

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: P381002

Luminaire Tested: **PRV-XL-PA4A-8540-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381002
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-PA4A-8540-U-T4W
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(4) 85 CRI, 4000K, 785mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26250.1 lumens
Efficiency: N/A
Efficacy: 107.1 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): 245
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



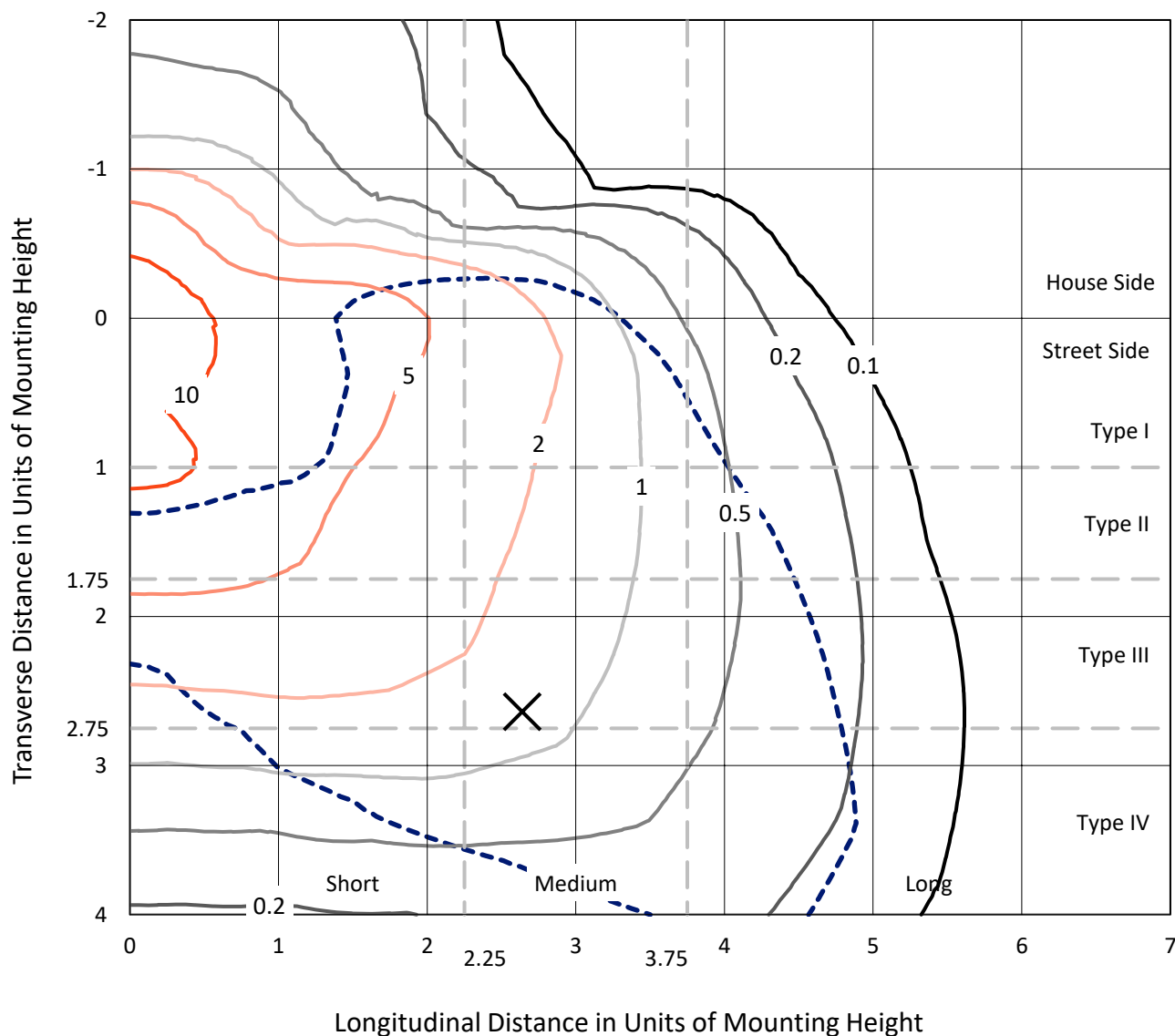
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

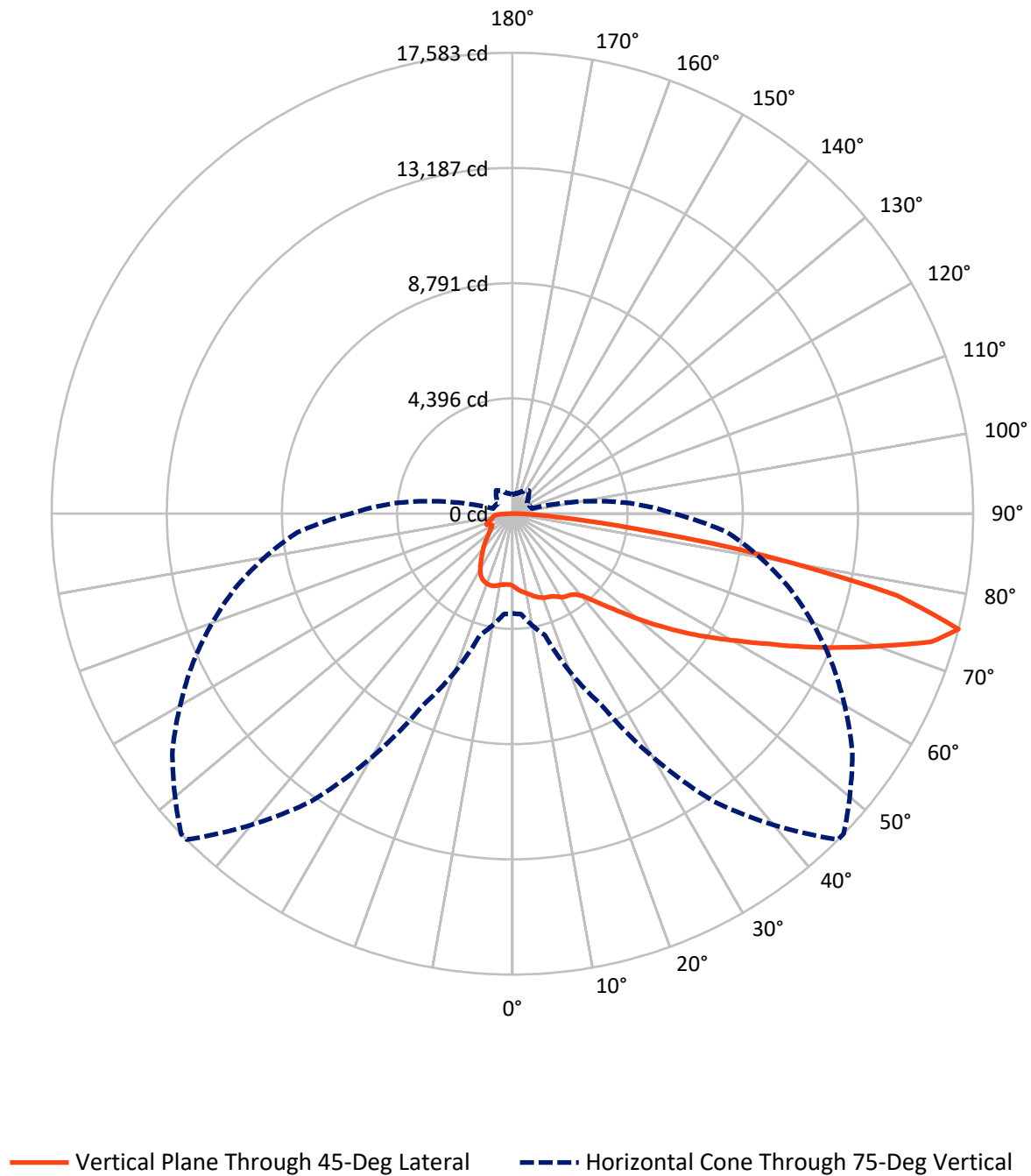


Based on 15 foot mounting height. Maximum calculated value = 14.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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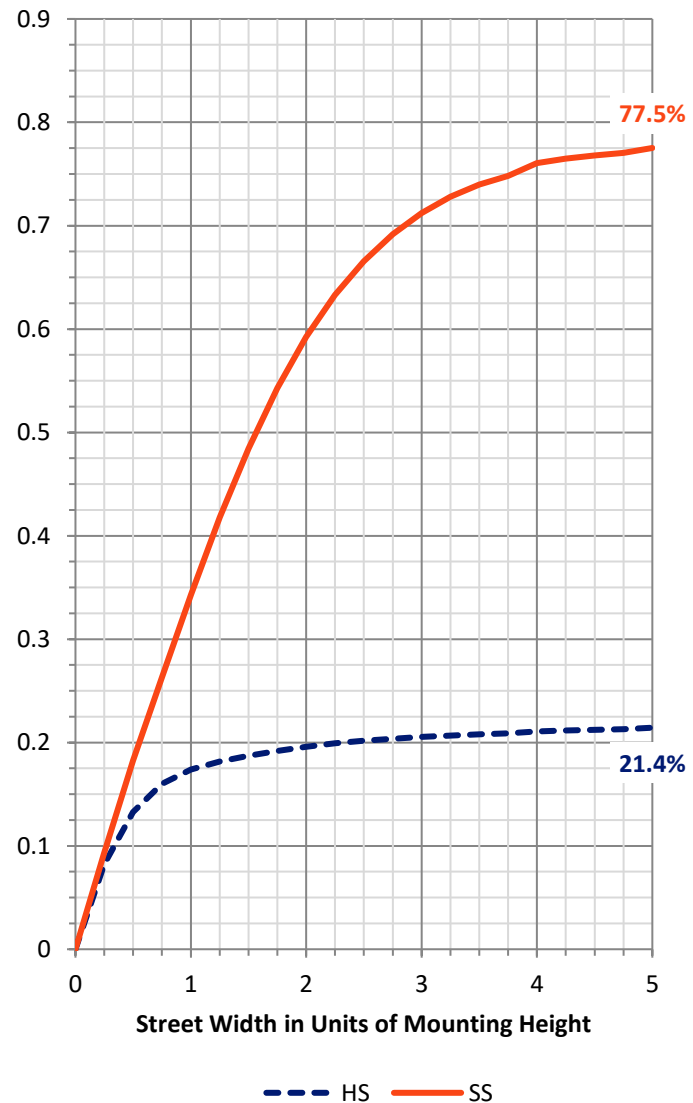
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5801.1	0.0	5801.1
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	20448.9	0.0	20448.9
	% Fixture	77.9	0.0	77.9
Total	Lumens	26250.1	0.0	26250.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.7	1.0
10°-20°	867.7	3.3
20°-30°	1479.2	5.6
30°-40°	2072.6	7.9
40°-50°	3044.9	11.6
50°-60°	4846.0	18.5
60°-70°	6893.4	26.3
70°-80°	5771.9	22.0
80°-90°	1001.7	3.8
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°	26250.1	100.0
0°-180°	26250.1	100.0

Coefficient of Utilization



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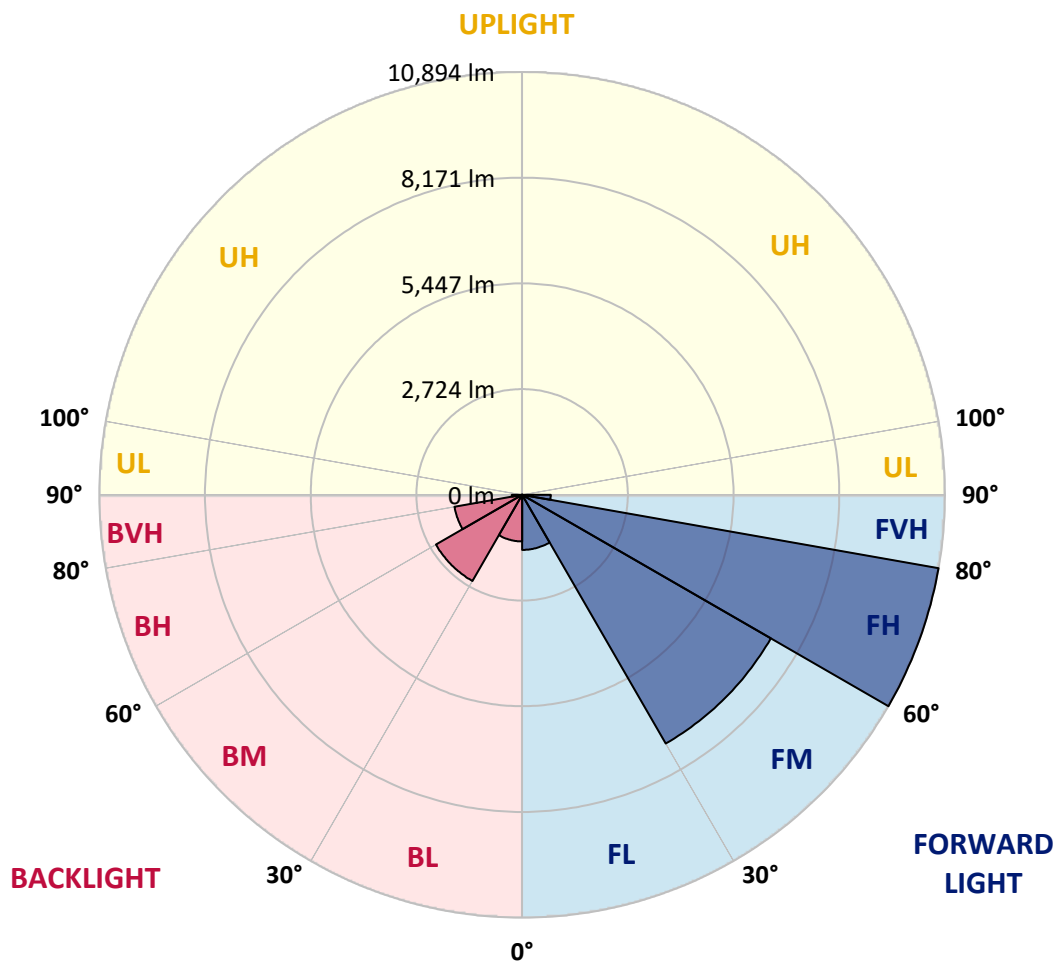
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1419.0	5.4			
FM	(30°-60°)	7399.1	28.2			
FH	(60°-80°)	10894.4	41.5			G4/12000
FVH	(80°-90°)	736.4	2.8			G4/750
BL	(0°-30°)	1200.6	4.6	B3/2500		
BM	(30°-60°)	2564.4	9.8	B3/5000		
BH	(60°-80°)	1770.9	6.7	B3/2500		G3/2500
BVH	(80°-90°)	265.3	1.0			G3/500
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°	46°	55°	65°	75°	85°
0°	2756.9	2756.9	2756.9	2756.9	2756.9	2756.9	2756.9	2756.9	2756.9	2756.9	2756.9
2.5°	2914.6	2900.6	2893.7	2893.7	2865.5	2848.0	2844.5	2820.0	2798.9	2777.8	2760.3
5°	3083.0	3072.5	3051.4	3033.9	2995.4	2946.2	2939.2	2886.6	2834.0	2784.9	2742.8
7.5°	3237.3	3216.3	3191.7	3156.7	3093.6	3026.9	3016.4	2942.7	2869.1	2795.4	2739.3
10°	3367.1	3346.1	3311.0	3261.9	3181.3	3100.5	3090.0	3012.9	2935.7	2848.0	2767.4
12.5°	3489.9	3472.4	3419.8	3353.1	3258.4	3184.8	3174.2	3107.6	3026.9	2928.7	2823.5
15°	3595.1	3577.6	3521.5	3444.3	3335.6	3279.4	3265.4	3202.3	3121.6	3016.4	2907.7
17.5°	3647.7	3647.7	3588.1	3503.9	3402.2	3360.1	3349.6	3272.4	3198.8	3097.1	2988.3
20°	3665.2	3672.3	3630.1	3528.4	3440.8	3423.3	3412.7	3349.6	3265.4	3167.2	3065.5
22.5°	3675.8	3689.8	3654.7	3539.0	3465.3	3454.8	3447.8	3405.7	3339.0	3244.4	3142.6
25°	3710.9	3710.9	3686.3	3556.5	3496.9	3493.4	3493.4	3468.8	3423.3	3342.5	3240.8
27.5°	3763.5	3760.0	3728.4	3595.1	3567.0	3577.6	3574.1	3570.6	3539.0	3458.4	3349.6
30°	3851.2	3851.2	3816.1	3672.3	3654.7	3700.3	3703.8	3710.9	3661.8	3535.5	3447.8
32.5°	3984.5	3970.4	3935.4	3749.4	3721.4	3763.5	3770.5	3766.9	3724.9	3605.6	3563.5
35°	4394.8	4363.3	4237.0	3921.3	3781.0	3805.5	3809.1	3826.6	3833.6	3738.9	3717.8
37.5°	5113.9	5071.7	4878.8	4328.2	3970.4	3910.8	3907.2	3952.9	3991.4	3907.2	3907.2
40°	5896.0	5860.9	5748.6	5029.7	4321.1	4124.7	4110.7	4152.8	4201.9	4142.2	4159.8
42.5°	6569.4	6597.5	6608.0	5773.2	4847.2	4524.6	4486.0	4426.4	4503.5	4450.9	4521.0
45°	7074.5	7060.5	7253.3	6534.3	5527.7	5026.2	4973.5	4812.2	4910.3	4906.9	5061.2
47.5°	7611.1	7586.6	7667.2	7249.9	6302.8	5639.9	5559.3	5320.7	5468.1	5569.8	5825.8
50°	8119.7	8126.7	8154.8	7814.5	7144.6	6387.0	6285.3	5966.1	6176.5	6390.5	6751.8
52.5°	8782.6	8733.5	8698.4	8473.9	8088.1	7165.6	7099.0	6734.3	7028.8	7281.4	7762.0
55°	9361.3	9329.8	9308.7	9298.2	8877.3	8025.0	7954.8	7576.0	8000.5	8179.3	8887.8
57.5°	9978.6	9961.1	10073.3	10252.2	10083.9	8898.3	8824.6	8459.9	8933.4	9059.7	10108.4
60°	10431.0	10441.6	10750.3	11206.2	11090.5	9845.4	9757.7	9435.0	9841.8	9954.0	11329.0
62.5°	10434.6	10539.8	11255.3	12072.5	12205.8	10936.2	10834.4	10483.7	10774.8	10774.8	12423.3
65°	9438.4	9557.7	11164.1	12286.5	13335.2	12233.9	12135.6	11585.0	11693.7	11546.4	13450.9
67.5°	8445.8	8586.1	10097.9	12304.1	14127.9	13622.8	13507.1	12686.3	12500.4	12128.7	14170.0
70°	7786.5	7884.7	9147.3	12076.1	14604.9	15074.9	14987.2	13731.5	13135.3	12616.2	14019.1
72.5°	6555.4	6520.3	7726.9	10992.2	14871.4	16723.4	16649.7	14867.9	13686.0	12384.7	11956.8
75°	3805.5	3847.7	4794.6	8053.0	13405.4	17582.7	17575.7	15839.5	13444.0	10939.6	8239.0
77.5°	1097.8	1129.4	1574.8	3539.0	8477.5	14997.7	15478.3	14485.7	11364.1	7797.0	4272.0
80°	480.5	505.0	684.0	1178.5	3651.2	9796.2	10217.1	9796.2	6853.5	3577.6	1676.6
82.5°	284.1	301.6	445.4	729.5	1750.2	4661.4	5229.6	4566.7	2956.8	1518.7	694.4
85°	161.4	168.3	256.0	463.0	1101.4	1631.0	1830.9	1715.2	1441.6	862.8	364.8
87.5°	73.7	77.1	126.3	217.4	617.3	550.7	571.7	757.6	834.8	526.1	182.4
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°	2756.9	2756.9	2756.9	2756.9	2756.9	2756.9	2756.9	2756.9	2756.9	2756.9	2756.9
2.5°	2753.3	2742.8	2721.8	2714.7	2704.2	2707.7	2711.2	2711.2	2714.7	2704.2	2704.2
5°	2725.2	2707.7	2686.7	2686.7	2686.7	2714.7	2739.3	2753.3	2760.3	2760.3	2753.3
7.5°	2714.7	2693.7	2669.2	2676.1	2683.2	2718.3	2763.8	2809.5	2823.5	2823.5	2816.5
10°	2735.8	2714.7	2697.2	2707.7	2725.2	2753.3	2788.4	2830.5	2865.5	2869.1	2865.5
12.5°	2784.9	2760.3	2742.8	2763.8	2784.9	2802.4	2820.0	2837.5	2883.1	2890.1	2890.1
15°	2865.5	2841.0	2820.0	2837.5	2844.5	2844.5	2844.5	2844.5	2890.1	2897.1	2897.1
17.5°	2946.2	2925.2	2904.1	2907.7	2886.6	2858.6	2848.0	2844.5	2869.1	2890.1	2893.7
20°	3023.4	3005.9	2984.8	2949.7	2897.1	2844.5	2826.9	2826.9	2841.0	2872.6	2872.6
22.5°	3107.6	3086.5	3051.4	2970.8	2883.1	2809.5	2791.9	2802.4	2820.0	2862.0	2858.6
25°	3202.3	3174.2	3114.6	2963.7	2837.5	2749.8	2753.3	2784.9	2816.5	2862.0	2862.0
27.5°	3307.5	3268.9	3149.7	2907.7	2735.8	2651.6	2683.2	2756.9	2802.4	2851.5	2858.6
30°	3423.3	3388.2	3177.7	2809.5	2570.9	2493.8	2570.9	2690.2	2760.3	2806.0	2816.5
32.5°	3563.5	3535.5	3202.3	2683.2	2357.0	2290.4	2402.6	2549.9	2662.1	2714.7	2725.2
35°	3738.9	3710.9	3233.9	2539.3	2157.1	2086.9	2188.6	2339.4	2486.7	2553.4	2574.4
37.5°	3966.9	3924.8	3261.9	2385.0	1988.7	1908.0	1957.1	2093.9	2227.2	2318.4	2343.0
40°	4258.0	4191.4	3286.5	2209.7	1841.4	1750.2	1767.7	1834.4	1911.5	1992.2	2023.8
42.5°	4668.4	4535.1	3289.9	2023.8	1690.6	1606.4	1599.4	1620.4	1620.4	1620.4	1631.0
45°	5240.1	4987.6	3297.0	1848.4	1536.2	1448.6	1427.5	1420.5	1367.9	1266.2	1259.1
47.5°	5962.6	5580.3	3328.5	1701.1	1374.9	1297.7	1269.7	1241.6	1143.4	1038.2	1017.1
50°	6888.6	6267.8	3391.6	1560.8	1238.2	1185.5	1150.5	1083.8	975.1	894.4	873.4
52.5°	7954.8	7085.0	3451.3	1413.5	1136.4	1101.4	1059.2	978.6	862.8	813.7	806.7
55°	9179.0	7996.9	3570.6	1283.7	1048.8	1024.2	985.6	908.4	820.7	785.7	782.1
57.5°	10431.0	9017.6	3738.9	1168.0	964.6	950.5	950.5	883.9	827.8	813.7	813.7
60°	11637.7	9894.5	3609.2	1059.2	887.4	894.4	961.1	943.5	901.4	918.9	929.5
62.5°	12574.1	10410.0	2928.7	971.5	831.2	894.4	1066.3	1066.3	1017.1	1010.1	1010.1
65°	12973.9	10403.0	2058.8	904.9	810.2	982.0	1189.0	1132.9	1003.1	954.0	943.5
67.5°	12872.2	9947.1	1420.5	859.3	803.2	1073.3	1245.1	1087.3	940.0	897.9	866.3
70°	11977.9	8982.5	1094.3	817.2	792.7	1034.7	1227.6	1034.7	890.9	852.3	824.3
72.5°	9662.9	7204.2	908.4	775.2	750.6	957.5	1168.0	985.6	852.3	810.2	782.1
75°	6162.5	4531.6	768.1	719.0	669.9	859.3	1087.3	936.5	810.2	754.1	733.0
77.5°	2963.7	1953.7	669.9	652.4	603.3	796.2	1006.6	873.4	754.1	708.5	694.4
80°	1199.6	894.4	582.2	585.8	554.2	757.6	950.5	813.7	698.0	648.9	624.3
82.5°	624.3	519.1	491.0	505.0	505.0	722.6	908.4	764.6	648.9	627.8	547.2
85°	336.7	322.7	378.8	406.8	438.4	652.4	845.3	712.0	592.7	508.6	491.0
87.5°	164.8	210.5	213.9	245.5	305.1	522.6	712.0	596.3	494.5	410.4	403.3
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)