

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: P622606

Luminaire Tested: **PRV-M-PA6A-8540-U-T3-HSS**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622606
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-11)
Test Lab: INNOVATION CENTER
Issue Date: 9/29/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-M-PA6A-8540-U-T3-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 85 CRI, 4000K LIGHT ENGINES AND TYPE III OPTICS WITH HOUSE SIDE
SHIELD, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23614.5 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 273.8
Input Voltage (V): NR
Input Current (A_{in}): 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

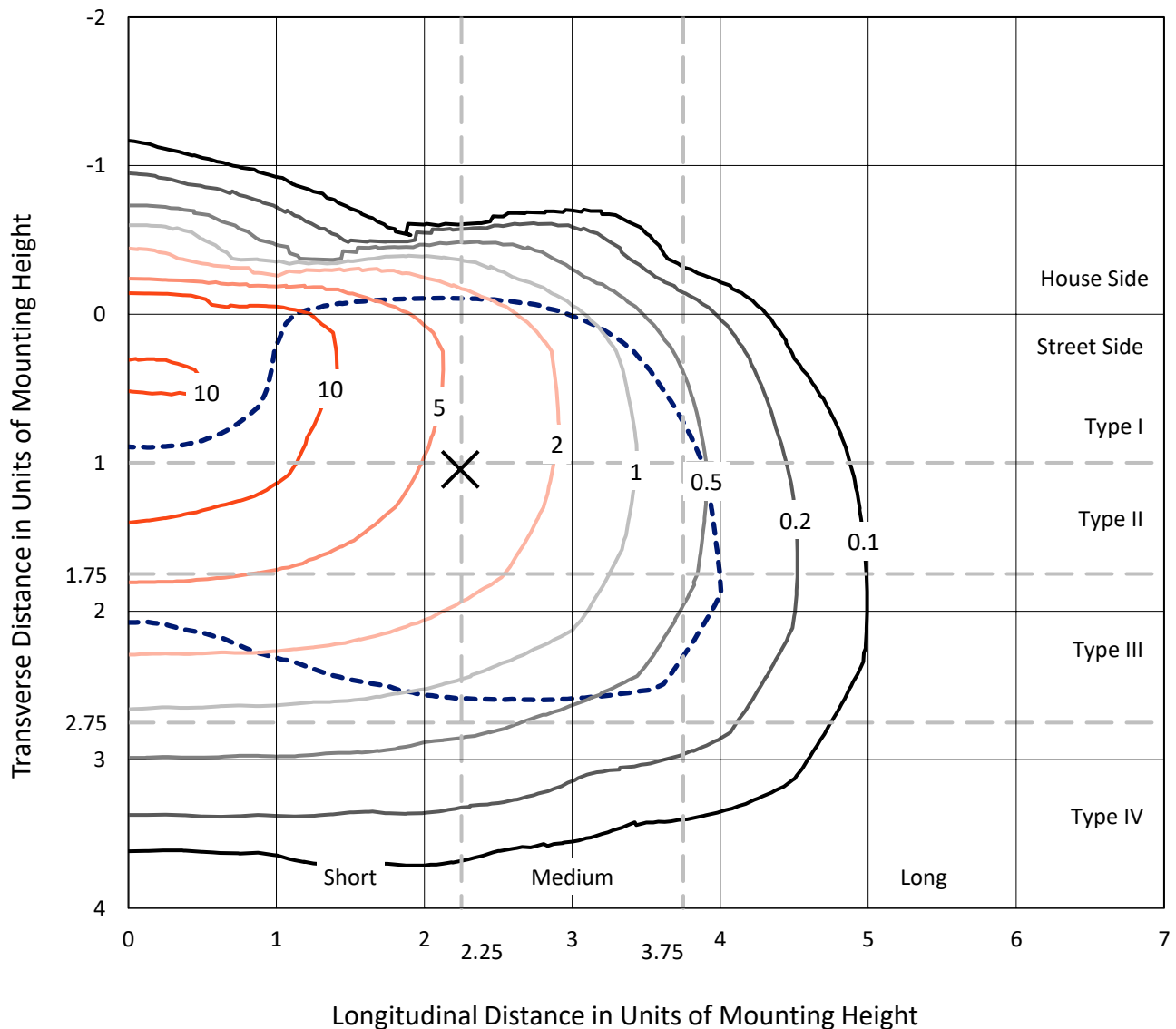


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

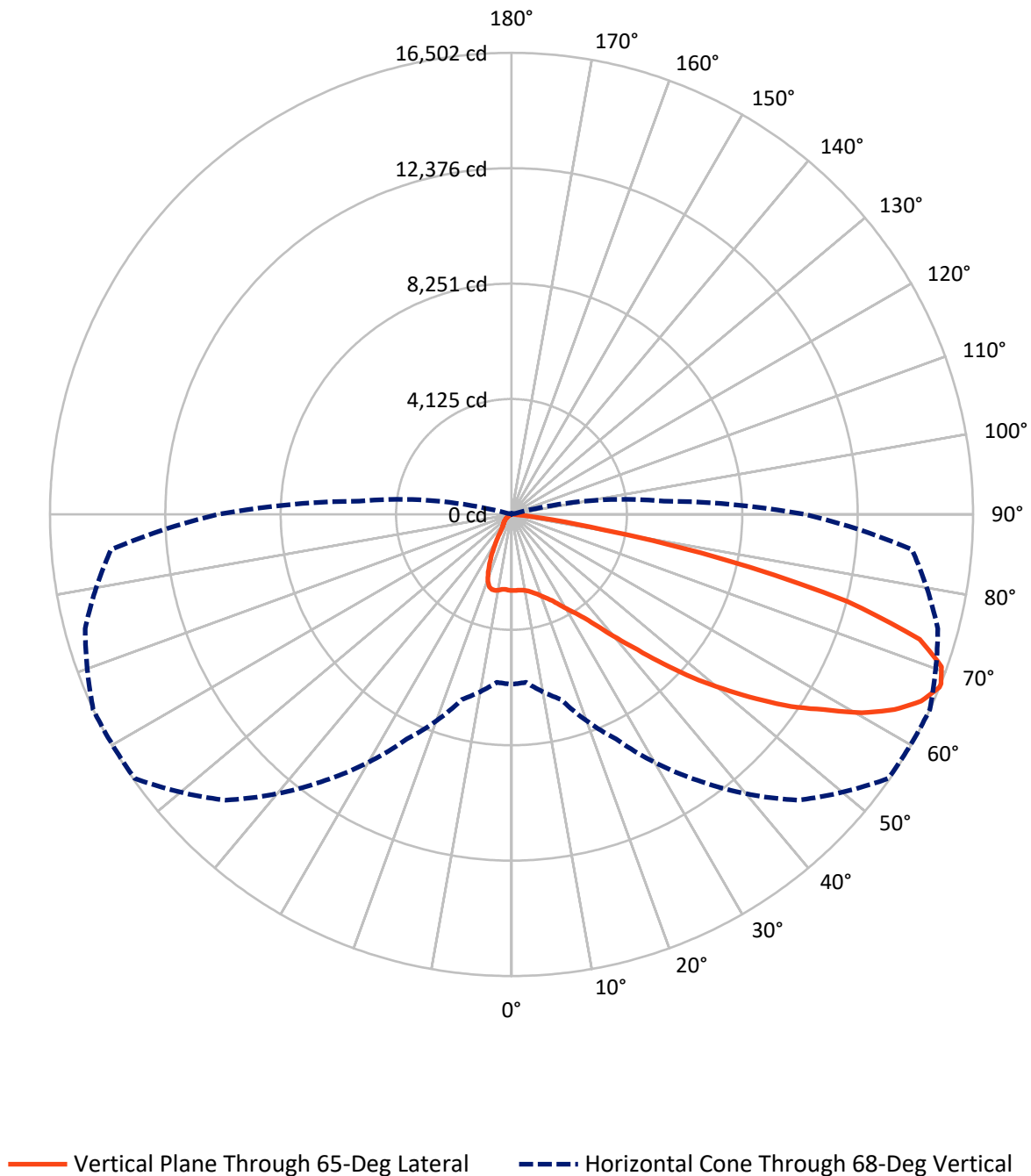


Based on 15 foot mounting height. Maximum calculated value = 15.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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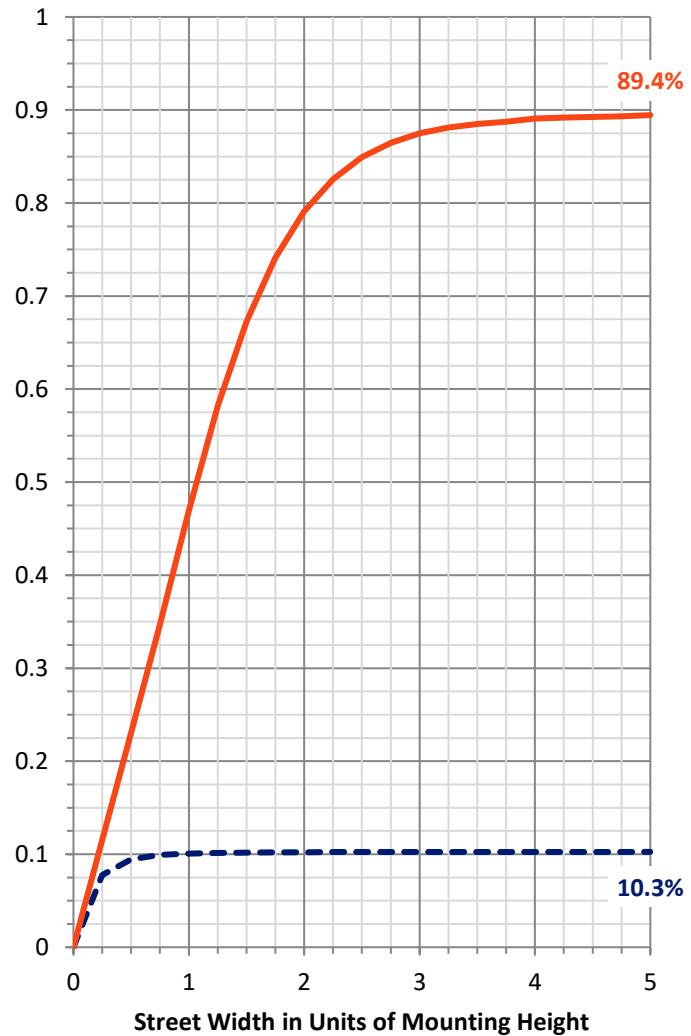
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2443.2	0.0	2443.2
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	21171.3	0.0	21171.3
	% Fixture	89.7	0.0	89.7
Total	Lumens	23614.5	0.0	23614.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.5	1.1
10°-20°	666.6	2.8
20°-30°	1055.2	4.5
30°-40°	1842.2	7.8
40°-50°	3574.3	15.1
50°-60°	5792.7	24.5
60°-70°	6733.3	28.5
70°-80°	3495.8	14.8
80°-90°	200.9	0.9
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°	23614.5	100.0
0°-180°	23614.5	100.0

Coefficient of Utilization



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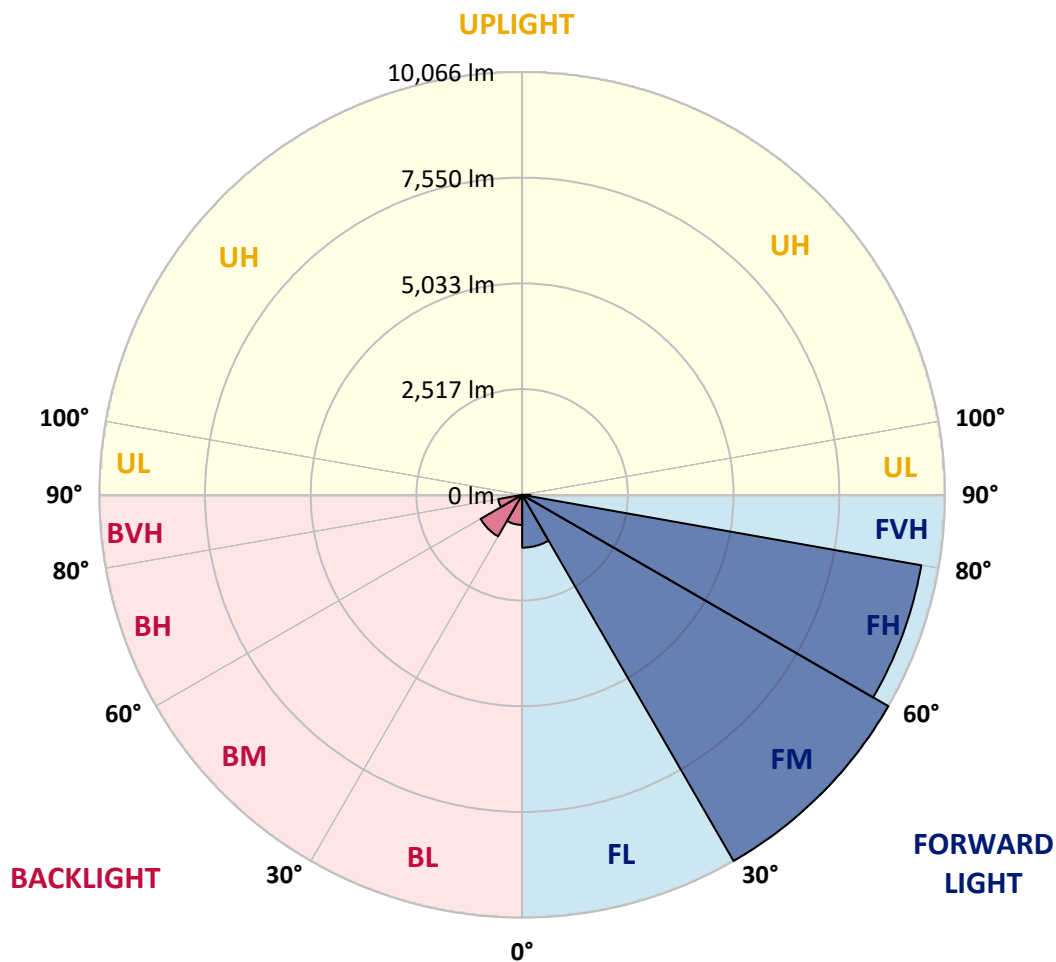
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1258.2	5.3			
FM	(30°-60°)	10066.4	42.6			
FH	(60°-80°)	9650.1	40.9			G4/12000
FVH	(80°-90°)	196.6	0.8			G2/225
BL	(0°-30°)	717.1	3.0	B2/1000		
BM	(30°-60°)	1142.9	4.8	B2/2500		
BH	(60°-80°)	579.0	2.5	B2/1000		G2/1000
BVH	(80°-90°)	4.3	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2721.7	2721.7	2721.7	2721.7	2721.7	2721.7	2721.7	2721.7	2721.7	2721.7	2721.7
2.5°	2754.6	2731.1	2732.7	2730.3	2721.7	2728.0	2724.1	2722.5	2716.2	2713.9	2713.1
5°	2707.6	2685.7	2692.7	2699.0	2699.0	2714.7	2717.8	2719.4	2712.3	2708.4	2703.7
7.5°	2634.0	2616.0	2627.7	2649.7	2665.3	2700.6	2719.4	2733.5	2731.9	2732.7	2727.2
10°	2572.9	2555.7	2578.4	2611.3	2643.4	2695.1	2731.9	2767.1	2787.5	2801.6	2800.0
12.5°	2552.6	2537.7	2558.8	2598.0	2639.5	2699.8	2755.4	2819.6	2868.1	2896.3	2892.4
15°	2555.7	2540.1	2561.2	2603.5	2648.9	2719.4	2800.8	2900.2	2972.3	2998.1	3002.8
17.5°	2580.8	2562.0	2578.4	2617.6	2671.6	2761.6	2876.0	3000.5	3091.3	3125.7	3125.0
20°	2614.4	2593.3	2608.2	2643.4	2706.8	2827.4	2971.5	3121.8	3228.2	3262.7	3258.0
22.5°	2664.5	2641.1	2652.0	2686.5	2767.9	2920.6	3084.2	3258.0	3375.4	3409.1	3395.0
25°	2801.6	2764.8	2742.8	2748.3	2846.2	3035.7	3239.2	3423.2	3546.1	3558.7	3536.7
27.5°	3151.6	3125.0	3014.6	2907.3	2941.7	3160.2	3438.1	3654.2	3765.4	3745.8	3716.0
30°	3872.6	3771.6	3597.8	3319.8	3156.3	3293.2	3629.9	3924.3	4025.3	3979.9	3922.8
32.5°	4733.9	4614.9	4359.7	3957.2	3591.5	3519.5	3859.3	4210.9	4328.3	4240.6	4182.7
35°	5582.7	5537.3	5271.9	4782.5	4247.7	3928.2	4168.6	4582.8	4746.5	4667.4	4607.1
37.5°	6548.2	6441.7	6215.4	5649.3	5045.6	4520.2	4592.2	5134.1	5360.3	5246.0	5151.3
40°	7517.5	7400.8	7173.8	6542.7	5962.5	5353.3	5204.5	5820.7	6130.8	5984.4	5826.2
42.5°	8475.1	8461.8	8172.1	7590.3	6931.0	6388.4	6079.1	6616.3	7003.1	6836.3	6572.4
45°	9711.4	9588.5	9222.9	8700.6	8140.8	7559.8	7170.6	7611.5	8075.8	7728.1	7307.7
47.5°	10472.5	10402.0	10108.4	9781.9	9457.8	8912.8	8382.7	8709.2	9103.9	8647.4	8040.5
50°	11120.8	11037.0	10828.7	10716.0	10700.3	10384.8	9687.9	9803.0	10136.6	9606.5	8744.5
52.5°	11523.3	11445.0	11311.1	11470.8	11843.5	11922.6	10962.6	10936.8	11265.6	10563.3	9413.1
55°	11532.7	11353.3	11459.0	11922.6	12783.9	13119.8	12274.2	12116.0	12237.4	11580.4	10038.7
57.5°	11130.2	11066.8	11379.2	12124.6	13393.1	14008.5	13494.1	13158.9	13252.1	12572.5	10582.1
60°	10307.3	10315.9	11002.6	12052.6	13759.5	14716.3	14628.6	14397.6	14269.2	13497.2	11003.3
62.5°	9151.6	9210.4	10090.4	11616.4	13682.0	15084.3	15616.0	15367.8	15056.9	14269.2	11239.8
65°	7861.2	7837.0	8782.8	10694.1	12983.5	15088.3	16279.1	16099.8	15650.4	14674.8	11172.5
67.5°	6386.1	6335.2	7194.1	9219.0	11888.1	14598.1	16453.7	16494.4	15811.7	14501.0	10668.2
68°	6069.0	6023.5	6847.3	8857.2	11607.0	14445.4	16448.2	16501.5	15779.6	14370.2	10499.9
70°	4744.9	4698.7	5371.3	7172.2	10188.2	13524.6	16189.1	16311.2	15363.1	13484.7	9538.4
72.5°	2663.8	2747.5	3351.2	4857.7	7600.5	11597.6	15135.2	15257.4	13849.5	10817.8	7177.7
75°	857.4	848.0	1364.8	2339.6	4336.2	7846.4	12397.9	12404.9	10401.2	6552.1	3965.8
77.5°	451.0	454.9	549.7	952.1	1761.0	3450.6	7591.1	7805.6	5387.0	2486.8	1354.6
80°	281.1	285.8	340.6	548.9	959.2	1173.7	3318.3	3327.7	1555.8	565.3	323.4
82.5°	189.5	192.6	238.0	356.3	638.1	480.0	1011.6	1000.7	440.8	178.5	108.1
85°	90.0	91.6	153.5	244.3	312.4	198.9	292.1	309.3	218.5	84.6	46.2
87.5°	18.8	21.1	77.5	106.5	94.0	39.2	82.2	65.8	89.3	34.5	21.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2721.7	2721.7	2721.7	2721.7	2721.7	2721.7	2721.7	2721.7	2721.7	2721.7
2.5°	2716.2	2718.6	2711.5	2699.0	2697.4	2694.3	2699.8	2698.2	2699.8	2681.8
5°	2705.3	2702.1	2688.8	2673.9	2670.8	2665.3	2667.7	2661.4	2662.2	2638.7
7.5°	2728.8	2719.4	2695.9	2665.3	2627.7	2580.8	2545.5	2507.9	2504.8	2476.6
10°	2802.4	2787.5	2745.2	2652.0	2531.4	2367.8	2216.7	2077.3	2040.5	1985.7
12.5°	2891.6	2869.7	2778.1	2586.2	2291.8	1952.0	1653.7	1501.0	1435.2	1403.9
15°	2996.5	2953.5	2771.8	2388.9	1854.1	1403.9	1130.7	968.6	930.2	903.6
17.5°	3119.5	3033.3	2707.6	2012.3	1395.3	980.3	797.1	750.1	744.6	743.8
20°	3246.2	3095.2	2528.3	1603.6	995.2	750.1	714.1	697.7	690.6	688.3
22.5°	3372.3	3129.7	2215.9	1215.2	749.3	693.0	667.1	643.6	632.7	624.1
25°	3510.1	3125.0	1848.7	878.5	682.0	647.5	610.7	577.9	562.2	551.2
27.5°	3675.3	3048.2	1471.3	694.5	633.4	590.4	543.4	502.7	480.0	474.5
30°	3866.4	2867.3	1109.5	614.7	571.6	526.2	465.9	413.4	390.7	386.0
32.5°	4104.4	2614.4	785.3	547.3	499.6	450.2	382.1	326.5	303.0	292.8
35°	4437.2	2319.2	599.8	483.9	427.5	367.2	296.8	254.5	234.1	230.2
37.5°	4841.2	2013.1	512.1	427.5	363.3	290.5	227.9	198.1	184.8	182.4
40°	5303.2	1703.0	457.3	375.1	303.0	225.5	177.0	153.5	148.0	147.2
42.5°	5755.8	1361.6	415.0	327.3	245.9	174.6	135.5	122.1	120.6	121.4
45°	6130.8	1006.9	373.5	283.4	195.0	134.7	107.3	98.7	101.0	102.6
47.5°	6429.9	703.1	333.6	238.0	152.7	108.8	88.5	83.0	86.9	88.5
50°	6653.1	523.0	295.2	194.2	122.9	90.8	75.2	70.5	76.7	78.3
52.5°	6794.8	432.2	252.1	155.8	102.6	78.3	63.4	59.5	67.3	69.7
55°	6870.7	374.3	213.8	127.6	88.5	67.3	53.2	50.9	59.5	61.9
57.5°	6856.7	324.9	178.5	107.3	79.1	59.5	44.6	43.1	52.5	55.6
60°	6729.0	278.7	146.4	90.0	70.5	52.5	38.4	36.8	47.0	49.3
62.5°	6502.7	230.2	118.2	76.7	63.4	47.0	32.9	31.3	39.9	42.3
65°	6120.6	178.5	92.4	66.6	57.2	41.5	28.2	24.3	32.1	33.7
67.5°	5597.6	137.0	74.4	57.2	51.7	37.6	23.5	18.8	24.3	25.8
68°	5468.4	130.0	71.3	54.8	50.1	36.8	22.7	18.0	23.5	24.3
70°	4816.9	107.3	60.3	47.8	45.4	32.9	19.6	14.1	18.0	18.8
72.5°	3293.2	85.3	49.3	39.9	37.6	28.2	15.7	10.2	13.3	13.3
75°	1084.5	65.0	38.4	29.0	27.4	21.1	11.0	7.0	8.6	8.6
77.5°	238.0	43.1	25.1	18.0	16.4	13.3	7.0	3.1	4.7	4.7
80°	75.2	21.9	14.1	10.2	9.4	7.0	3.9	0.8	0.8	1.6
82.5°	29.0	11.0	10.2	7.8	6.3	4.7	2.3	0.0	0.0	0.0
85°	14.9	7.8	7.8	6.3	4.7	3.1	1.6	0.0	0.0	0.0
87.5°	8.6	7.0	7.0	5.5	3.9	1.6	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

(END OF REPORT)