

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: P380938

Luminaire Tested: **PRV-XL-PA4A-8540-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P380938
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-PA4A-8540-U-T3
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(4) 85 CRI, 4000K, 785mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26568.8 lumens
Efficiency: N/A
Efficacy: 108.4 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

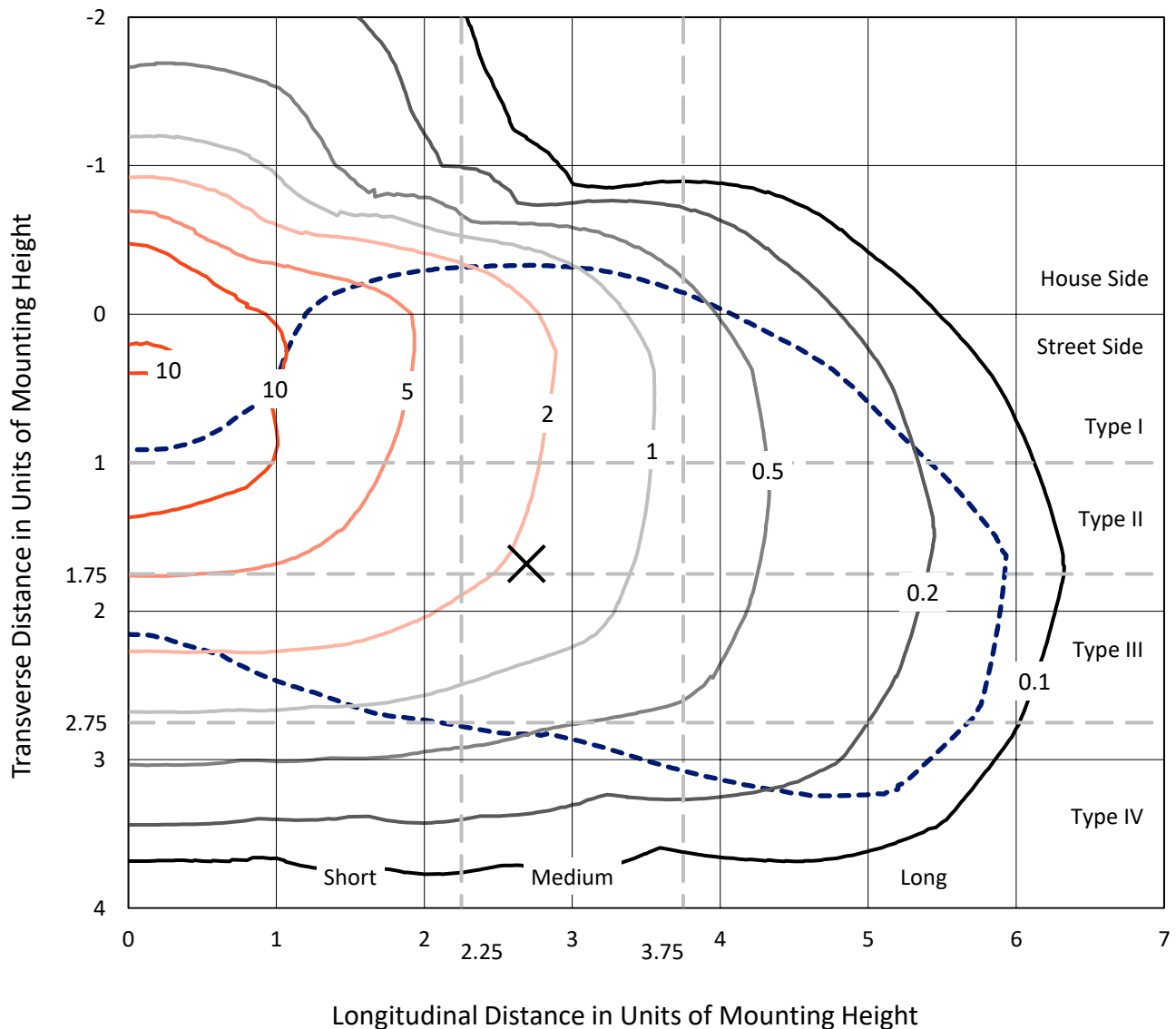


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

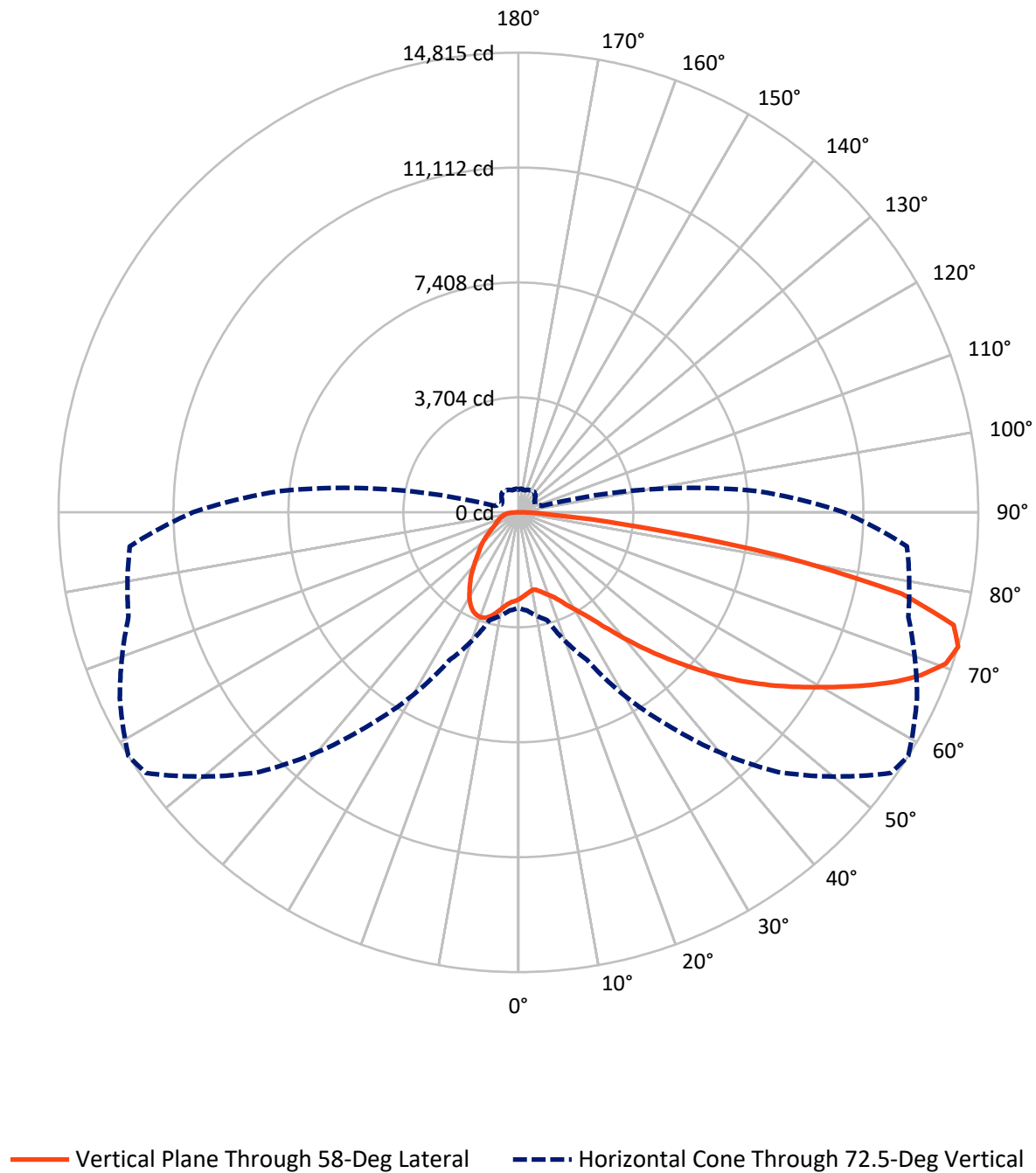


Based on 15 foot mounting height. Maximum calculated value = 14.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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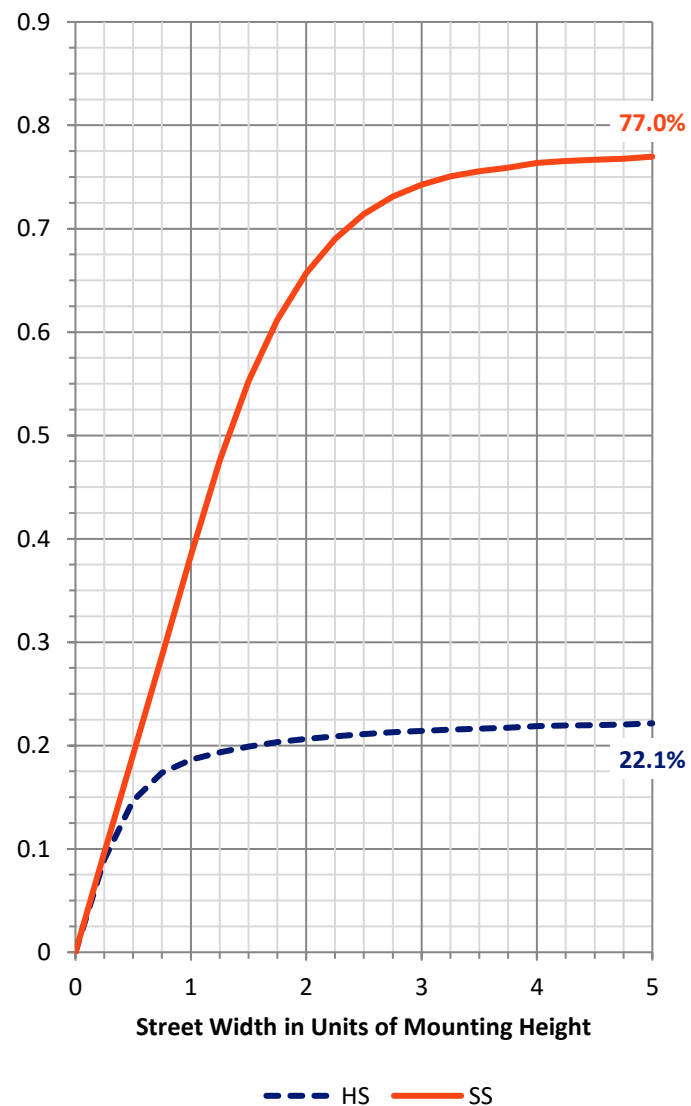
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6025.5	0.0	6025.5
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	20543.3	0.0	20543.3
	% Fixture	77.3	0.0	77.3
Total	Lumens	26568.8	0.0	26568.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.0	1.0
10°-20°	857.3	3.2
20°-30°	1535.8	5.8
30°-40°	2310.2	8.7
40°-50°	3741.1	14.1
50°-60°	5631.5	21.2
60°-70°	6627.7	24.9
70°-80°	4699.6	17.7
80°-90°	895.5	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°	26568.8	100.0
0°-180°	26568.8	100.0

Coefficient of Utilization



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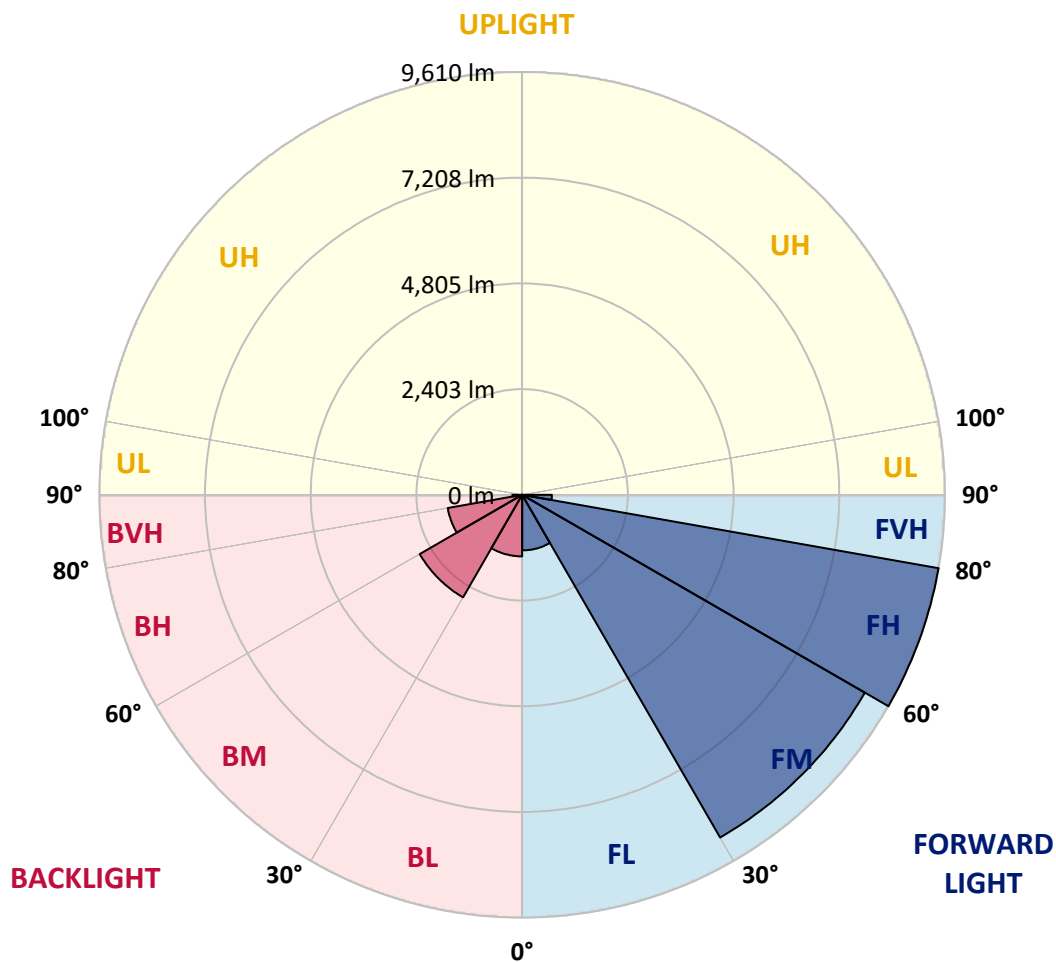
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1263.5	4.8			
FM	(30°-60°)	8994.3	33.9			
FH	(60°-80°)	9610.0	36.2			G4/12000
FVH	(80°-90°)	675.5	2.5			G4/750
BL	(0°-30°)	1399.6	5.3	B3/2500		
BM	(30°-60°)	2688.5	10.1	B3/5000		
BH	(60°-80°)	1717.3	6.5	B3/2500		G3/2500
BVH	(80°-90°)	220.0	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°	2802.4	2802.4	2802.4	2802.4	2802.4	2802.4	2802.4	2802.4	2802.4	2802.4	2802.4
2.5°	2697.2	2683.2	2686.7	2686.7	2700.7	2707.8	2711.2	2721.8	2728.8	2746.3	2770.9
5°	2571.0	2560.4	2563.9	2567.5	2592.0	2616.6	2637.6	2651.6	2672.7	2700.7	2735.8
7.5°	2479.8	2472.7	2476.2	2483.3	2504.3	2532.4	2567.5	2588.5	2620.1	2672.7	2732.3
10°	2413.1	2413.1	2416.7	2430.7	2451.7	2486.8	2514.8	2539.3	2602.5	2697.2	2788.4
12.5°	2360.5	2360.5	2371.0	2399.1	2434.2	2469.3	2535.9	2563.9	2648.1	2777.8	2886.6
15°	2357.0	2360.5	2364.0	2388.5	2427.1	2504.3	2602.5	2644.6	2746.3	2900.6	3026.9
17.5°	2413.1	2416.7	2402.6	2409.6	2455.2	2563.9	2693.7	2742.8	2872.6	3040.9	3170.8
20°	2585.0	2585.0	2542.9	2504.3	2535.9	2655.2	2802.4	2851.5	2995.4	3181.3	3311.0
22.5°	2935.7	2953.2	2855.1	2770.9	2721.8	2788.4	2921.7	2974.3	3135.7	3335.6	3465.3
25°	3360.1	3377.6	3244.4	3125.1	3034.0	3023.4	3111.1	3167.2	3300.5	3507.4	3616.1
27.5°	3770.5	3738.9	3616.1	3503.9	3388.2	3293.5	3360.1	3409.3	3563.6	3721.4	3788.0
30°	4093.2	4068.6	3949.4	3868.7	3760.0	3637.2	3598.6	3651.2	3777.5	3924.8	3959.9
32.5°	4451.0	4433.4	4314.2	4208.9	4117.7	4002.0	3917.8	3942.3	4012.5	4117.7	4138.8
35°	4906.9	4945.5	4819.2	4605.3	4503.6	4391.3	4331.7	4338.7	4391.3	4457.9	4422.9
37.5°	5387.4	5433.0	5440.0	5103.3	4966.5	4864.8	4801.7	4826.3	4889.4	4934.9	4826.3
40°	6278.3	6232.7	6050.3	5801.3	5590.9	5492.7	5405.0	5401.4	5447.0	5527.7	5331.3
42.5°	7460.3	7418.2	7050.0	6727.2	6394.1	6281.8	6110.0	6036.3	6057.4	6159.1	5885.5
45°	8593.2	8575.7	8281.1	7905.7	7505.9	7288.5	6895.6	6716.7	6699.2	6779.8	6453.6
47.5°	9599.8	9522.7	9308.7	9017.6	8975.5	8407.3	7684.8	7442.8	7358.6	7404.2	7039.4
50°	10676.6	10413.6	10118.9	9940.0	10245.2	9715.6	8481.0	8228.5	8021.5	8053.1	7674.3
52.5°	11248.3	10806.4	10613.5	10666.1	11076.5	10873.1	9347.3	9038.6	8705.5	8751.0	8305.6
55°	10757.3	10753.8	10838.0	11164.2	11735.8	11500.9	10171.6	9824.3	9459.6	9470.1	9031.7
57.5°	10083.9	10220.7	10655.6	11374.6	12553.1	12160.3	10981.8	10613.5	10280.3	10227.7	9855.9
60°	9470.1	9620.9	10252.2	11339.6	12837.2	12763.5	11753.4	11430.7	11160.6	11006.3	10722.2
62.5°	8537.1	8649.3	9543.8	11115.1	12598.7	13198.5	12535.6	12314.6	12111.1	11792.0	11655.2
65°	7439.3	7477.9	8421.3	10375.0	12300.5	13366.8	13314.2	13216.0	13019.6	12549.6	12577.6
67.5°	6250.2	6327.4	7155.1	9193.0	11648.2	13289.7	13917.5	13998.2	13766.7	13061.7	13166.9
70°	4984.0	5078.8	5706.6	7558.5	10539.8	12956.5	14475.2	14605.0	14159.5	13230.0	13275.6
72.5°	3083.1	3174.2	3595.1	5250.6	8354.7	11837.6	14647.0	14815.4	14170.0	13005.6	12567.2
75°	1066.3	1076.8	1406.5	2518.4	4959.5	8936.9	14085.9	14482.2	13724.6	12188.3	10936.2
77.5°	487.5	505.0	624.3	1038.2	2199.1	4822.7	11630.7	12623.2	12370.7	10911.7	8417.9
80°	336.7	343.7	431.4	620.8	1269.7	1697.6	7341.1	8635.3	9077.2	8449.4	5394.4
82.5°	252.5	259.6	333.2	420.9	915.4	824.3	2795.4	4012.5	4987.6	4896.4	2255.3
85°	242.0	238.5	259.6	280.6	610.3	491.0	904.9	1241.6	1946.6	1666.1	568.2
87.5°	105.2	115.7	266.5	157.9	319.2	228.0	392.8	459.5	592.7	515.6	203.4
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°	2802.4	2802.4	2802.4	2802.4	2802.4	2802.4	2802.4	2802.4	2802.4	2802.4	2802.4
2.5°	2781.4	2788.4	2809.5	2841.0	2858.6	2893.7	2918.2	2932.2	2942.7	2946.3	2946.3
5°	2756.9	2770.9	2816.5	2869.1	2918.2	2991.8	3058.5	3097.1	3125.1	3135.7	3139.1
7.5°	2763.8	2798.9	2865.5	2942.7	3005.9	3100.6	3181.3	3258.4	3321.6	3346.1	3346.1
10°	2830.5	2879.6	2970.8	3072.5	3153.2	3251.4	3335.6	3402.2	3475.9	3517.9	3525.0
12.5°	2932.2	2991.8	3111.1	3223.3	3314.5	3391.7	3468.8	3517.9	3553.0	3584.6	3591.6
15°	3076.0	3149.7	3268.9	3384.7	3465.3	3514.4	3535.5	3535.5	3532.0	3535.5	3542.5
17.5°	3219.9	3290.0	3409.3	3525.0	3563.6	3535.5	3511.0	3503.9	3500.4	3493.4	3496.9
20°	3360.1	3426.8	3528.5	3616.1	3584.6	3486.4	3454.8	3451.3	3440.8	3433.8	3426.8
22.5°	3500.4	3549.5	3633.7	3665.3	3539.0	3398.7	3360.1	3339.1	3325.0	3307.5	3290.0
25°	3661.8	3675.8	3738.9	3689.8	3426.8	3237.4	3181.3	3149.7	3135.7	3118.1	3104.0
27.5°	3812.6	3812.6	3823.1	3651.2	3261.9	3023.4	2939.2	2883.1	2879.6	2876.1	2872.6
30°	3949.4	3931.8	3896.8	3535.5	3048.0	2760.4	2634.1	2577.9	2599.0	2616.6	2620.1
32.5°	4110.8	4075.7	3977.4	3377.6	2791.9	2465.7	2311.4	2286.8	2311.4	2332.5	2318.4
35°	4363.3	4300.1	4061.6	3195.3	2546.4	2195.7	2048.3	2013.2	2006.3	2002.8	1974.6
37.5°	4724.5	4615.8	4128.2	2998.9	2304.4	1957.1	1848.4	1774.7	1708.1	1638.0	1627.5
40°	5166.5	4980.6	4173.9	2774.4	2048.3	1757.2	1641.5	1546.8	1434.5	1311.8	1297.7
42.5°	5650.4	5373.4	4194.9	2525.3	1823.8	1592.4	1448.6	1329.3	1203.1	1108.3	1090.8
45°	6173.1	5797.8	4177.4	2286.8	1641.5	1452.1	1290.7	1161.0	1059.2	992.6	978.6
47.5°	6681.7	6285.3	4128.2	2097.4	1501.2	1332.8	1168.0	1048.8	971.5	897.9	880.3
50°	7334.0	6751.8	4068.6	1950.1	1346.8	1213.6	1090.8	964.6	876.9	841.8	834.8
52.5°	8056.6	7218.3	3998.5	1764.3	1196.0	1118.9	1041.7	929.5	901.4	834.8	824.3
55°	8838.7	7772.4	3984.5	1529.3	1062.8	1052.2	992.6	961.1	968.0	834.8	817.2
57.5°	9663.0	8365.3	4016.0	1294.2	954.0	992.6	1013.7	989.1	978.6	852.3	817.2
60°	10522.3	8936.9	3921.3	1076.8	869.8	943.5	1038.2	975.1	897.9	845.3	820.7
62.5°	11357.1	9417.5	3511.0	922.5	806.7	929.5	1024.2	922.5	834.8	834.8	824.3
65°	11963.8	9631.4	2746.3	810.2	764.6	912.0	999.7	887.4	817.2	841.8	827.8
67.5°	12034.0	9410.4	1844.9	722.6	729.5	880.3	943.5	855.8	799.7	862.9	841.8
70°	11602.6	8835.2	1129.4	655.9	684.0	824.3	894.4	824.3	775.2	845.3	813.7
72.5°	10483.7	7762.0	796.2	599.8	634.9	771.6	848.8	796.2	740.1	764.6	733.0
75°	8600.2	6015.2	631.3	547.2	585.8	722.6	810.2	754.1	698.0	687.5	666.4
77.5°	6092.4	3854.6	508.6	505.0	533.1	662.9	757.6	705.0	648.9	627.8	613.8
80°	3503.9	1890.5	438.4	455.9	484.1	603.3	694.4	648.9	596.3	564.7	543.6
82.5°	1339.9	659.4	385.8	396.4	427.9	540.1	631.3	592.7	540.1	568.2	477.0
85°	435.0	361.3	315.7	326.2	357.8	449.0	557.7	526.1	466.5	413.9	382.3
87.5°	192.9	196.5	168.3	185.9	224.5	298.2	406.8	385.8	340.2	284.1	273.6
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)