

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: P622764

Luminaire Tested: **PRV-M-PA6C-8540-U-T2R-HSS**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622764
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-7)
Test Lab: INNOVATION CENTER
Issue Date: 9/29/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-M-PA6C-8540-U-T2R-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 85 CRI, 4000K LIGHT ENGINES AND TYPE II ROADWAY OPTICS WITH HOUSE
SIDE SHIELD, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38303.6 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 457.2
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

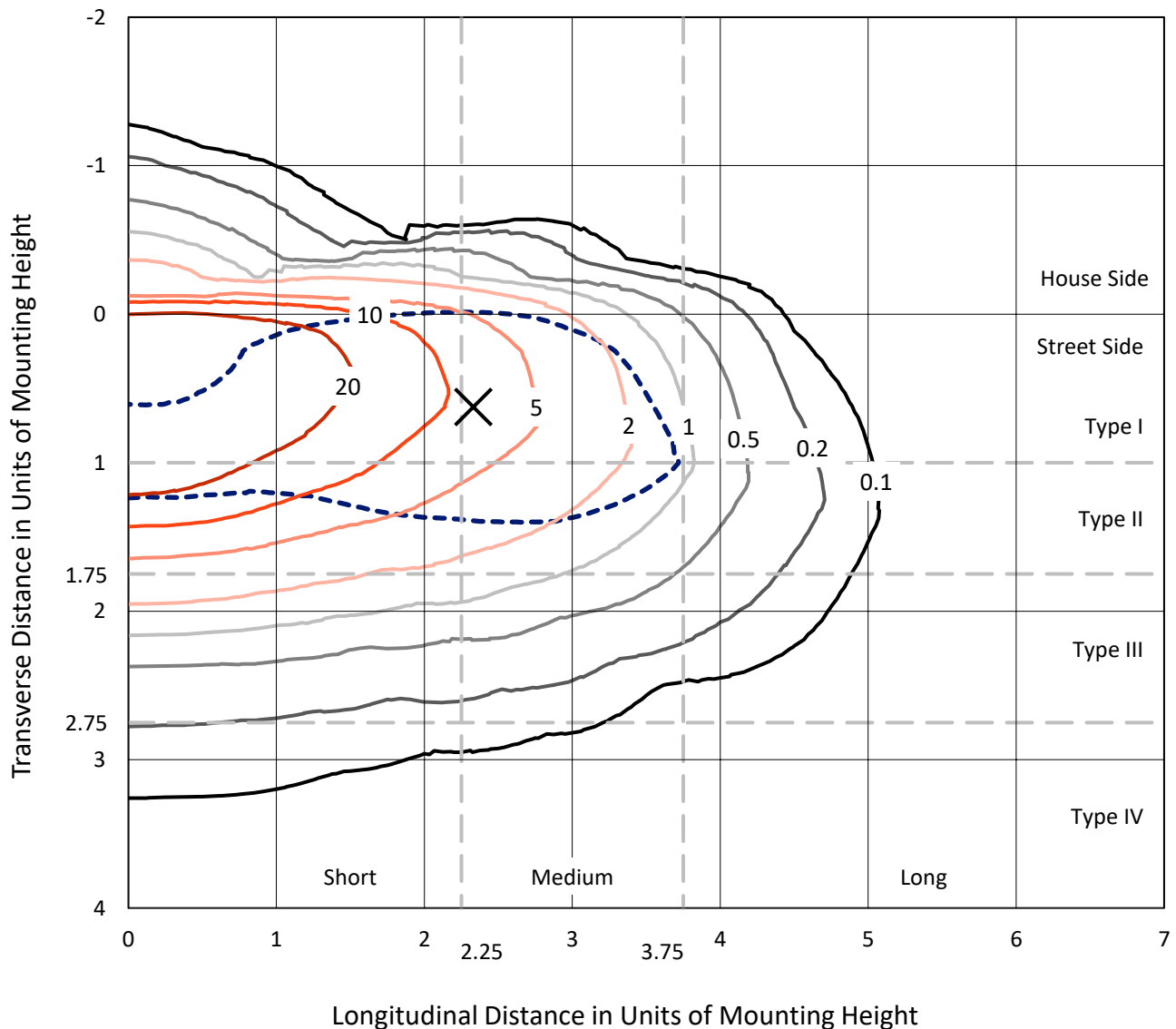


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

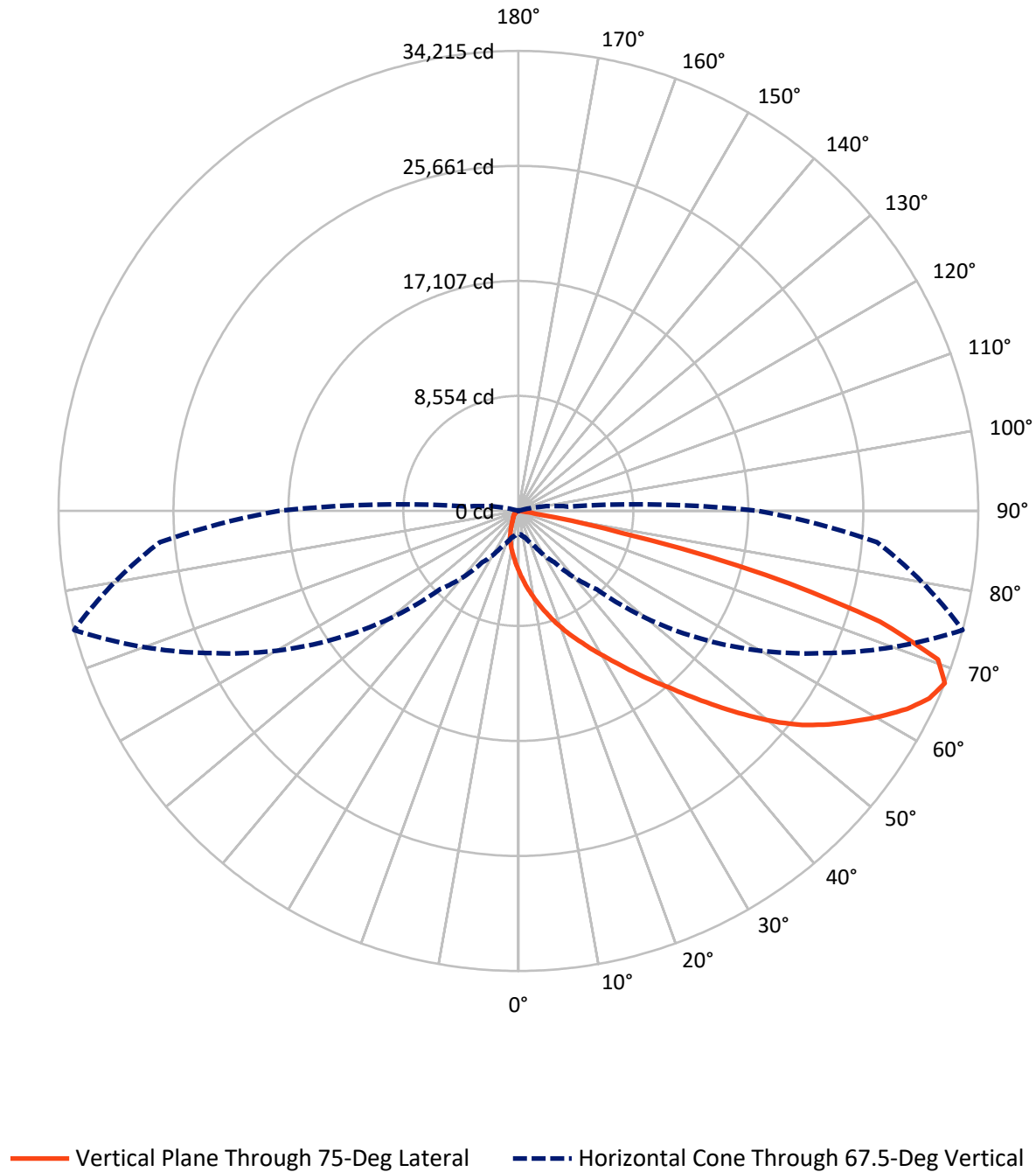


Based on 15 foot mounting height. Maximum calculated value = 47.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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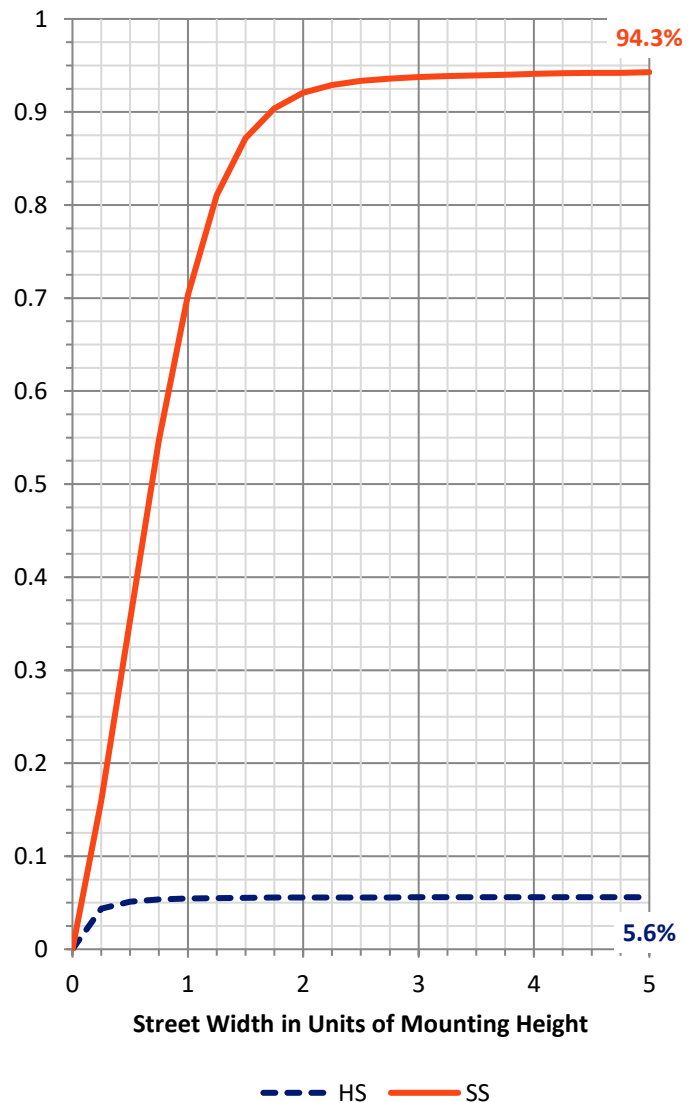
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2154.0	0.0	2154.0
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	36149.6	0.0	36149.6
	% Fixture	94.4	0.0	94.4
Total	Lumens	38303.6	0.0	38303.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.1	1.1
10°-20°	1478.0	3.9
20°-30°	2939.6	7.7
30°-40°	5329.4	13.9
40°-50°	7979.0	20.8
50°-60°	9093.4	23.7
60°-70°	7724.6	20.2
70°-80°	3187.0	8.3
80°-90°	134.5	0.4
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°	38303.6	100.0
0°-180°	38303.6	100.0

Coefficient of Utilization



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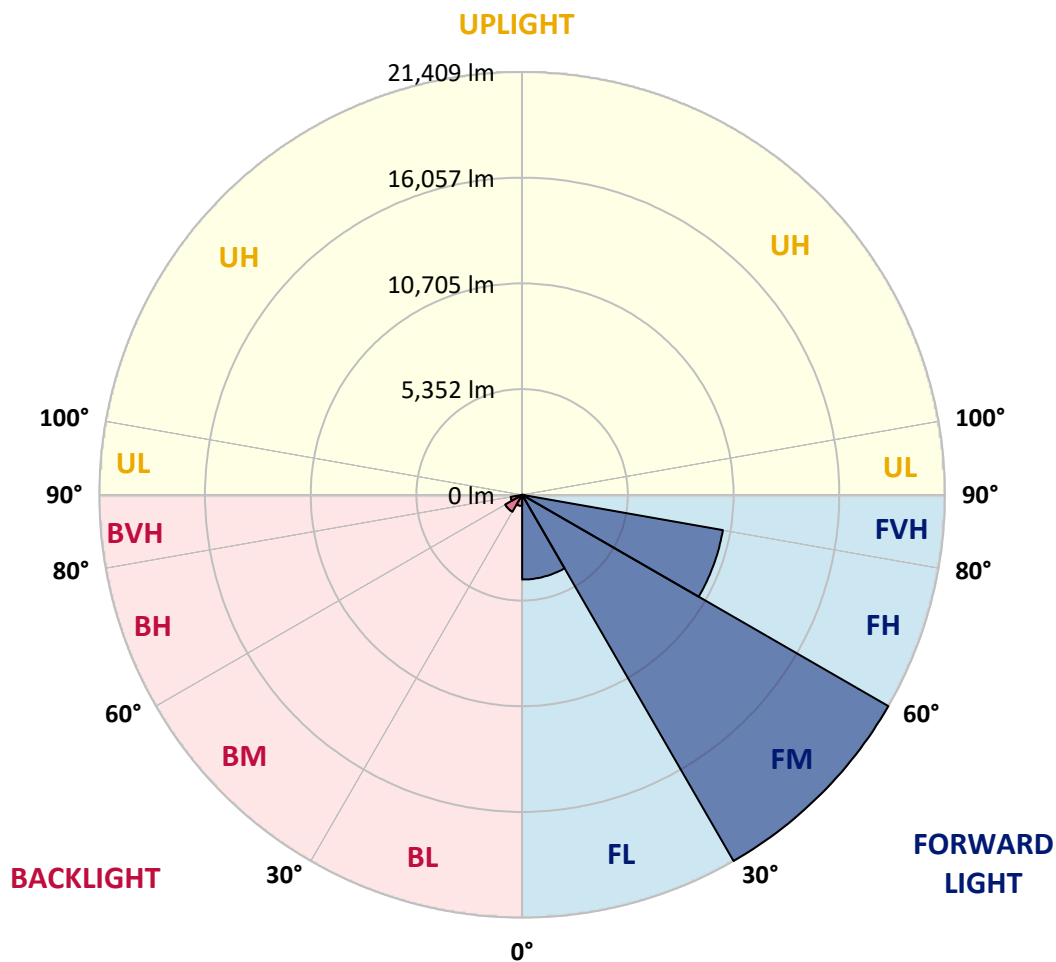
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4290.8	11.2			
FM	(30°-60°)	21409.3	55.9			
FH	(60°-80°)	10321.7	26.9			G4/12000
FVH	(80°-90°)	127.9	0.3			G2/225
BL	(0°-30°)	565.0	1.5	B2/1000		
BM	(30°-60°)	992.4	2.6	B1/1000		
BH	(60°-80°)	590.0	1.5	B2/1000		G2/1000
BVH	(80°-90°)	6.6	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4459.0	4459.0	4459.0	4459.0	4459.0	4459.0	4459.0	4459.0	4459.0	4459.0	4459.0
2.5°	6191.6	6117.0	6172.9	6107.7	5951.6	5757.0	5539.1	5264.1	4962.3	4660.6	4508.0
5°	7474.4	7321.8	7332.2	7249.6	7074.8	6813.7	6493.3	6027.3	5489.0	4885.5	4573.2
7.5°	8151.3	8020.9	8032.6	7973.1	7849.6	7631.7	7314.8	6762.5	6045.9	5165.1	4689.7
10°	8681.5	8599.9	8625.6	8590.6	8500.9	8326.1	8046.5	7489.6	6635.5	5500.7	4851.7
12.5°	9224.4	9137.1	9186.0	9172.1	9117.3	8994.9	8713.0	8206.2	7247.2	5870.0	5034.6
15°	9547.2	9438.8	9540.2	9642.7	9709.2	9666.1	9452.8	8923.9	7906.7	6261.5	5229.2
17.5°	9697.5	9607.8	9748.8	9924.8	10151.9	10274.3	10134.4	9677.7	8601.1	6693.8	5459.9
20°	10043.5	9962.0	10090.2	10275.5	10521.2	10774.1	10811.4	10454.9	9314.2	7159.8	5709.2
22.5°	10848.7	10755.4	10811.4	10844.0	11010.6	11250.7	11413.8	11243.6	10049.4	7652.7	5972.6
25°	12242.2	12108.2	12040.7	11809.9	11793.6	11863.5	11967.2	12038.3	10791.6	8163.0	6232.4
27.5°	14143.7	13967.8	13731.2	13156.8	12867.9	12702.5	12585.9	12834.1	11629.4	8655.9	6505.0
30°	16123.3	15901.9	15609.5	14915.1	14236.9	13798.8	13367.8	13649.7	12516.0	9243.1	6797.5
32.5°	17829.1	17572.7	17188.3	16482.2	15771.4	15094.5	14363.9	14473.4	13512.2	9895.6	7134.2
35°	19183.0	18873.0	18558.4	17858.2	17220.9	16502.0	15559.4	15343.8	14675.1	10636.7	7553.7
37.5°	20144.2	19814.5	19464.9	18856.8	18404.6	17921.1	16977.3	16370.3	15921.8	11503.5	8059.3
40°	20718.6	20370.3	20083.6	19645.5	19319.3	19181.8	18547.9	17575.1	17265.2	12514.8	8692.0
42.5°	20941.2	20603.3	20400.6	20082.5	19949.7	20153.6	20080.1	19086.3	18880.0	13727.8	9450.5
45°	20790.9	20480.9	20359.8	20213.0	20280.6	20838.7	21529.6	20743.1	20695.3	15089.8	10329.0
47.5°	20045.2	19800.5	19883.3	19999.8	20279.4	21226.7	22706.4	22517.6	22606.1	16648.8	11336.9
50°	18411.6	18274.2	18651.7	19248.3	19905.3	21321.0	23616.4	24202.5	24614.9	18296.3	12443.7
52.5°	15158.6	15248.3	16471.7	17752.2	19025.6	21070.5	24117.3	25670.5	26446.5	19793.5	13466.7
55°	11635.1	11589.7	13146.3	15505.7	17508.7	20334.1	24243.2	26557.2	28024.1	21223.1	14415.2
57.5°	9000.7	8963.5	9886.2	12502.0	15185.3	18981.4	24063.8	27104.8	29503.8	22588.7	15375.3
60°	6922.1	6900.0	7596.7	9329.4	12287.6	17024.0	23398.5	27368.1	30999.9	24074.3	16352.9
62.5°	4967.0	4996.2	5592.7	6932.6	9537.9	14277.7	22044.6	27203.8	32438.8	25392.1	17255.8
65°	3083.0	3115.6	3624.7	4829.5	6868.6	11134.2	19763.2	26494.3	33599.3	26367.3	17896.6
67.5°	1736.1	1752.4	2078.6	2928.0	4647.8	8246.9	16547.5	25033.2	34214.5	26777.4	17804.6
70°	1169.8	1175.6	1272.4	1613.8	2675.2	5545.0	12521.8	22334.7	33110.0	25414.2	16091.8
72.5°	933.3	936.8	1004.4	1085.9	1533.3	3436.0	8403.1	18083.1	28146.4	20144.2	11821.6
75°	689.7	704.9	831.9	878.5	1039.3	1877.1	4519.6	11850.7	19000.0	11313.6	6428.1
77.5°	580.3	583.7	624.5	724.7	793.5	1065.0	1519.3	5237.3	7857.7	3342.8	1656.8
80°	392.7	392.7	464.9	532.4	604.7	701.4	600.0	1426.2	1455.3	539.5	307.6
82.5°	275.0	284.3	333.2	449.8	491.7	376.3	307.6	395.0	335.6	178.3	96.7
85°	75.7	93.2	228.4	334.4	262.1	114.2	185.3	156.1	115.3	66.4	40.8
87.5°	11.7	14.0	109.5	100.2	71.1	21.0	64.0	26.8	36.1	25.6	19.8
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°	4459.0	4459.0	4459.0	4459.0	4459.0	4459.0	4459.0	4459.0	4459.0	4459.0
2.5°	4343.7	4040.7	3716.8	3433.7	3192.5	2972.3	2865.1	2717.1	2714.8	2611.1
5°	4245.8	3608.5	3042.2	2563.3	2181.1	1907.3	1738.4	1596.2	1529.8	1503.0
7.5°	4187.6	3253.1	2478.3	1894.5	1493.7	1263.1	1131.4	1077.8	1048.6	1034.7
10°	4173.5	2943.1	1995.9	1402.8	1111.5	1002.0	957.8	931.0	920.5	910.0
12.5°	4165.4	2637.9	1612.6	1110.4	968.3	905.3	865.7	836.6	823.8	814.5
15°	4160.7	2331.5	1296.8	976.4	884.3	822.6	774.9	746.8	729.4	720.0
17.5°	4167.8	2056.5	1080.1	901.9	813.3	737.5	688.6	652.5	638.5	625.7
20°	4180.5	1776.9	965.9	834.2	736.4	653.6	602.4	563.9	544.1	537.1
22.5°	4186.4	1501.9	887.8	760.8	656.0	570.9	517.3	484.7	467.2	460.2
25°	4170.0	1261.9	813.3	682.8	576.8	495.2	442.8	415.9	406.6	399.6
27.5°	4131.6	1058.0	738.7	603.5	504.5	431.1	388.0	363.5	356.5	355.4
30°	4067.5	899.5	664.1	531.3	440.4	376.3	339.0	319.2	315.8	313.4
32.5°	4008.1	792.3	595.4	469.6	386.8	328.5	296.0	283.1	280.8	280.8
35°	3946.3	711.9	527.8	413.7	339.0	288.9	262.1	250.5	252.8	251.7
37.5°	3899.7	642.0	475.4	368.2	297.1	251.7	228.4	220.2	224.9	224.9
40°	3871.8	586.1	421.8	326.3	259.8	219.1	199.3	193.4	201.5	202.7
42.5°	3870.6	532.4	378.7	287.8	226.1	191.1	173.6	167.8	177.1	179.5
45°	3892.8	490.5	336.7	251.7	198.1	165.4	146.8	141.0	151.4	152.6
47.5°	3983.7	455.5	299.4	221.4	173.6	143.3	121.2	115.3	127.0	128.2
50°	4133.9	409.0	258.6	193.4	151.4	121.2	97.9	93.2	106.0	107.2
52.5°	4276.1	364.7	221.4	166.6	131.7	100.2	78.1	75.7	88.6	90.9
55°	4339.0	320.4	190.0	143.3	114.2	82.8	61.8	63.0	75.7	78.1
57.5°	4372.8	283.1	164.3	123.5	99.0	67.6	52.5	53.6	65.2	67.6
60°	4399.6	245.9	144.5	108.4	86.2	57.1	45.4	44.2	53.6	55.9
62.5°	4385.6	210.9	127.0	94.4	73.4	50.1	38.4	34.9	40.8	42.0
65°	4208.5	182.9	109.5	80.4	63.0	42.0	30.3	21.0	24.4	25.6
67.5°	3712.1	160.8	93.2	68.7	51.3	36.1	22.2	14.0	16.3	17.5
70°	2770.7	137.5	75.7	57.1	42.0	29.1	16.3	9.3	11.7	12.8
72.5°	1497.3	113.0	60.6	44.2	31.5	22.2	10.5	5.8	7.0	7.0
75°	618.7	81.6	45.4	30.3	22.2	16.3	8.1	2.3	2.3	2.3
77.5°	229.5	50.1	29.1	23.3	17.5	12.8	5.8	1.2	0.0	0.0
80°	104.8	26.8	22.2	18.6	14.0	10.5	4.7	0.0	0.0	0.0
82.5°	48.9	18.6	17.5	15.1	11.7	8.1	3.5	0.0	0.0	0.0
85°	23.3	15.1	16.3	14.0	11.7	7.0	2.3	0.0	0.0	0.0
87.5°	14.0	16.3	16.3	14.0	11.7	7.0	1.2	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)