

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: P622687

Luminaire Tested: **PRV-M-PA6B-8540-U-T3-HSS**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622687
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-PA6B-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: 29848.7 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 365.8
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



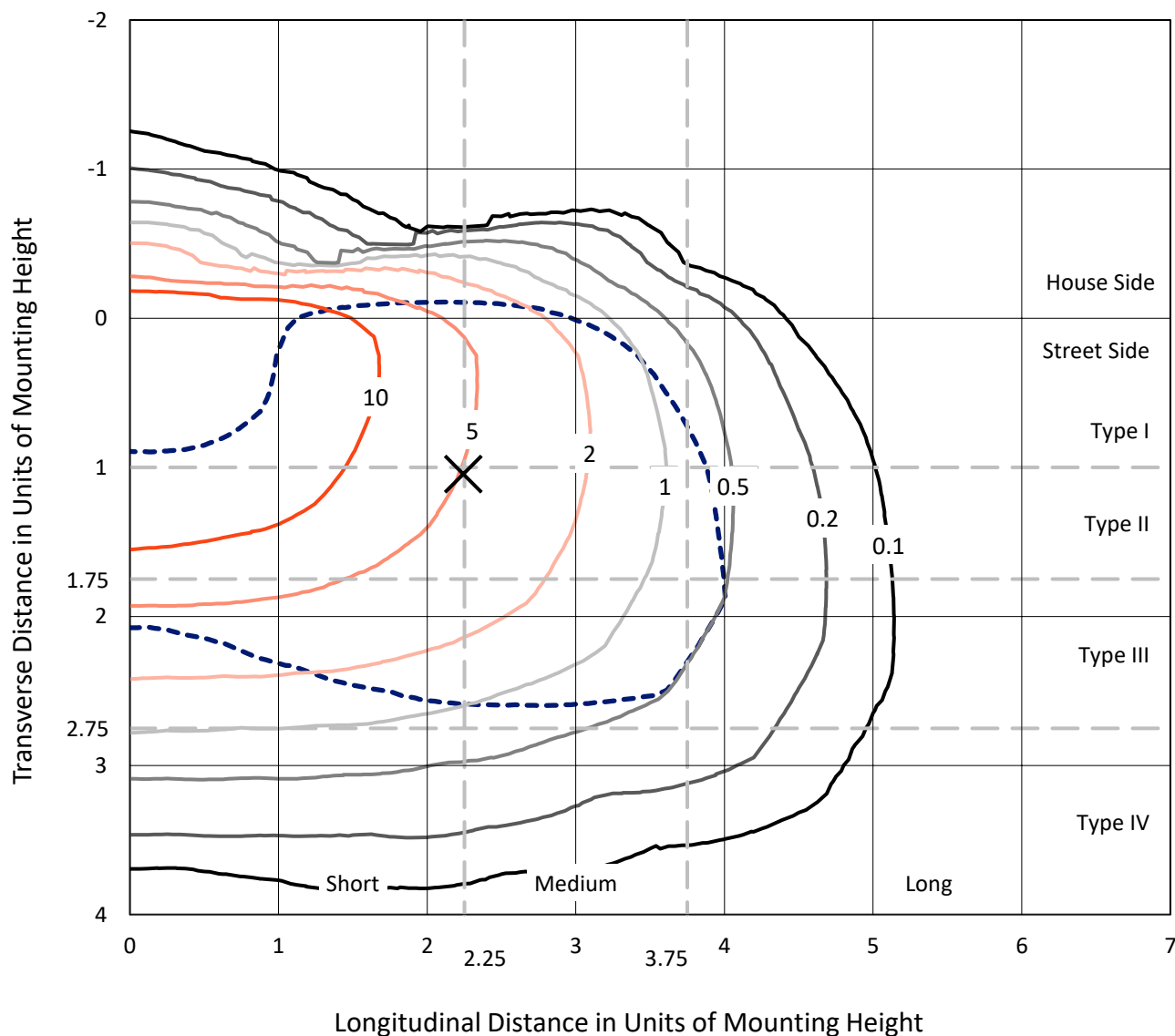
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

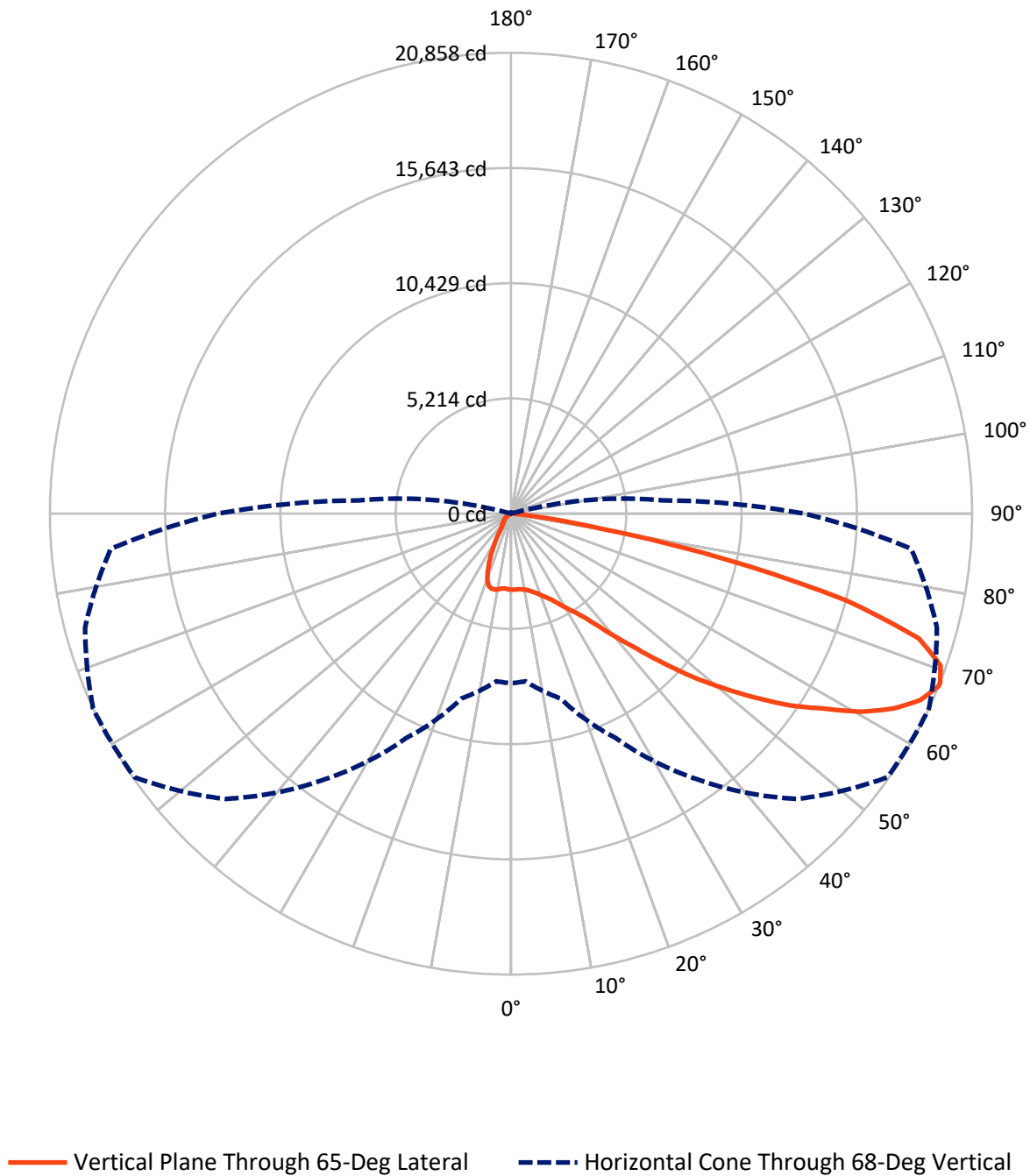


Based on 15 foot mounting height. Maximum calculated value = 19.3 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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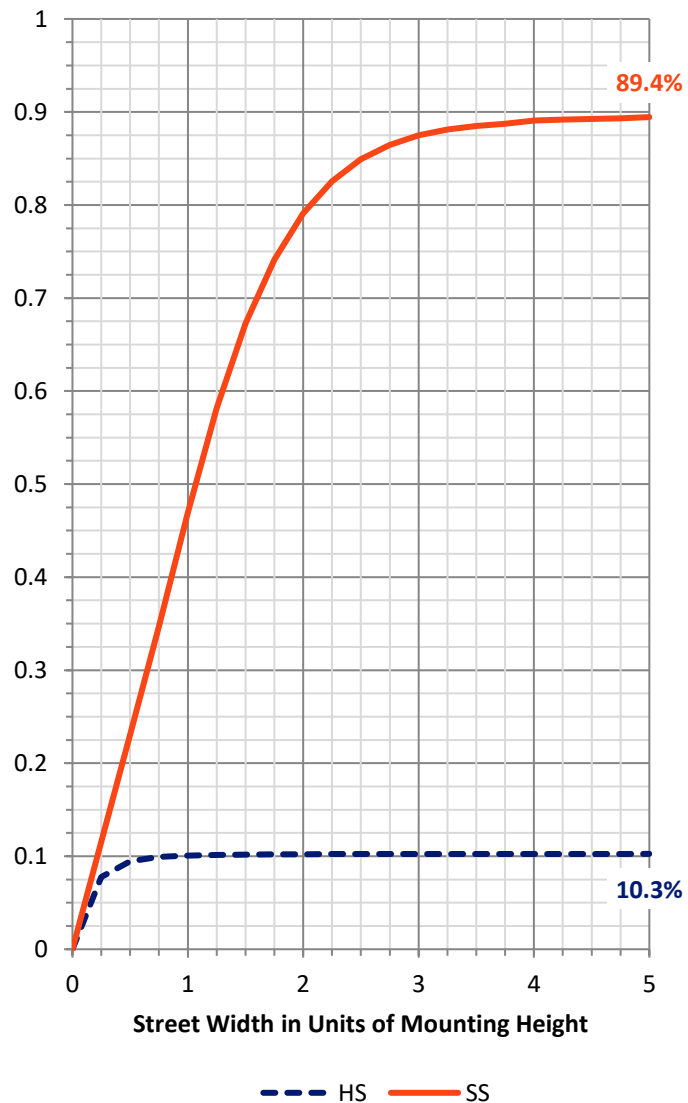
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3088.2	0.0	3088.2
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	26760.5	0.0	26760.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	29848.7	0.0	29848.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.4	1.1
10°-20°	842.6	2.8
20°-30°	1333.8	4.5
30°-40°	2328.6	7.8
40°-50°	4517.9	15.1
50°-60°	7322.0	24.5
60°-70°	8510.9	28.5
70°-80°	4418.7	14.8
80°-90°	253.9	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°	29848.7	100.0
0°-180°	29848.7	100.0

Coefficient of Utilization



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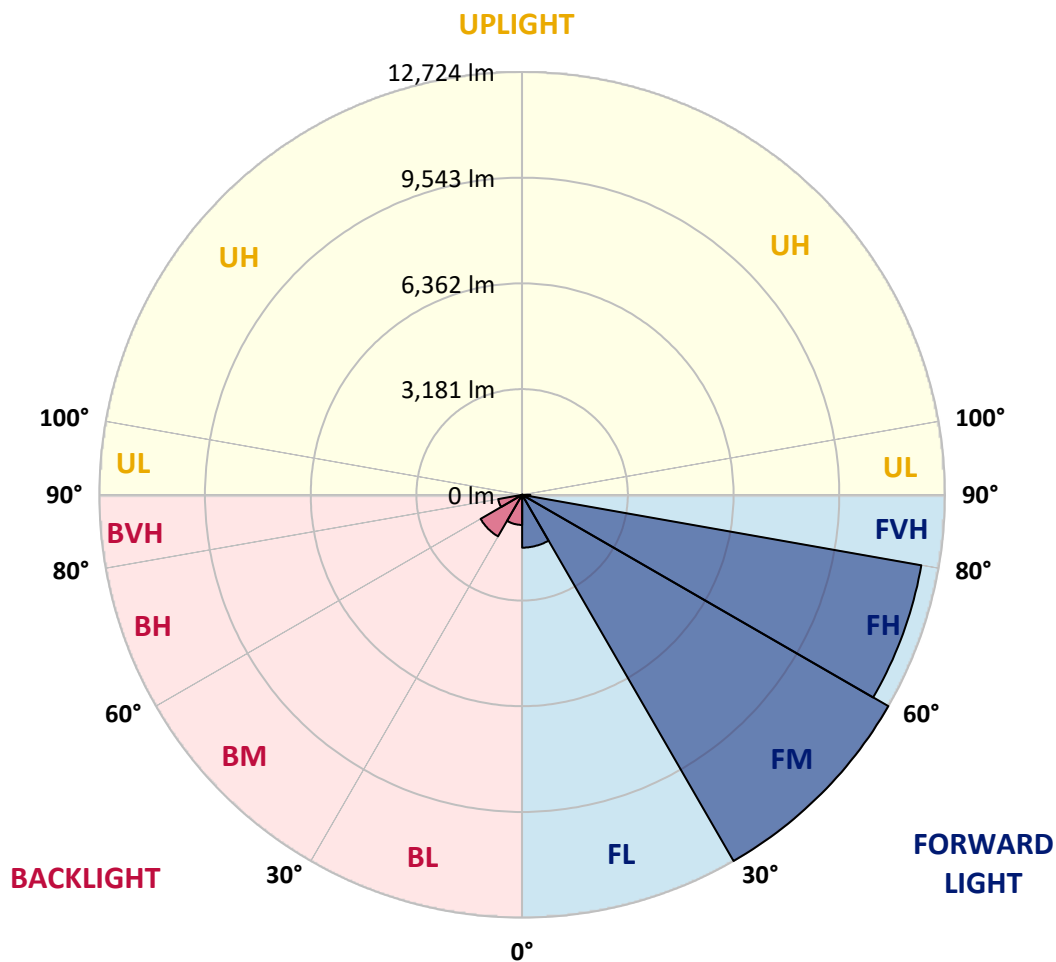
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1590.4	5.3			
FM	(30°-60°)	12723.9	42.6			
FH	(60°-80°)	12197.7	40.9			G5
FVH	(80°-90°)	248.5	0.8			G3/500
BL	(0°-30°)	906.4	3.0	B2/1000		
BM	(30°-60°)	1444.6	4.8	B2/2500		
BH	(60°-80°)	731.8	2.5	B2/1000		G2/1000
BVH	(80°-90°)	5.4	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-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3440.2	3440.2	3440.2	3440.2	3440.2	3440.2	3440.2	3440.2	3440.2	3440.2	3440.2
2.5°	3481.8	3452.1	3454.0	3451.1	3440.2	3448.1	3443.2	3441.2	3433.3	3430.3	3429.3
5°	3422.4	3394.7	3403.5	3411.5	3411.5	3431.3	3435.3	3437.2	3428.3	3423.4	3417.4
7.5°	3329.3	3306.6	3321.4	3349.1	3368.9	3413.5	3437.2	3455.1	3453.0	3454.0	3447.2
10°	3252.2	3230.3	3259.1	3300.7	3341.2	3406.5	3453.0	3497.6	3523.3	3541.1	3539.2
12.5°	3226.4	3207.6	3234.3	3283.8	3336.3	3412.5	3482.8	3563.9	3625.3	3660.9	3656.0
15°	3230.3	3210.6	3237.3	3290.8	3348.2	3437.2	3540.2	3665.8	3756.9	3789.6	3795.5
17.5°	3262.1	3238.3	3259.1	3308.6	3376.8	3490.7	3635.2	3792.5	3907.3	3950.9	3949.9
20°	3304.6	3277.9	3296.7	3341.2	3421.4	3573.8	3755.9	3945.9	4080.5	4124.1	4118.1
22.5°	3367.9	3338.2	3352.1	3395.6	3498.6	3691.6	3898.4	4118.1	4266.6	4309.2	4291.3
25°	3541.1	3494.6	3466.9	3473.9	3597.6	3837.1	4094.4	4326.9	4482.4	4498.2	4470.5
27.5°	3983.5	3949.9	3810.3	3674.8	3718.3	3994.4	4345.8	4618.9	4759.5	4734.7	4697.1
30°	4895.1	4767.4	4547.7	4196.3	3989.5	4162.7	4588.2	4960.4	5088.0	5030.6	4958.4
32.5°	5983.8	5833.3	5510.7	5002.0	4539.8	4448.7	4878.2	5322.6	5471.1	5360.2	5287.0
35°	7056.6	6999.2	6663.6	6045.1	5369.1	4965.3	5269.2	5792.7	5999.6	5899.6	5823.4
37.5°	8276.9	8142.3	7856.2	7140.7	6377.6	5713.6	5804.6	6489.5	6775.5	6631.0	6511.3
40°	9502.1	9354.7	9067.6	8270.0	7536.5	6766.6	6578.5	7357.5	7749.4	7564.2	7364.3
42.5°	10712.5	10695.7	10329.5	9594.2	8760.8	8075.0	7684.0	8363.0	8851.9	8641.1	8307.6
45°	12275.2	12119.9	11657.7	10997.5	10290.0	9555.6	9063.7	9620.9	10207.7	9768.3	9236.9
47.5°	13237.2	13148.1	12777.1	12364.4	11954.6	11265.7	10595.7	11008.4	11507.3	10930.3	10163.3
50°	14056.7	13950.8	13687.5	13545.0	13525.2	13126.4	12245.6	12391.1	12812.7	12142.6	11053.0
52.5°	14565.4	14466.5	14297.2	14499.1	14970.2	15070.2	13856.8	13824.1	14239.8	13352.0	11898.2
55°	14577.3	14350.7	14484.2	15070.2	16158.8	16583.4	15514.5	15314.6	15468.0	14637.6	12689.0
57.5°	14068.6	13988.5	14383.3	15325.5	16928.9	17706.8	17056.5	16632.9	16750.7	15891.6	13375.8
60°	13028.4	13039.3	13907.3	15234.4	17392.0	18601.4	18490.5	18198.6	18036.3	17060.5	13908.3
62.5°	11567.7	11641.9	12754.3	14683.2	17294.0	19066.6	19738.6	19424.8	19031.9	18036.3	14207.1
65°	9936.6	9905.9	11101.5	13517.3	16411.2	19071.5	20576.8	20350.2	19782.1	18549.0	14122.0
67.5°	8072.0	8007.7	9093.4	11652.8	15026.6	18451.9	20797.6	20849.0	19986.0	18329.2	13484.7
68°	7671.2	7613.7	8655.0	11195.5	14671.3	18259.0	20790.6	20857.9	19945.4	18164.0	13271.8
70°	5997.6	5939.2	6789.3	9065.7	12878.0	17095.1	20463.1	20617.4	19418.9	17044.7	12056.6
72.5°	3367.0	3472.8	4236.0	6140.1	9607.0	14659.5	19130.9	19285.3	17505.8	13673.7	9072.6
75°	1083.8	1071.8	1725.0	2957.2	5481.0	9917.8	15670.9	15679.8	13147.2	8281.8	5012.8
77.5°	570.1	575.0	694.8	1203.5	2225.8	4361.6	9595.1	9866.3	6809.1	3143.3	1712.2
80°	355.3	361.3	430.5	693.8	1212.4	1483.6	4194.4	4206.2	1966.5	714.6	408.7
82.5°	239.5	243.4	300.9	450.3	806.6	606.7	1278.7	1264.9	557.2	225.7	136.6
85°	113.8	115.8	193.9	308.8	394.9	251.4	369.2	391.0	276.2	106.9	58.4
87.5°	23.7	26.7	98.0	134.6	118.8	49.5	103.9	83.2	112.8	43.5	26.7
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°	3440.2	3440.2	3440.2	3440.2	3440.2	3440.2	3440.2	3440.2	3440.2	3440.2
2.5°	3433.3	3436.3	3427.3	3411.5	3409.5	3405.6	3412.5	3410.5	3412.5	3389.8
5°	3419.4	3415.4	3398.6	3379.8	3375.9	3368.9	3371.9	3364.0	3365.0	3335.3
7.5°	3449.1	3437.2	3407.5	3368.9	3321.4	3262.1	3217.5	3170.0	3166.1	3130.4
10°	3542.1	3523.3	3469.9	3352.1	3199.7	2992.9	2801.8	2625.7	2579.1	2509.9
12.5°	3655.0	3627.2	3511.4	3268.9	2896.9	2467.3	2090.2	1897.3	1814.1	1774.5
15°	3787.6	3733.2	3503.5	3019.6	2343.6	1774.5	1429.1	1224.2	1175.8	1142.1
17.5°	3943.0	3834.1	3422.4	2543.5	1763.6	1239.1	1007.5	948.1	941.2	940.2
20°	4103.3	3912.3	3195.7	2026.9	1257.9	948.1	902.6	881.8	872.9	869.9
22.5°	4262.7	3955.8	2800.9	1536.0	947.1	875.9	843.2	813.5	799.7	788.8
25°	4436.8	3949.9	2336.7	1110.5	862.0	818.5	772.0	730.4	710.6	696.7
27.5°	4645.6	3852.9	1859.6	877.9	800.7	746.2	686.8	635.4	606.7	599.8
30°	4887.2	3624.3	1402.4	776.9	722.5	665.1	588.9	522.6	493.8	487.9
32.5°	5188.0	3304.6	992.7	691.8	631.4	569.1	483.0	412.7	383.0	370.1
35°	5608.6	2931.5	758.1	611.6	540.3	464.2	375.1	321.7	295.9	291.0
37.5°	6119.3	2544.5	647.2	540.3	459.2	367.1	288.0	250.4	233.6	230.6
40°	6703.3	2152.6	578.0	474.0	383.0	285.0	223.7	193.9	187.1	186.0
42.5°	7275.3	1721.1	524.5	413.7	310.8	220.7	171.2	154.4	152.5	153.4
45°	7749.4	1272.8	472.1	358.3	246.4	170.2	135.6	124.7	127.7	129.7
47.5°	8127.4	888.8	421.6	300.9	193.0	137.6	111.8	104.9	109.9	111.8
50°	8409.5	661.1	373.1	245.5	155.3	114.8	95.0	89.1	97.0	99.0
52.5°	8588.6	546.3	318.7	196.9	129.7	99.0	80.2	75.2	85.1	88.1
55°	8684.6	473.1	270.2	161.3	111.8	85.1	67.3	64.4	75.2	78.2
57.5°	8666.8	410.8	225.7	135.6	100.0	75.2	56.4	54.4	66.3	70.2
60°	8505.5	352.4	185.1	113.8	89.1	66.3	48.5	46.5	59.4	62.3
62.5°	8219.5	291.0	149.5	97.0	80.2	59.4	41.6	39.6	50.5	53.5
65°	7736.5	225.7	116.8	84.1	72.3	52.5	35.6	30.7	40.6	42.6
67.5°	7075.3	173.2	94.0	72.3	65.3	47.5	29.7	23.7	30.7	32.7
68°	6912.1	164.3	90.0	69.3	63.3	46.5	28.7	22.8	29.7	30.7
70°	6088.6	135.6	76.2	60.4	57.4	41.6	24.7	17.9	22.8	23.7
72.5°	4162.7	107.9	62.3	50.5	47.5	35.6	19.8	12.8	16.8	16.8
75°	1370.7	82.1	48.5	36.6	34.6	26.7	13.9	8.9	10.9	10.9
77.5°	300.9	54.4	31.6	22.8	20.7	16.8	8.9	4.0	6.0	6.0
80°	95.0	27.7	17.9	12.8	11.9	8.9	4.9	1.0	1.0	2.0
82.5°	36.6	13.9	12.8	9.9	7.9	6.0	3.0	0.0	0.0	0.0
85°	18.8	9.9	9.9	7.9	6.0	4.0	2.0	0.0	0.0	0.0
87.5°	10.9	8.9	8.9	6.9	4.9	2.0	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

(END OF REPORT)