

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: P622608

Luminaire Tested: **PRV-M-PA6A-8540-U-T4W-HSS**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622608
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-13)
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-T4W-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 85 CRI, 4000K LIGHT ENGINES AND TYPE IV OPTICS WITH HOUSE SIDE
SHIELD, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23493.9 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 273.8
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

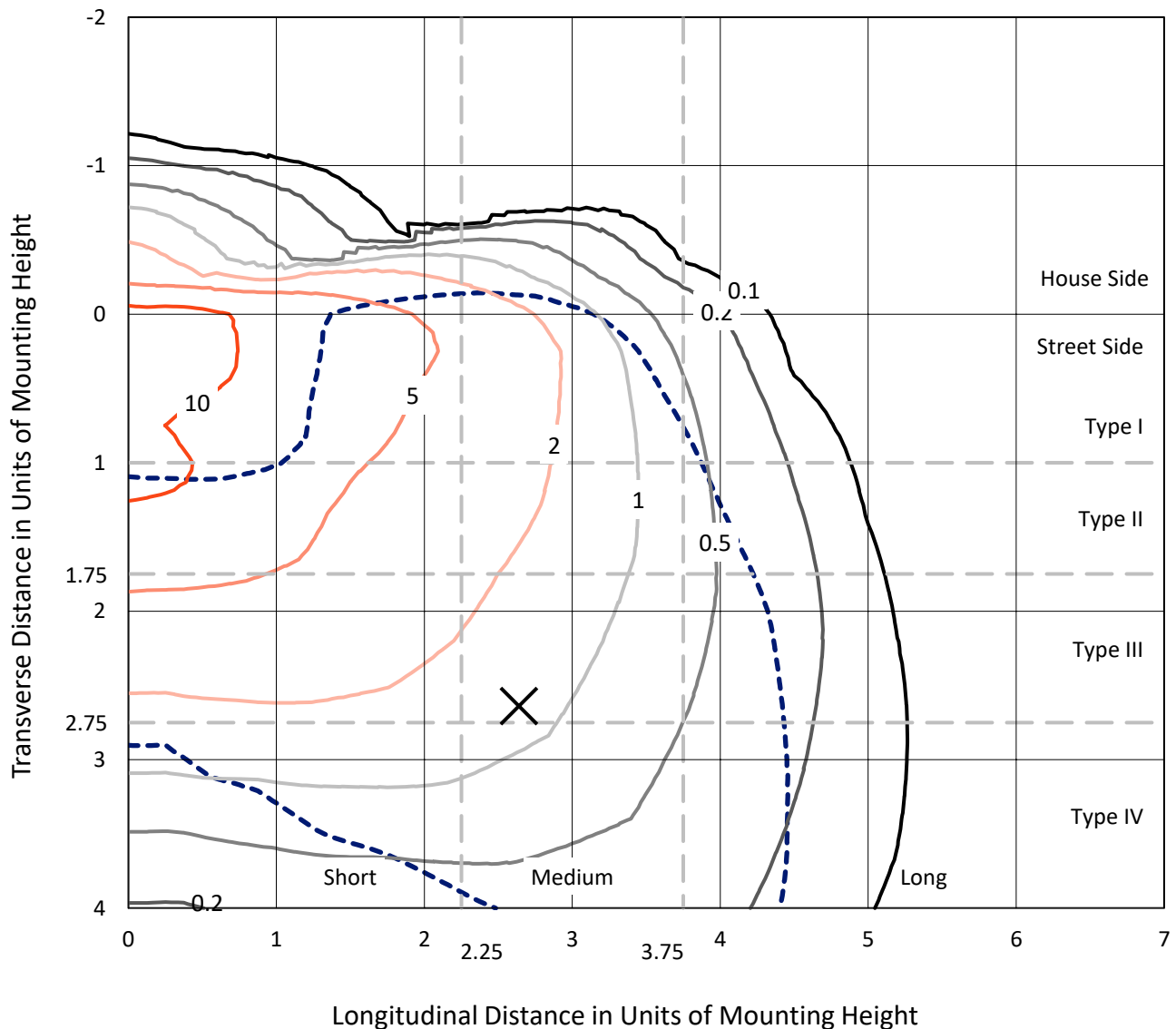


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

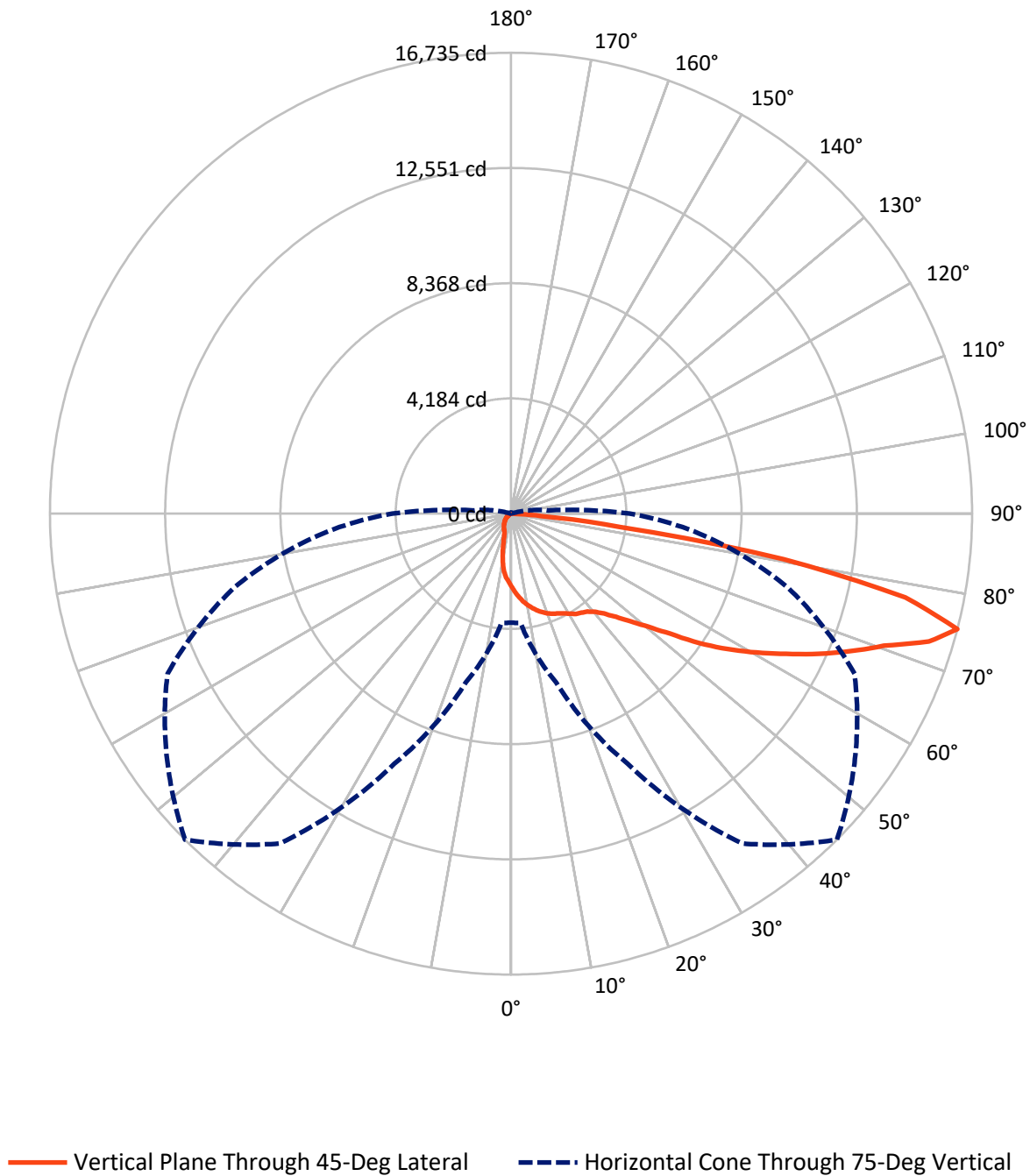


Based on 15 foot mounting height. Maximum calculated value = 16.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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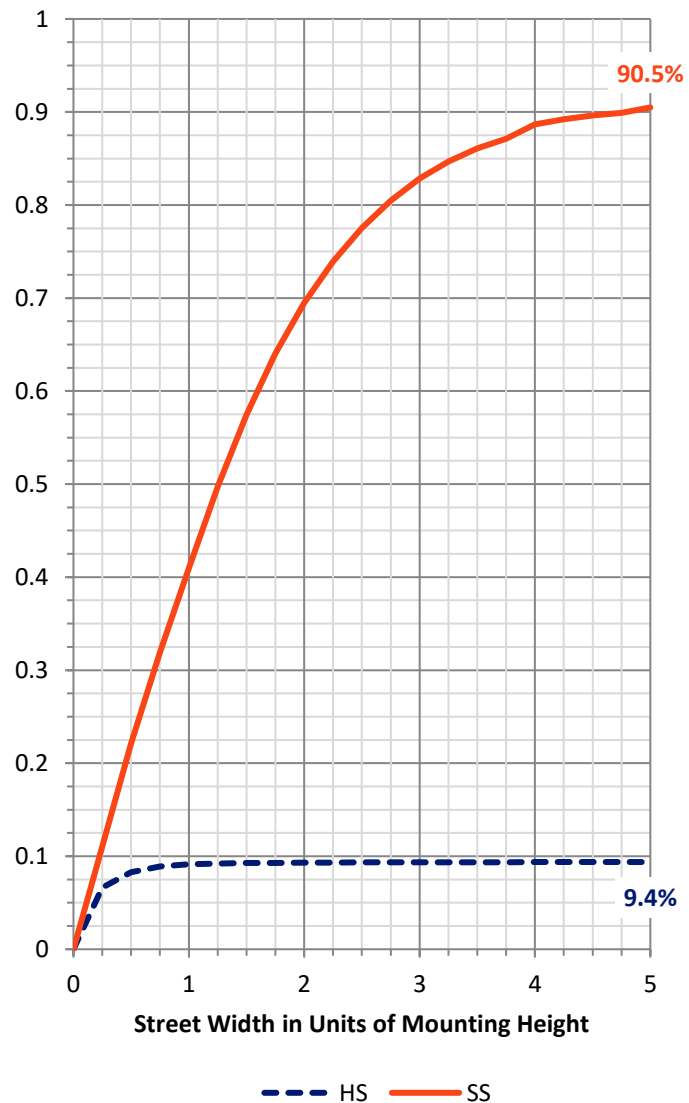
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2220.2	0.0	2220.2
	% Fixture	9.5	0.0	9.5
Street Side	Lumens	21273.7	0.0	21273.7
	% Fixture	90.5	0.0	90.5
Total	Lumens	23493.9	0.0	23493.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.8	1.1
10°-20°	726.7	3.1
20°-30°	1184.2	5.0
30°-40°	1671.2	7.1
40°-50°	2670.0	11.4
50°-60°	4527.7	19.3
60°-70°	6563.3	27.9
70°-80°	5342.5	22.7
80°-90°	555.6	2.4
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°	23493.9	100.0
0°-180°	23493.9	100.0

Coefficient of Utilization



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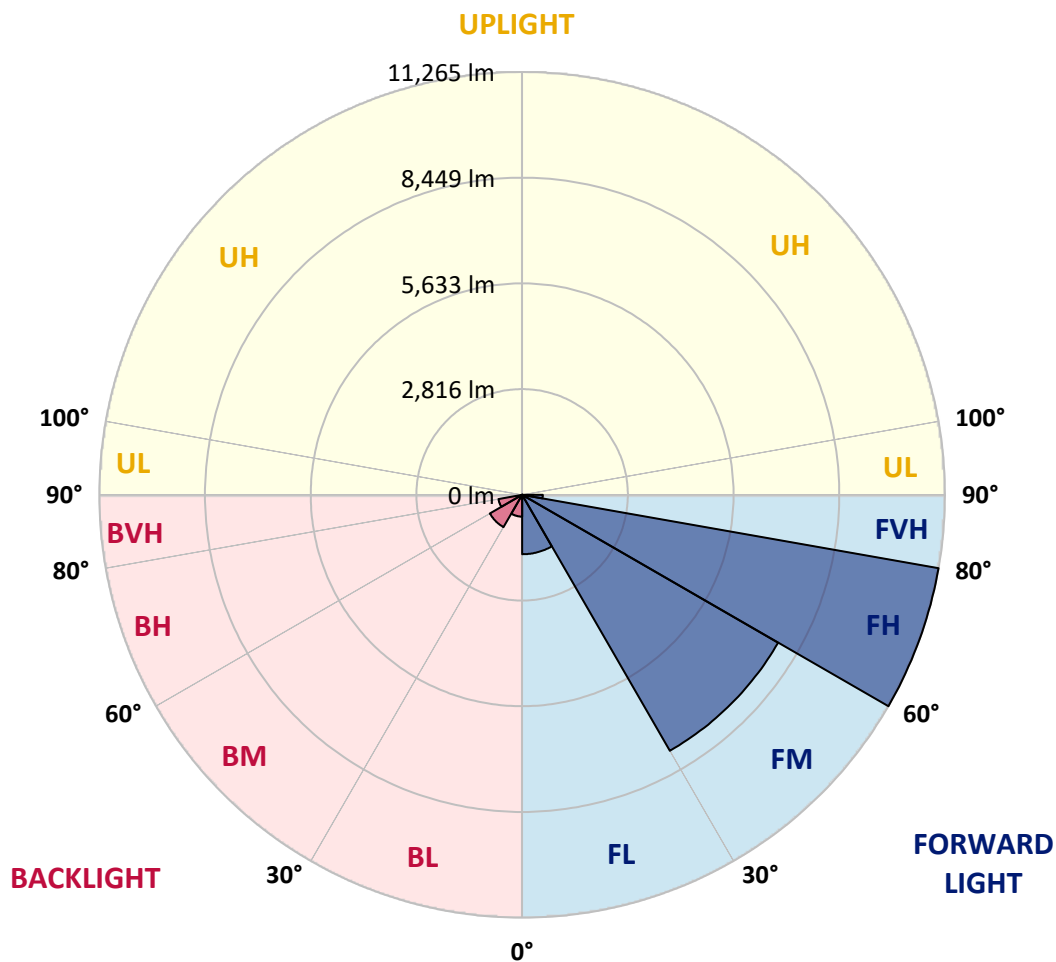
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1583.2	6.7			
FM	(30°-60°)	7875.3	33.5			
FH	(60°-80°)	11265.3	47.9			G4/12000
FVH	(80°-90°)	549.9	2.3			G4/750
BL	(0°-30°)	580.4	2.5	B2/1000		
BM	(30°-60°)	993.6	4.2	B1/1000		
BH	(60°-80°)	640.5	2.7	B2/1000		G2/1000
BVH	(80°-90°)	5.7	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°	65°	75°	85°	90°
0°	2645.0	2645.0	2645.0	2645.0	2645.0	2645.0	2645.0	2645.0	2645.0	2645.0	2645.0
2.5°	2940.9	2942.5	2930.8	2904.1	2873.6	2848.6	2803.1	2758.5	2710.7	2664.5	2644.2
5°	3236.9	3231.4	3208.7	3160.2	3101.5	3045.1	2952.7	2867.3	2769.5	2674.7	2631.7
7.5°	3511.8	3497.7	3461.6	3392.0	3316.0	3222.8	3103.8	2979.3	2843.9	2720.9	2657.5
10°	3750.6	3738.0	3685.6	3594.8	3492.2	3382.6	3250.2	3118.7	2973.1	2814.1	2735.0
12.5°	3958.1	3934.6	3871.2	3756.1	3634.7	3525.8	3391.2	3271.4	3099.9	2930.0	2832.1
15°	4135.0	4109.2	4036.4	3894.6	3752.9	3657.4	3536.0	3417.0	3253.4	3050.6	2937.8
17.5°	4256.4	4232.1	4153.0	3994.1	3850.0	3769.4	3678.5	3561.1	3396.7	3176.6	3050.6
20°	4296.3	4269.7	4203.9	4041.8	3912.7	3869.6	3792.1	3692.6	3532.1	3305.8	3170.4
22.5°	4258.0	4232.1	4186.7	4037.9	3947.9	3944.8	3893.1	3813.2	3659.7	3431.9	3285.5
25°	4203.9	4179.7	4142.1	4015.2	3970.6	4012.9	3987.8	3921.3	3794.4	3566.6	3423.3
27.5°	4182.8	4156.2	4122.5	4018.4	4016.0	4098.2	4099.0	4050.5	3931.4	3706.7	3557.2
30°	4218.0	4188.3	4150.7	4062.2	4091.2	4216.5	4252.5	4197.7	4059.9	3836.7	3694.2
32.5°	4306.5	4253.3	4207.1	4127.2	4175.0	4337.8	4394.2	4308.1	4161.6	3969.8	3844.5
35°	4458.4	4376.2	4299.5	4212.5	4250.1	4415.3	4498.3	4432.6	4285.4	4131.1	4027.0
37.5°	4784.9	4681.6	4555.5	4382.5	4359.0	4509.3	4637.7	4629.1	4478.0	4343.3	4262.7
40°	5423.1	5293.1	5110.6	4737.2	4546.9	4680.8	4856.9	4901.6	4749.7	4633.0	4575.9
42.5°	6469.9	6338.4	6010.3	5304.8	4843.6	4957.2	5155.3	5273.5	5117.7	5041.7	4990.8
45°	7568.5	7467.5	7131.6	6145.8	5336.1	5347.9	5558.5	5778.5	5680.7	5596.1	5524.8
47.5°	8401.6	8303.7	8062.6	7163.7	6093.3	5833.4	6054.9	6388.5	6343.1	6270.3	6194.3
50°	8995.9	8891.0	8736.7	8122.8	7074.4	6444.1	6641.4	7095.5	7208.3	7165.2	7023.5
52.5°	9552.6	9446.9	9314.6	8958.3	8180.8	7236.5	7339.1	7956.8	8151.0	8173.0	7863.7
55°	10014.6	9931.6	9987.2	9760.9	9330.2	8297.5	8153.4	8851.0	9153.3	9310.7	8823.6
57.5°	10305.1	10214.2	10518.0	10643.3	10493.0	9281.7	9024.9	9833.7	10146.1	10539.2	9719.4
60°	10593.2	10489.1	10908.8	11427.9	11589.2	10234.6	9987.2	10823.4	11146.0	11949.4	10623.0
62.5°	10759.2	10644.9	11223.5	12025.3	12470.8	11208.6	11014.5	11828.8	12173.3	13423.0	11389.5
65°	10187.6	10160.2	11317.5	12417.6	13197.5	12279.8	12112.2	12831.8	13200.6	14771.3	12006.5
67.5°	9482.1	9476.6	11023.1	12663.5	13792.5	13320.4	13156.7	13859.9	14158.2	15572.3	12114.6
70°	8965.4	8966.9	10493.8	12988.4	14475.3	14356.3	14183.3	14822.2	14759.6	14985.8	11139.7
72.5°	7427.5	7501.9	9129.0	12507.6	15302.2	15863.6	15111.1	15262.2	13837.2	11608.0	8205.8
75°	3954.2	3986.3	6340.7	10020.8	14617.0	16735.1	15260.7	13755.0	10410.8	6466.0	4311.2
77.5°	1331.1	1302.9	2208.8	5407.4	11150.7	14631.9	12508.4	9674.7	5570.3	2132.1	1393.0
80°	420.5	434.6	714.9	1719.5	5885.0	10039.6	7529.3	4792.0	1666.2	476.8	274.8
82.5°	189.5	205.1	328.9	754.8	2312.2	3987.8	3643.3	1654.5	571.6	152.7	102.6
85°	71.3	76.0	161.3	429.9	938.8	1094.6	1264.5	606.0	367.2	60.3	40.7
87.5°	17.2	19.6	66.6	139.4	219.2	148.8	208.3	223.9	205.9	21.1	16.4
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2645.0	2645.0	2645.0	2645.0	2645.0	2645.0	2645.0	2645.0	2645.0	2645.0
2.5°	2624.6	2581.6	2551.8	2508.7	2469.6	2455.5	2434.3	2428.1	2428.9	2410.1
5°	2593.3	2514.2	2449.2	2376.4	2311.4	2261.3	2208.1	2178.3	2165.0	2157.9
7.5°	2600.3	2484.5	2370.9	2234.7	2089.0	1968.5	1859.6	1797.0	1763.3	1757.1
10°	2658.3	2497.8	2308.3	2049.9	1784.5	1583.2	1428.2	1342.8	1292.0	1284.9
12.5°	2738.9	2521.3	2207.3	1807.9	1436.8	1165.9	996.0	940.4	924.7	923.2
15°	2828.2	2533.0	2059.3	1519.8	1082.9	851.9	774.4	781.4	790.8	791.6
17.5°	2925.3	2522.8	1862.8	1208.2	825.3	720.4	698.4	718.8	745.4	746.2
20°	3029.4	2480.5	1630.2	929.4	707.0	668.7	667.1	682.8	711.0	714.1
22.5°	3134.3	2401.5	1344.4	751.7	649.1	640.5	635.8	646.0	674.2	677.3
25°	3241.6	2280.1	1063.3	649.1	613.9	610.0	602.9	609.2	632.7	636.6
27.5°	3353.6	2139.2	838.6	584.1	573.9	572.4	570.0	567.7	588.8	593.5
30°	3458.5	1937.9	666.3	537.9	526.2	527.7	525.4	525.4	542.6	546.5
32.5°	3568.9	1725.7	559.1	496.4	478.4	476.1	478.4	480.8	491.7	495.6
35°	3688.7	1479.9	498.0	458.1	433.8	422.8	423.6	427.5	435.3	439.3
37.5°	3826.5	1245.0	457.3	422.8	393.1	375.1	365.7	365.7	374.3	374.3
40°	3994.1	996.8	427.5	389.9	355.5	328.9	310.9	297.5	293.6	299.9
42.5°	4196.9	793.2	402.5	364.1	320.2	287.4	254.5	227.1	220.0	222.4
45°	4451.4	620.9	379.0	337.5	284.2	241.9	198.1	162.1	152.7	155.0
47.5°	4756.7	509.0	354.7	308.5	246.6	196.5	139.4	109.6	108.8	111.2
50°	5114.6	434.6	325.7	280.3	210.6	148.0	94.0	76.7	83.8	87.7
52.5°	5510.8	392.3	297.5	252.9	173.0	103.4	66.6	61.1	70.5	73.6
55°	5910.1	363.3	270.1	221.6	134.7	73.6	52.5	51.7	61.9	64.2
57.5°	6250.7	329.6	243.5	186.4	101.8	58.7	46.2	46.2	56.4	58.7
60°	6518.5	285.0	212.2	142.5	78.3	51.7	40.7	40.7	51.7	54.0
62.5°	6722.1	220.0	165.2	105.7	66.6	48.5	36.8	36.0	47.0	50.1
65°	6771.4	152.7	120.6	80.6	60.3	46.2	32.9	31.3	42.3	44.6
67.5°	6546.7	108.1	90.0	65.0	56.4	44.6	29.8	26.6	36.8	39.2
70°	5686.9	83.8	69.7	53.2	54.0	43.8	27.4	22.7	29.8	31.3
72.5°	3836.7	68.9	56.4	45.4	50.9	41.5	24.3	18.0	23.5	24.3
75°	1362.4	55.6	44.6	36.8	43.8	36.8	20.4	14.1	17.2	18.0
77.5°	245.1	40.7	32.1	26.6	33.7	29.0	16.4	10.2	12.5	12.5
80°	61.9	23.5	18.8	14.9	22.7	20.4	12.5	7.8	8.6	8.6
82.5°	25.8	12.5	12.5	10.2	12.5	12.5	7.8	4.7	5.5	5.5
85°	14.9	10.2	10.2	8.6	8.6	7.8	5.5	3.1	1.6	2.3
87.5°	10.2	9.4	8.6	7.8	7.0	4.7	3.1	1.6	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)