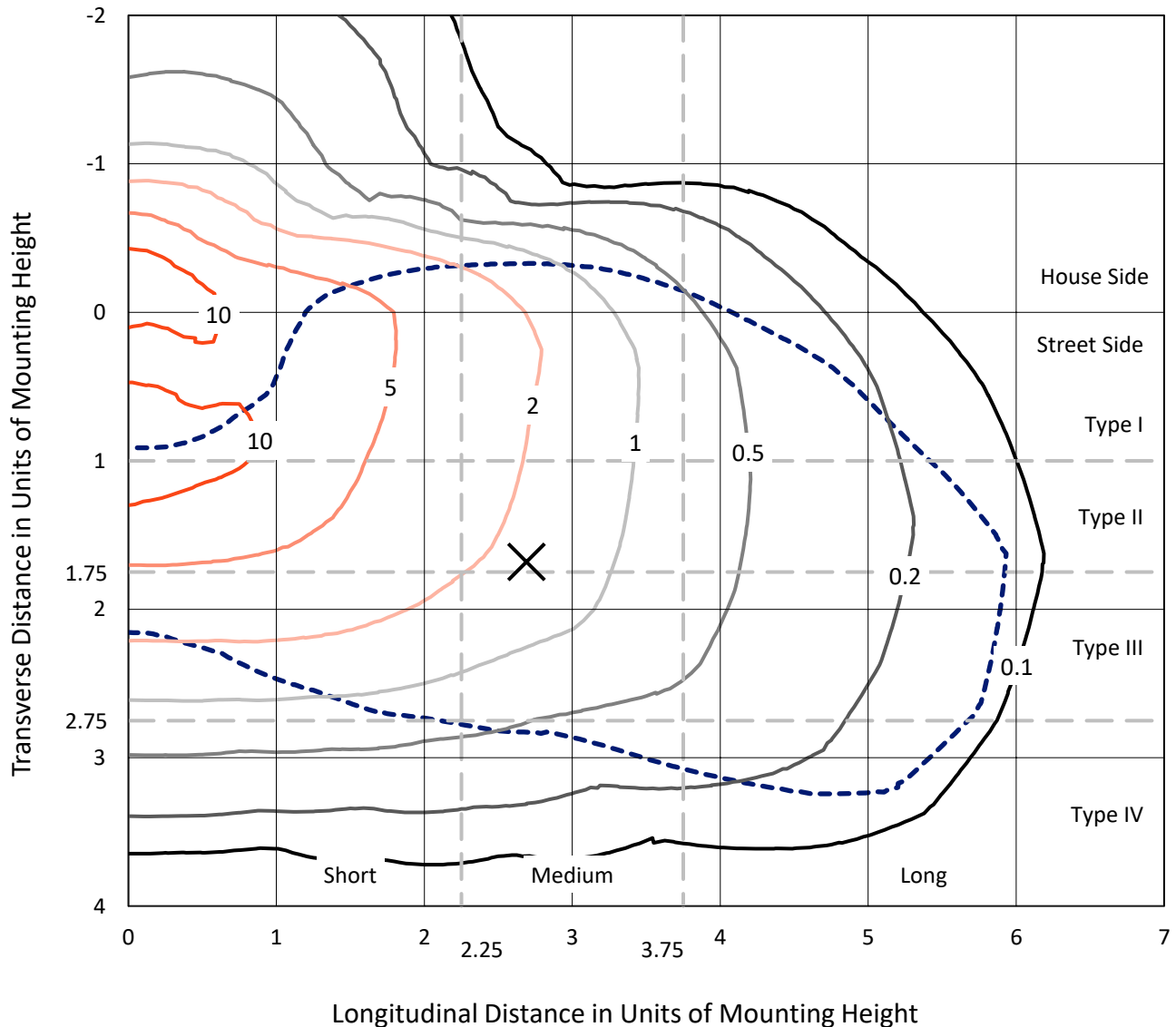


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

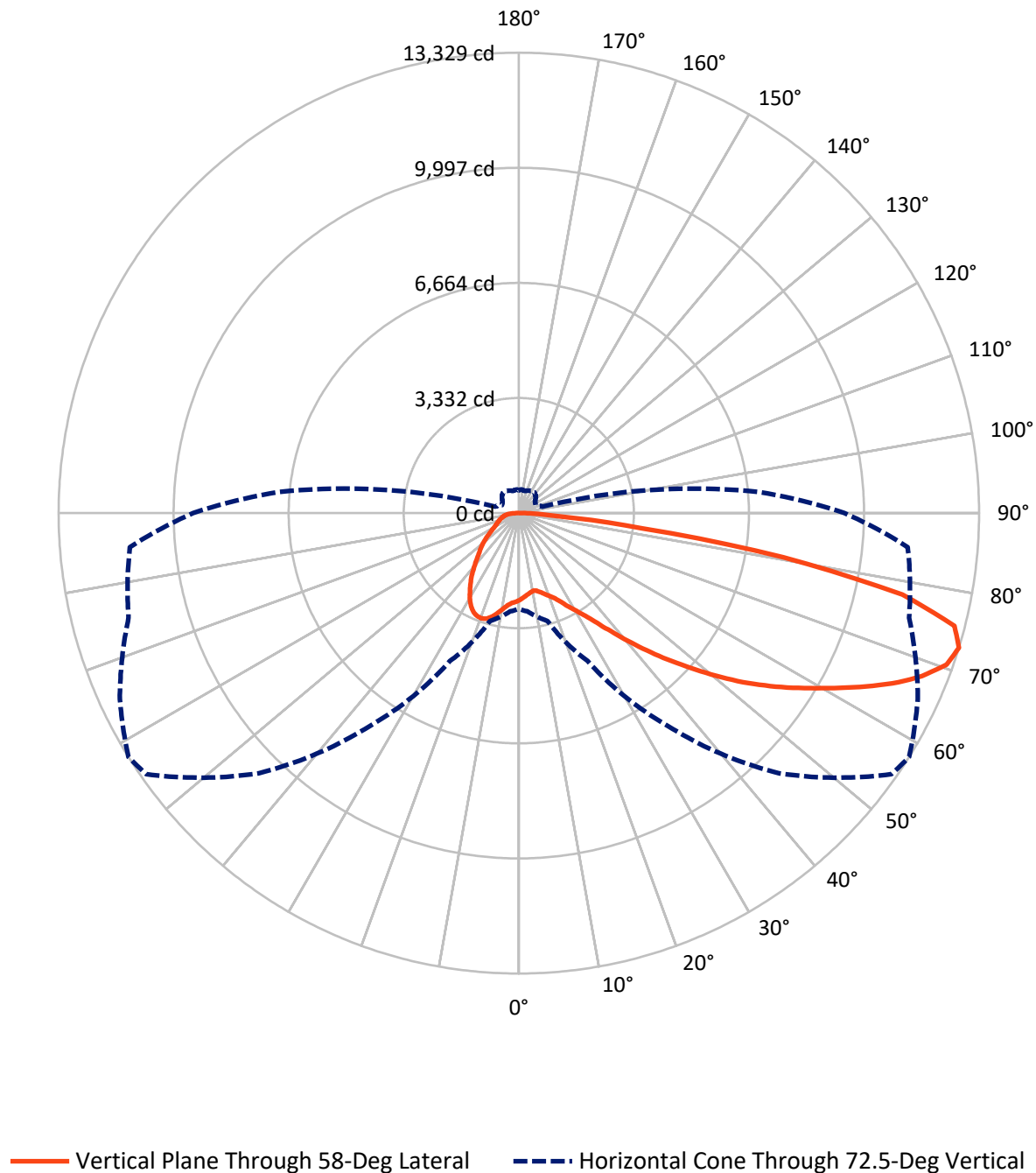


Based on 15 foot mounting height. Maximum calculated value = 13 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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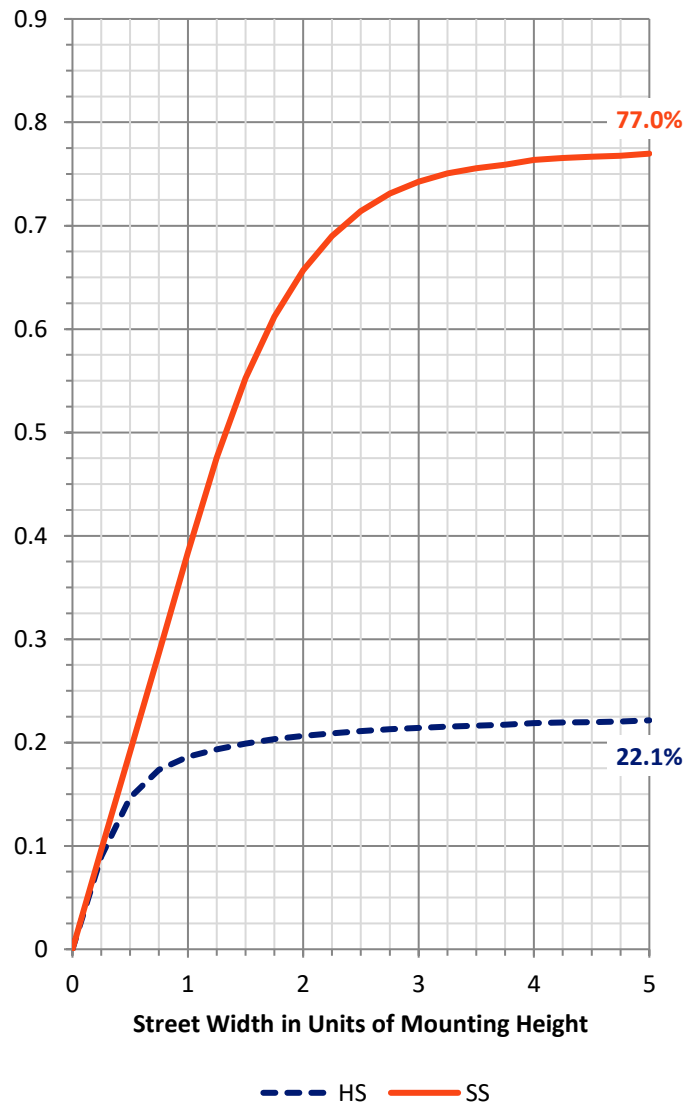
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5420.8	0.0	5420.8
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	18481.8	0.0	18481.8
	% Fixture	77.3	0.0	77.3
Total	Lumens	23902.6	0.0	23902.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.9	1.0
10°-20°	771.3	3.2
20°-30°	1381.7	5.8
30°-40°	2078.4	8.7
40°-50°	3365.7	14.1
50°-60°	5066.4	21.2
60°-70°	5962.6	24.9
70°-80°	4228.0	17.7
80°-90°	805.6	3.4
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°	23902.6	100.0
0°-180°	23902.6	100.0

Coefficient of Utilization



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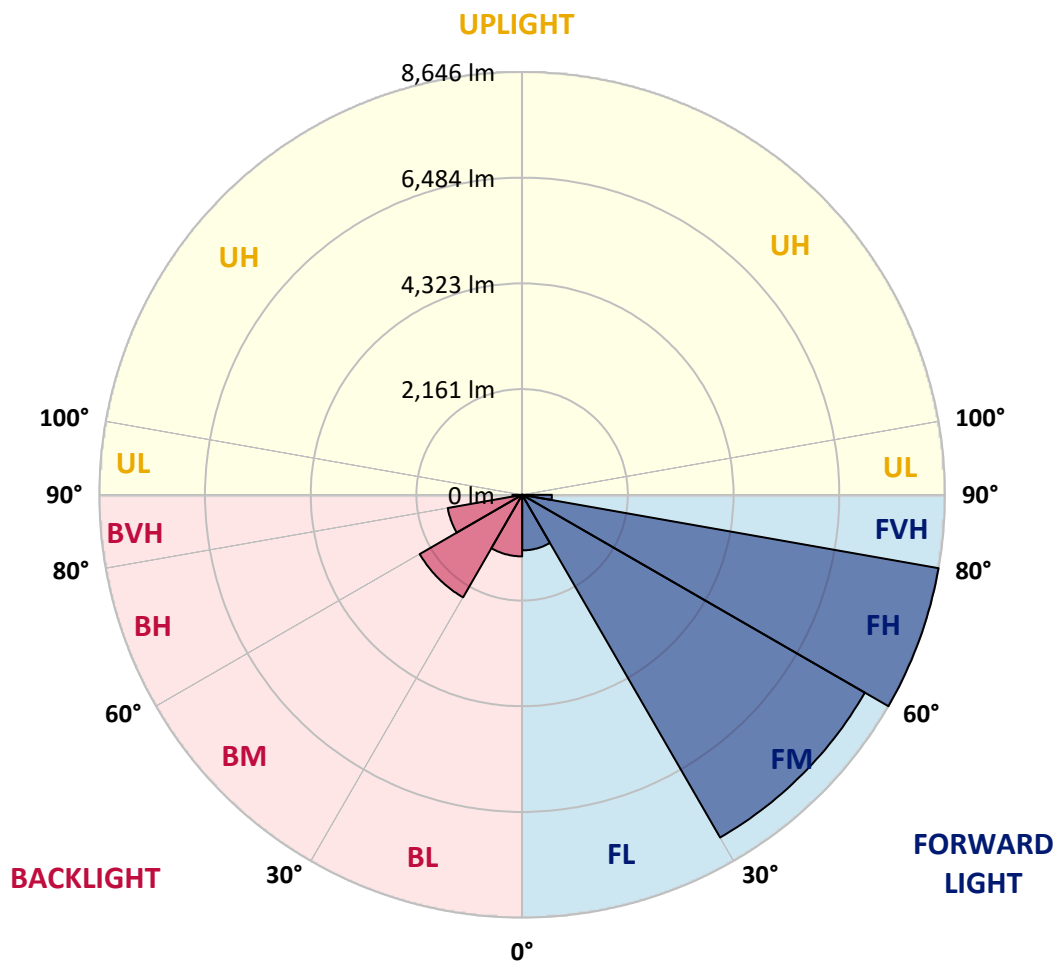
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1136.7	4.8			
FM	(30°-60°)	8091.7	33.9			
FH	(60°-80°)	8645.7	36.2			G4/12000
FVH	(80°-90°)	607.7	2.5			G4/750
BL	(0°-30°)	1259.2	5.3	B3/2500		
BM	(30°-60°)	2418.7	10.1	B2/2500		
BH	(60°-80°)	1545.0	6.5	B3/2500		G3/2500
BVH	(80°-90°)	197.9	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-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2
2.5°	2426.6	2413.9	2417.1	2417.1	2429.7	2436.0	2439.2	2448.7	2454.9	2470.8	2492.8
5°	2313.0	2303.5	2306.6	2309.8	2331.9	2354.0	2372.9	2385.6	2404.4	2429.7	2461.3
7.5°	2230.9	2224.6	2227.8	2234.1	2253.0	2278.2	2309.8	2328.7	2357.1	2404.4	2458.2
10°	2170.9	2170.9	2174.2	2186.8	2205.7	2237.3	2262.5	2284.6	2341.3	2426.6	2508.6
12.5°	2123.7	2123.7	2133.1	2158.3	2189.9	2221.4	2281.4	2306.6	2382.4	2499.1	2597.0
15°	2120.4	2123.7	2126.8	2148.9	2183.6	2253.0	2341.3	2379.2	2470.8	2609.6	2723.2
17.5°	2170.9	2174.2	2161.5	2167.8	2208.8	2306.6	2423.4	2467.5	2584.3	2735.8	2852.5
20°	2325.6	2325.6	2287.7	2253.0	2281.4	2388.7	2521.2	2565.4	2694.8	2862.0	2978.8
22.5°	2641.1	2656.9	2568.6	2492.8	2448.7	2508.6	2628.5	2675.8	2821.0	3000.8	3117.6
25°	3022.9	3038.7	2918.8	2811.5	2729.5	2720.0	2798.9	2849.4	2969.3	3155.5	3253.3
27.5°	3392.1	3363.8	3253.3	3152.3	3048.2	2963.0	3022.9	3067.1	3206.0	3348.0	3407.9
30°	3682.4	3660.4	3553.1	3480.5	3382.6	3272.2	3237.5	3284.8	3398.5	3530.9	3562.5
32.5°	4004.3	3988.5	3881.3	3786.6	3704.5	3600.4	3524.7	3546.8	3609.9	3704.5	3723.5
35°	4414.5	4449.2	4335.6	4143.2	4051.6	3950.6	3897.0	3903.3	3950.6	4010.6	3979.0
37.5°	4846.8	4887.8	4894.1	4591.2	4468.1	4376.7	4319.8	4341.9	4398.7	4439.8	4341.9
40°	5648.3	5607.3	5443.2	5219.2	5029.8	4941.4	4862.6	4859.5	4900.5	4973.0	4796.3
42.5°	6711.7	6673.8	6342.5	6052.2	5752.4	5651.5	5496.8	5430.6	5449.5	5541.0	5294.9
45°	7730.9	7715.1	7450.1	7112.5	6752.7	6557.1	6203.6	6042.7	6027.0	6099.5	5806.1
47.5°	8636.5	8567.1	8374.7	8112.7	8074.8	7563.6	6913.7	6695.9	6620.2	6661.2	6333.1
50°	9605.2	9368.6	9103.5	8942.6	9217.2	8740.6	7629.9	7402.7	7216.6	7244.9	6904.2
52.5°	10119.6	9722.0	9548.5	9595.8	9965.0	9781.9	8409.3	8131.6	7831.9	7872.9	7472.2
55°	9677.8	9674.7	9750.4	10043.9	10558.2	10346.8	9150.8	8838.5	8510.3	8519.7	8125.3
57.5°	9072.0	9195.0	9586.3	10233.2	11293.4	10940.0	9879.7	9548.5	9248.7	9201.3	8866.8
60°	8519.7	8655.4	9223.4	10201.6	11549.0	11482.8	10573.9	10283.7	10040.7	9901.9	9646.2
62.5°	7680.4	7781.4	8586.1	9999.7	11334.5	11874.0	11277.6	11078.8	10895.8	10608.7	10485.6
65°	6692.8	6727.5	7576.3	9333.9	11066.2	12025.5	11978.2	11889.8	11713.1	11290.2	11315.5
67.5°	5623.0	5692.5	6437.1	8270.5	10479.3	11956.1	12520.9	12593.5	12385.2	11751.0	11845.6
70°	4483.9	4569.1	5134.0	6800.0	9482.2	11656.3	13022.6	13139.4	12738.6	11902.5	11943.5
72.5°	2773.6	2855.7	3234.3	4723.8	7516.3	10649.7	13177.3	13328.7	12748.1	11700.4	11306.1
75°	959.3	968.7	1265.3	2265.6	4461.8	8040.2	12672.4	13029.0	12347.4	10965.3	9838.8
77.5°	438.6	454.4	561.6	934.0	1978.5	4338.8	10463.5	11356.6	11129.3	9816.7	7573.1
80°	302.9	309.2	388.1	558.5	1142.3	1527.2	6604.4	7768.8	8166.4	7601.5	4853.1
82.5°	227.2	233.5	299.7	378.7	823.6	741.5	2514.9	3609.9	4487.1	4405.0	2029.0
85°	217.8	214.5	233.5	252.4	549.0	441.8	814.1	1117.0	1751.3	1498.8	511.2
87.5°	94.7	104.1	239.8	142.0	287.1	205.1	353.4	413.3	533.3	463.8	183.0
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°	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2	2521.2
2.5°	2502.3	2508.6	2527.5	2555.9	2571.7	2603.2	2625.3	2638.0	2647.4	2650.6	2650.6
5°	2480.2	2492.8	2533.9	2581.2	2625.3	2691.6	2751.5	2786.3	2811.5	2821.0	2824.1
7.5°	2486.5	2518.0	2578.0	2647.4	2704.2	2789.4	2862.0	2931.4	2988.2	3010.3	3010.3
10°	2546.5	2590.6	2672.7	2764.2	2836.7	2925.1	3000.8	3060.8	3127.1	3165.0	3171.2
12.5°	2638.0	2691.6	2798.9	2899.8	2981.9	3051.4	3120.7	3165.0	3196.5	3224.9	3231.2
15°	2767.4	2833.6	2940.9	3045.0	3117.6	3161.8	3180.7	3180.7	3177.6	3180.7	3187.0
17.5°	2896.7	2959.8	3067.1	3171.2	3206.0	3180.7	3158.6	3152.3	3149.1	3142.9	3146.0
20°	3022.9	3082.9	3174.4	3253.3	3224.9	3136.5	3108.1	3105.0	3095.5	3089.2	3082.9
22.5°	3149.1	3193.3	3269.1	3297.4	3183.8	3057.6	3022.9	3004.0	2991.4	2975.6	2959.8
25°	3294.3	3306.9	3363.8	3319.5	3082.9	2912.5	2862.0	2833.6	2821.0	2805.2	2792.6
27.5°	3430.0	3430.0	3439.5	3284.8	2934.6	2720.0	2644.3	2593.8	2590.6	2587.5	2584.3
30°	3553.1	3537.3	3505.7	3180.7	2742.1	2483.4	2369.7	2319.2	2338.2	2354.0	2357.1
32.5°	3698.2	3666.6	3578.3	3038.7	2511.8	2218.3	2079.5	2057.3	2079.5	2098.4	2085.8
35°	3925.4	3868.6	3654.0	2874.6	2290.9	1975.4	1842.8	1811.2	1804.9	1801.8	1776.5
37.5°	4250.4	4152.6	3714.0	2697.9	2073.1	1760.7	1662.9	1596.7	1536.7	1473.6	1464.1
40°	4648.0	4480.8	3755.0	2496.0	1842.8	1580.9	1476.7	1391.5	1290.6	1180.1	1167.5
42.5°	5083.5	4834.2	3773.9	2272.0	1640.9	1432.6	1303.2	1196.0	1082.3	997.2	981.3
45°	5553.7	5216.0	3758.2	2057.3	1476.7	1306.4	1161.2	1044.4	953.0	893.0	880.4
47.5°	6011.2	5654.6	3714.0	1887.0	1350.5	1199.1	1050.8	943.5	874.1	807.8	792.0
50°	6598.1	6074.3	3660.4	1754.5	1211.7	1091.8	981.3	867.7	788.9	757.3	751.0
52.5°	7248.2	6494.0	3597.3	1587.2	1076.0	1006.6	937.2	836.2	811.0	751.0	741.5
55°	7951.8	6992.5	3584.7	1375.8	956.1	946.6	893.0	864.6	870.9	751.0	735.2
57.5°	8693.3	7525.8	3613.0	1164.4	858.3	893.0	912.0	889.9	880.4	766.8	735.2
60°	9466.4	8040.2	3527.8	968.7	782.5	848.9	934.0	877.2	807.8	760.4	738.4
62.5°	10217.4	8472.5	3158.6	829.9	725.8	836.2	921.4	829.9	751.0	751.0	741.5
65°	10763.3	8664.9	2470.8	728.9	687.9	820.4	899.3	798.3	735.2	757.3	744.7
67.5°	10826.4	8466.1	1659.8	650.0	656.3	792.0	848.9	769.9	719.4	776.3	757.3
70°	10438.3	7948.6	1016.1	590.1	615.3	741.5	804.6	741.5	697.3	760.4	732.1
72.5°	9431.7	6983.0	716.3	539.6	571.1	694.2	763.7	716.3	665.8	687.9	659.5
75°	7737.2	5411.6	568.0	492.3	527.0	650.0	728.9	678.4	628.0	618.5	599.5
77.5°	5481.1	3467.8	457.5	454.4	479.7	596.4	681.6	634.2	583.7	564.9	552.2
80°	3152.3	1700.8	394.4	410.2	435.4	542.8	624.8	583.7	536.4	508.0	489.1
82.5°	1205.4	593.2	347.1	356.6	385.0	485.9	568.0	533.3	485.9	511.2	429.2
85°	391.3	325.0	284.0	293.5	321.9	403.9	501.7	473.3	419.7	372.3	344.0
87.5°	173.5	176.7	151.4	167.2	201.9	268.2	366.1	347.1	306.1	255.6	246.1
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)