

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: P381259

Luminaire Tested: **PRV-XL-PA4B-8540-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381259
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-PA4B-8540-U-T3-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(4) 85 CRI, 4000K, 970mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22850.3 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 303
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

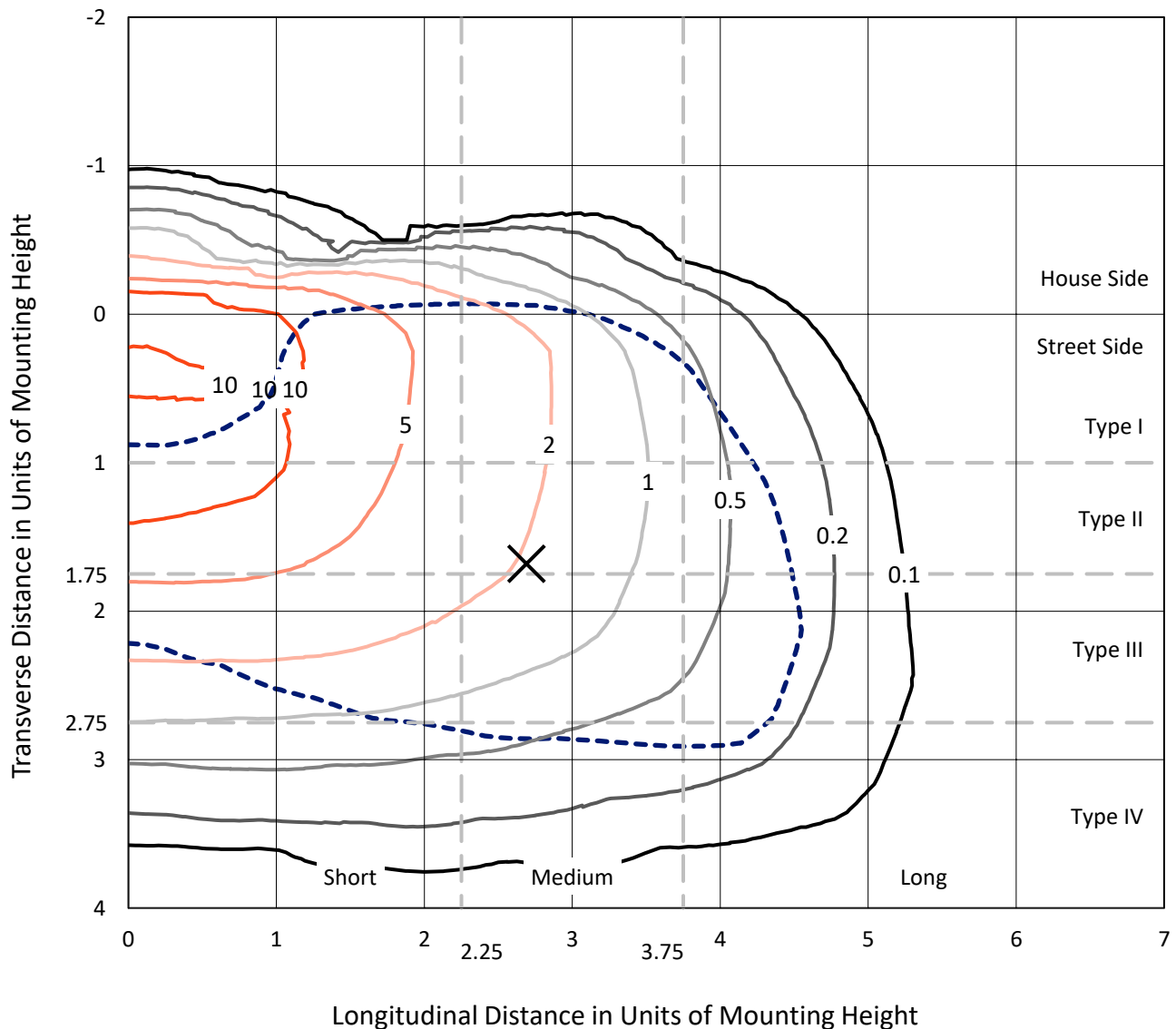


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

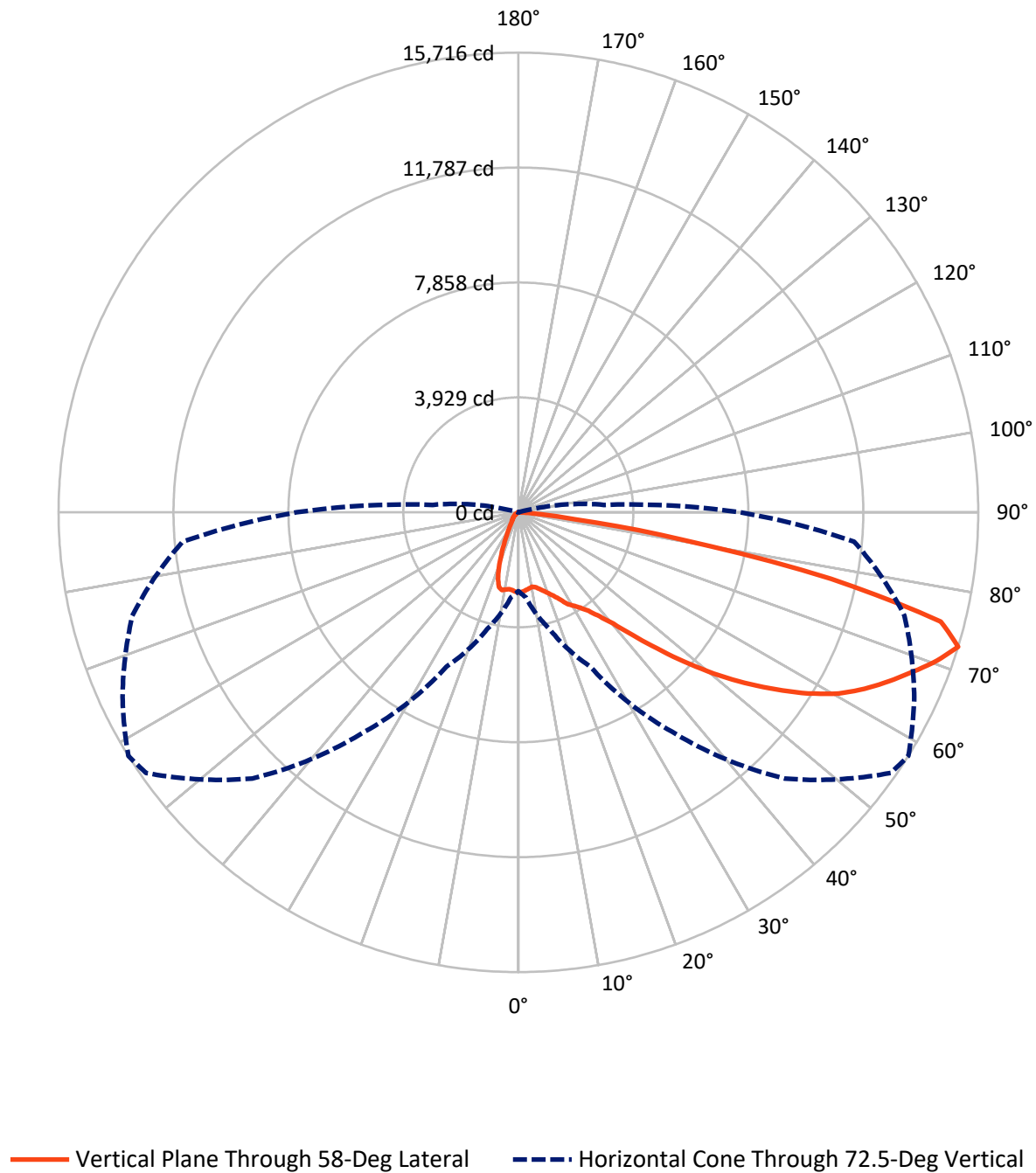


Based on 15 foot mounting height. Maximum calculated value = 15 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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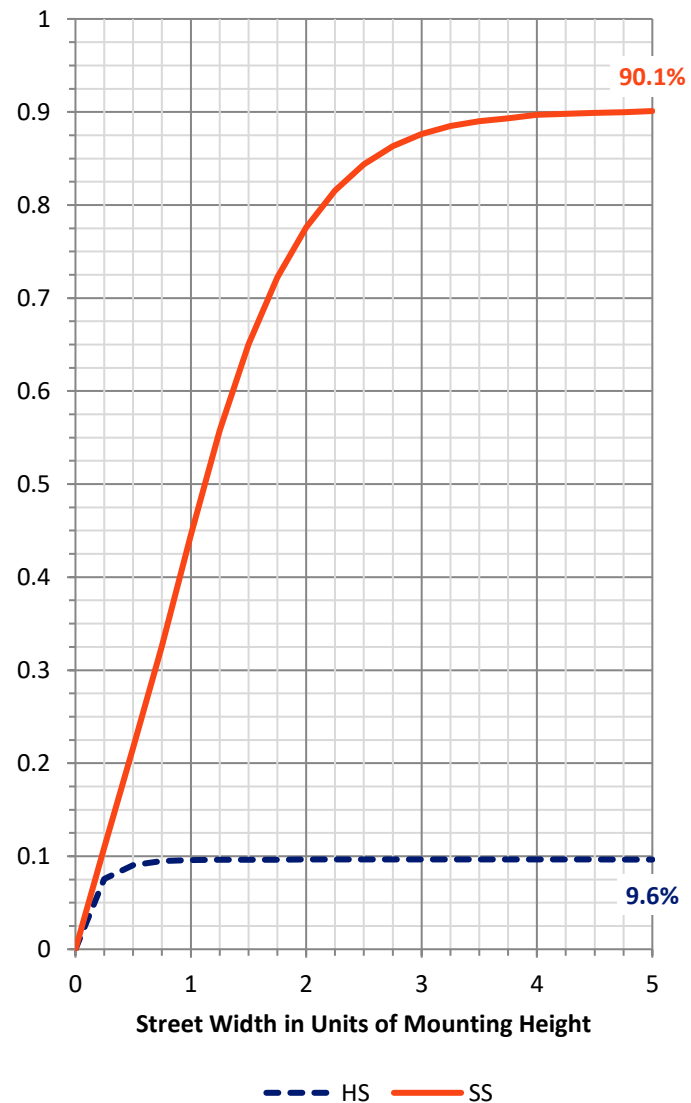
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2222.0	0.0	2222.0
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	20628.3	0.0	20628.3
	% Fixture	90.3	0.0	90.3
Total	Lumens	22850.3	0.0	22850.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.6	1.1
10°-20°	655.4	2.9
20°-30°	1029.6	4.5
30°-40°	1775.6	7.8
40°-50°	3378.3	14.8
50°-60°	5350.1	23.4
60°-70°	6243.0	27.3
70°-80°	3910.0	17.1
80°-90°	256.6	1.1
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°	22850.3	100.0
0°-180°	22850.3	100.0

Coefficient of Utilization



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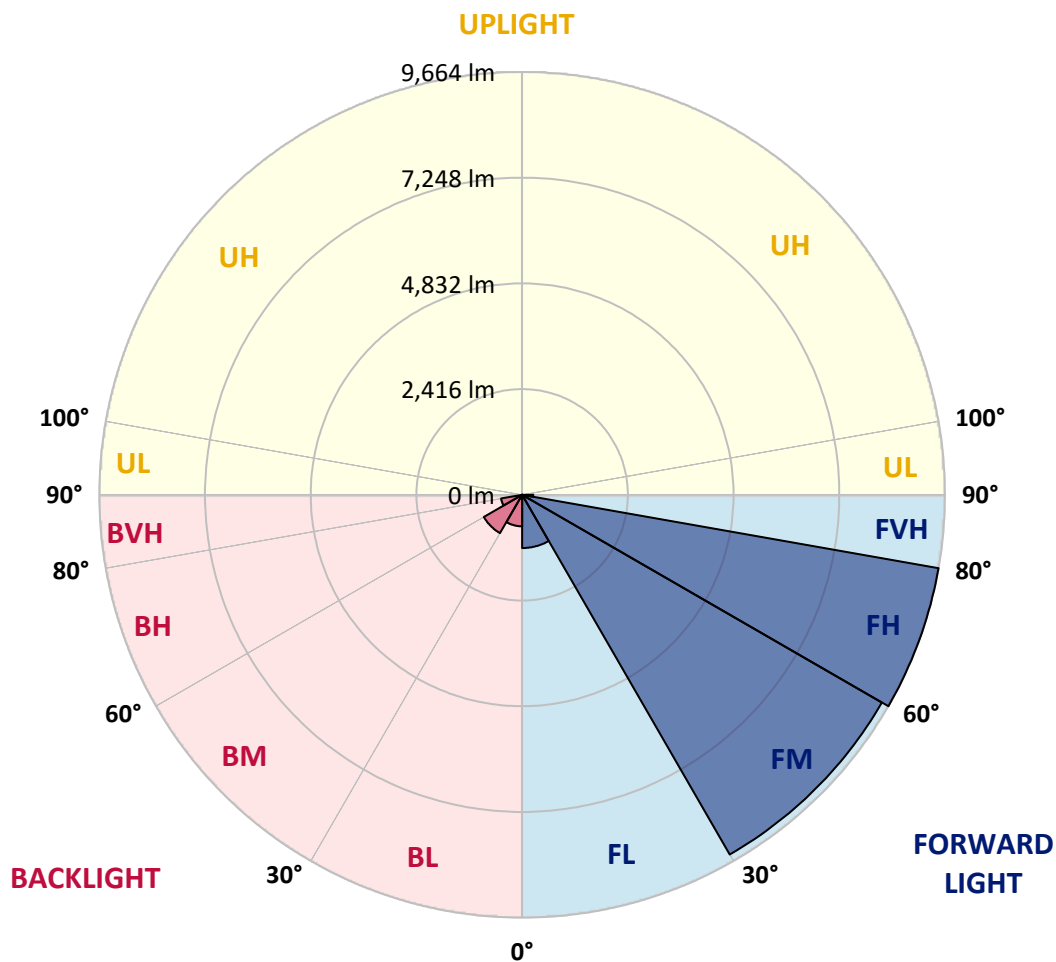
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1217.1	5.3			
FM	(30°-60°)	9493.0	41.5			
FH	(60°-80°)	9664.0	42.3			G4/12000
FVH	(80°-90°)	254.2	1.1			G3/500
BL	(0°-30°)	719.6	3.1	B2/1000		
BM	(30°-60°)	1011.0	4.4	B2/2500		
BH	(60°-80°)	488.9	2.1	B1/500		G1/500
BVH	(80°-90°)	2.5	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-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9
2.5°	2729.6	2717.4	2713.3	2709.2	2713.3	2717.4	2705.1	2717.4	2709.2	2713.3	2721.5
5°	2631.6	2619.3	2615.2	2619.3	2631.6	2652.0	2660.2	2672.5	2672.5	2684.7	2688.7
7.5°	2521.3	2513.0	2509.0	2517.2	2541.7	2586.6	2611.1	2627.5	2643.8	2668.3	2692.9
10°	2460.0	2455.9	2451.8	2464.0	2488.5	2529.4	2562.1	2586.6	2647.9	2717.4	2762.3
12.5°	2419.1	2419.1	2427.2	2451.8	2484.5	2517.2	2594.8	2627.5	2721.5	2827.7	2889.0
15°	2386.4	2386.4	2398.6	2443.6	2488.5	2566.2	2680.6	2717.4	2827.7	2958.5	3040.2
17.5°	2361.8	2370.1	2378.2	2423.2	2509.0	2639.7	2774.6	2827.7	2962.6	3105.6	3195.5
20°	2366.0	2374.1	2378.2	2423.2	2545.8	2725.5	2897.2	2958.5	3113.8	3265.0	3354.8
22.5°	2390.5	2402.7	2406.8	2468.1	2611.1	2815.4	3036.1	3105.6	3273.1	3432.5	3502.0
25°	2492.6	2500.8	2476.3	2529.4	2705.1	2954.4	3215.9	3289.5	3457.0	3604.1	3661.3
27.5°	2839.9	2848.2	2713.3	2652.0	2778.7	3068.8	3436.6	3538.7	3747.1	3845.2	3853.4
30°	3591.9	3600.0	3334.4	3044.3	2954.4	3166.8	3559.1	3702.2	3971.8	4082.2	4033.2
32.5°	4560.3	4552.1	4188.4	3759.4	3371.2	3338.5	3734.8	3886.0	4180.3	4286.5	4249.7
35°	5532.8	5545.0	5234.5	4588.9	4033.2	3661.3	3959.6	4135.3	4490.8	4642.0	4576.6
37.5°	6198.9	6280.6	6145.8	5447.0	4846.3	4257.9	4323.3	4511.3	4956.6	5161.0	5022.0
40°	7138.8	7118.3	6791.4	6276.5	5745.3	5140.6	4911.7	5001.6	5512.4	5786.2	5569.6
42.5°	8401.4	8360.6	7804.8	7302.2	6709.7	6215.2	5749.4	5733.0	6149.8	6468.6	6153.9
45°	9545.6	9484.2	9104.3	8617.9	7968.3	7400.3	6771.0	6627.9	6918.0	7187.8	6820.0
47.5°	10456.8	10354.6	10085.0	9827.5	9668.2	8785.5	7841.6	7625.0	7772.1	7972.3	7453.4
50°	11535.5	11253.6	10861.3	10706.0	11037.0	10354.6	8871.3	8663.0	8654.7	8769.1	8107.2
52.5°	12025.9	11515.1	11294.5	11425.2	12009.6	11813.4	9982.8	9684.5	9566.0	9578.3	8716.0
55°	11433.4	11376.2	11494.7	11903.3	12667.5	12553.1	11049.3	10681.5	10505.8	10285.2	9300.4
57.5°	10759.2	10934.9	11404.8	12185.3	13501.1	13325.3	12099.5	11682.7	11359.8	10853.2	9950.1
60°	10138.0	10317.8	11094.2	12250.7	13958.8	14069.1	12973.9	12577.6	12099.5	11433.4	10665.2
62.5°	9194.1	9333.0	10424.1	12156.7	13758.5	14502.2	13582.8	13284.5	12839.1	11985.1	11486.5
65°	8131.7	8221.6	9300.4	11404.8	13366.2	14453.2	14085.4	13917.9	13484.7	12561.2	12299.7
67.5°	6967.1	7073.4	7972.3	10052.2	12598.0	14224.4	14559.4	14543.1	14048.7	13198.7	12888.1
70°	5626.8	5635.0	6378.7	8336.1	11257.7	13766.7	15147.8	15184.6	14588.0	13676.8	12912.7
72.5°	2692.9	2913.5	4135.3	5818.9	9149.2	12867.7	15532.0	15715.8	14927.2	13660.5	11519.3
75°	617.0	637.4	1205.4	2766.4	5365.3	9876.5	14571.7	14914.9	14101.8	11813.4	8115.3
77.5°	224.7	237.0	339.2	809.1	2063.6	5103.8	10428.2	10930.8	10424.1	7637.2	3837.0
80°	151.2	147.1	175.7	359.6	948.1	1446.5	5332.6	5630.9	5140.6	2607.1	919.4
82.5°	77.7	81.7	122.6	200.2	637.4	502.6	1781.6	1936.9	1593.6	523.0	171.6
85°	36.8	36.8	69.5	126.7	269.7	175.7	396.4	478.1	429.1	228.9	57.2
87.5°	36.8	36.8	65.4	81.7	138.9	73.5	98.1	122.6	114.4	122.6	20.4
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°	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9	2741.9
2.5°	2721.5	2717.4	2713.3	2721.5	2717.4	2725.5	2725.5	2733.7	2733.7	2725.5	2721.5
5°	2684.7	2676.5	2668.3	2668.3	2664.2	2672.5	2697.0	2717.4	2721.5	2709.2	2705.1
7.5°	2688.7	2688.7	2680.6	2664.2	2635.7	2635.7	2635.7	2660.2	2672.5	2664.2	2660.2
10°	2762.3	2766.4	2746.0	2709.2	2660.2	2615.2	2529.4	2402.7	2284.2	2251.5	2239.3
12.5°	2889.0	2893.1	2852.2	2786.9	2684.7	2419.1	2092.2	1789.8	1556.8	1491.5	1479.2
15°	3040.2	3044.3	2970.7	2864.4	2553.9	1936.9	1450.7	1107.4	903.0	854.0	849.9
17.5°	3195.5	3187.3	3077.0	2872.7	2165.7	1373.0	882.7	706.9	653.8	641.5	645.7
20°	3346.7	3322.1	3171.0	2721.5	1667.2	899.0	645.7	604.8	592.5	584.4	584.4
22.5°	3485.6	3436.6	3248.6	2423.2	1168.7	645.7	576.1	568.0	551.6	539.4	535.3
25°	3624.5	3555.1	3297.6	2034.9	784.6	563.9	543.5	527.1	506.7	490.4	486.2
27.5°	3792.1	3694.0	3273.1	1544.6	588.4	523.0	506.7	482.2	453.6	429.1	420.9
30°	3951.4	3841.1	3134.2	1066.5	502.6	482.2	457.7	420.9	384.1	355.5	347.3
32.5°	4151.7	4025.0	2884.9	698.7	437.2	420.9	396.4	351.4	302.4	269.7	261.5
35°	4437.7	4294.7	2566.2	490.4	384.1	355.5	322.8	273.8	220.6	196.1	192.1
37.5°	4838.2	4646.1	2165.7	396.4	339.2	298.3	249.2	200.2	163.5	143.1	138.9
40°	5328.5	5034.3	1720.3	351.4	302.4	249.2	188.0	143.1	118.5	102.2	102.2
42.5°	5859.7	5398.0	1266.7	322.8	265.6	204.3	138.9	102.2	85.8	77.7	73.5
45°	6407.3	5720.8	854.0	298.3	232.9	155.3	98.1	69.5	57.2	57.2	53.1
47.5°	6975.3	5937.3	551.6	269.7	196.1	114.4	65.4	49.0	40.9	40.9	40.9
50°	7539.2	6051.8	392.3	245.2	159.3	77.7	49.0	36.8	32.7	32.7	32.7
52.5°	7947.8	5978.2	314.6	212.5	122.6	57.2	36.8	28.6	24.5	24.5	24.5
55°	8303.3	5851.6	273.8	183.8	89.9	40.9	28.6	24.5	20.4	20.4	20.4
57.5°	8667.0	5688.1	245.2	155.3	65.4	28.6	20.4	16.4	16.4	16.4	16.4
60°	8998.0	5410.2	212.5	122.6	44.9	20.4	16.4	12.3	12.3	12.3	12.3
62.5°	9320.8	5173.2	183.8	94.0	32.7	16.4	8.1	8.1	4.1	4.1	4.1
65°	9504.7	4854.5	147.1	61.3	20.4	12.3	4.1	4.1	0.0	0.0	0.0
67.5°	9447.5	4474.5	102.2	36.8	12.3	8.1	4.1	0.0	0.0	0.0	0.0
70°	9051.1	3963.7	61.3	20.4	12.3	8.1	4.1	0.0	0.0	0.0	0.0
72.5°	7580.1	2934.0	36.8	16.4	8.1	4.1	0.0	0.0	0.0	0.0	0.0
75°	5062.9	1348.5	20.4	12.3	4.1	4.1	0.0	0.0	0.0	0.0	0.0
77.5°	2316.9	404.6	12.3	8.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	465.8	106.3	8.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	98.1	20.4	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.4	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.1	4.1	0.0	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)