

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: P622602

Luminaire Tested: **PRV-M-PA6A-8540-U-T2R-HSS**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622602
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-PA6A-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: 25740.4 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

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



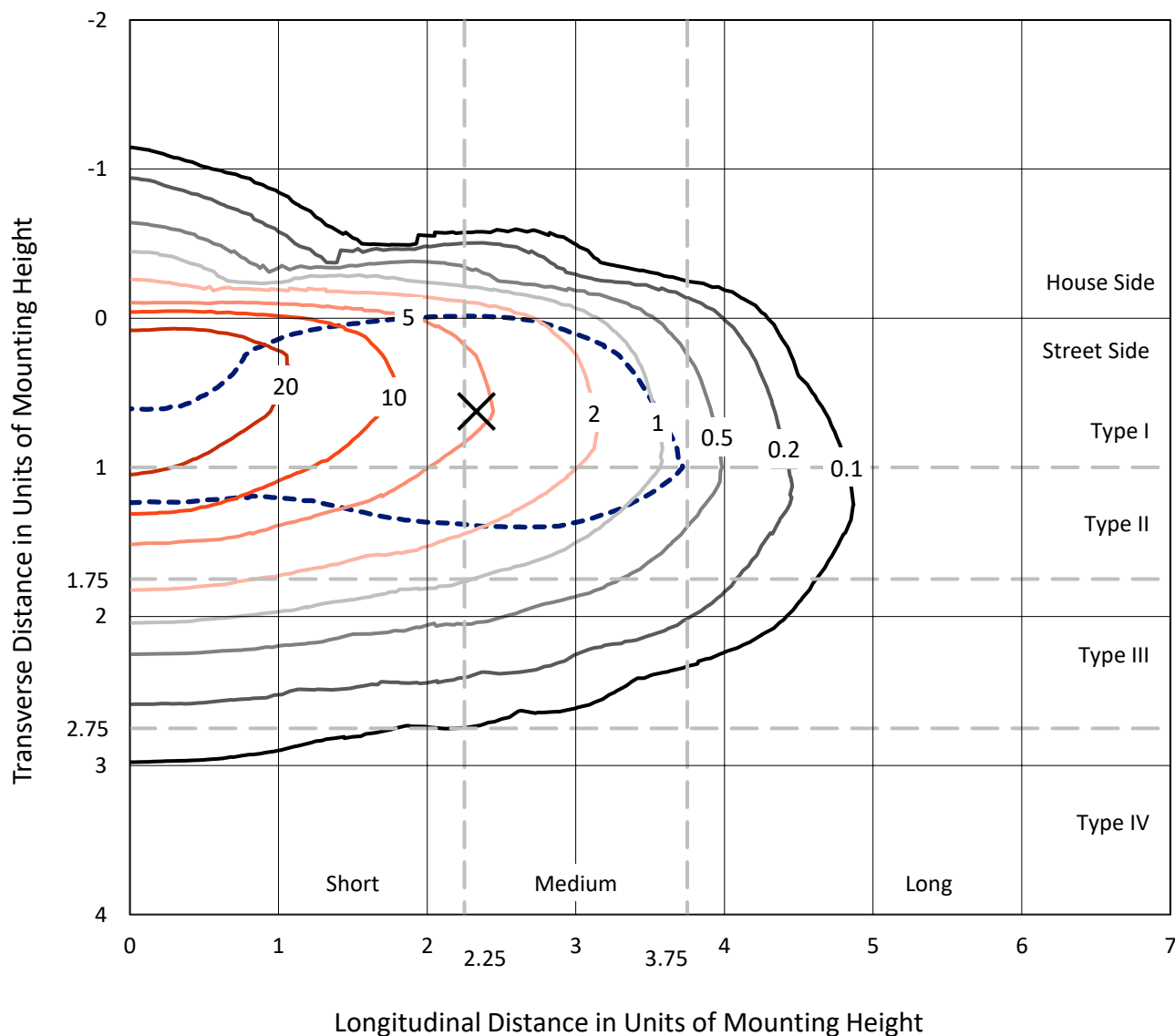
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

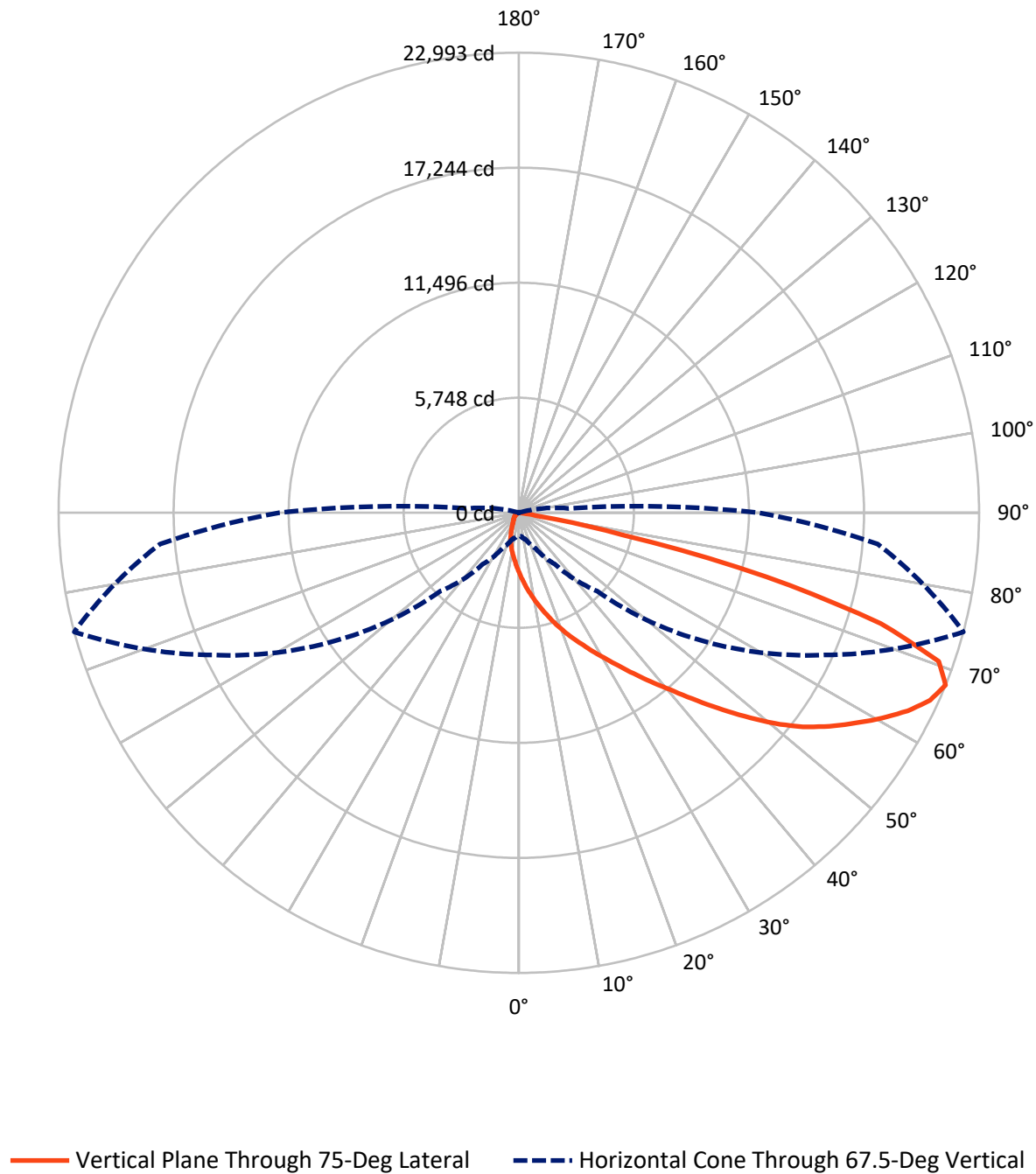


Based on 15 foot mounting height. Maximum calculated value = 31.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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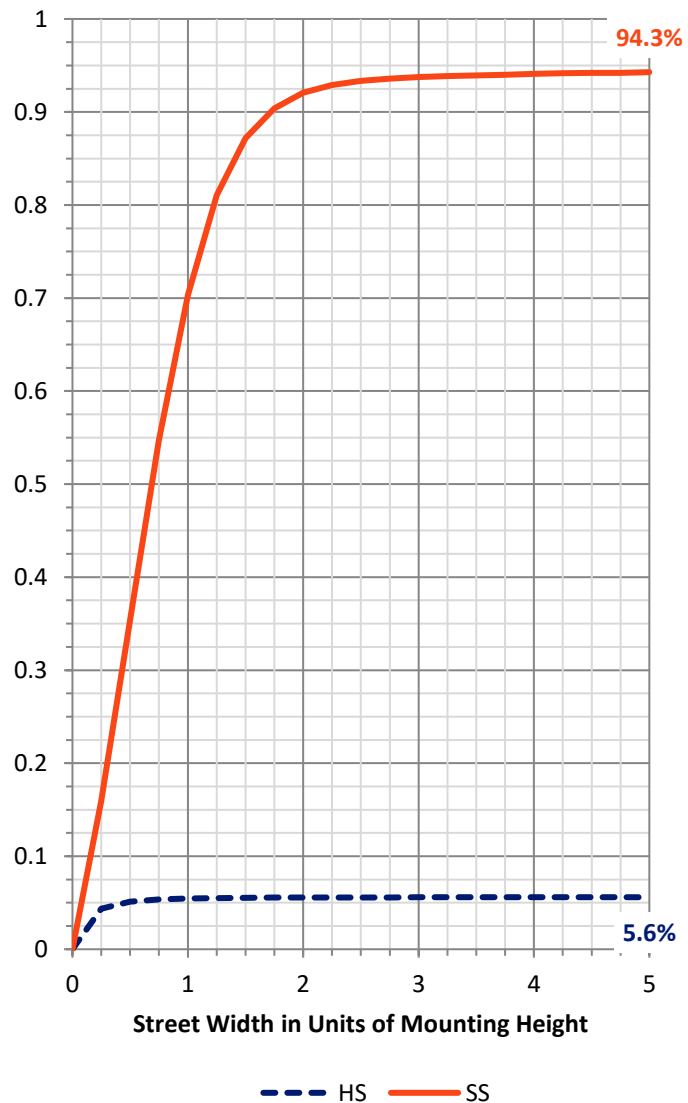
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1447.5	0.0	1447.5
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	24292.9	0.0	24292.9
	% Fixture	94.4	0.0	94.4
Total	Lumens	25740.4	0.0	25740.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.4	1.1
10°-20°	993.2	3.9
20°-30°	1975.4	7.7
30°-40°	3581.4	13.9
40°-50°	5362.0	20.8
50°-60°	6110.8	23.7
60°-70°	5191.0	20.2
70°-80°	2141.7	8.3
80°-90°	90.4	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°	25740.4	100.0
0°-180°	25740.4	100.0

Coefficient of Utilization



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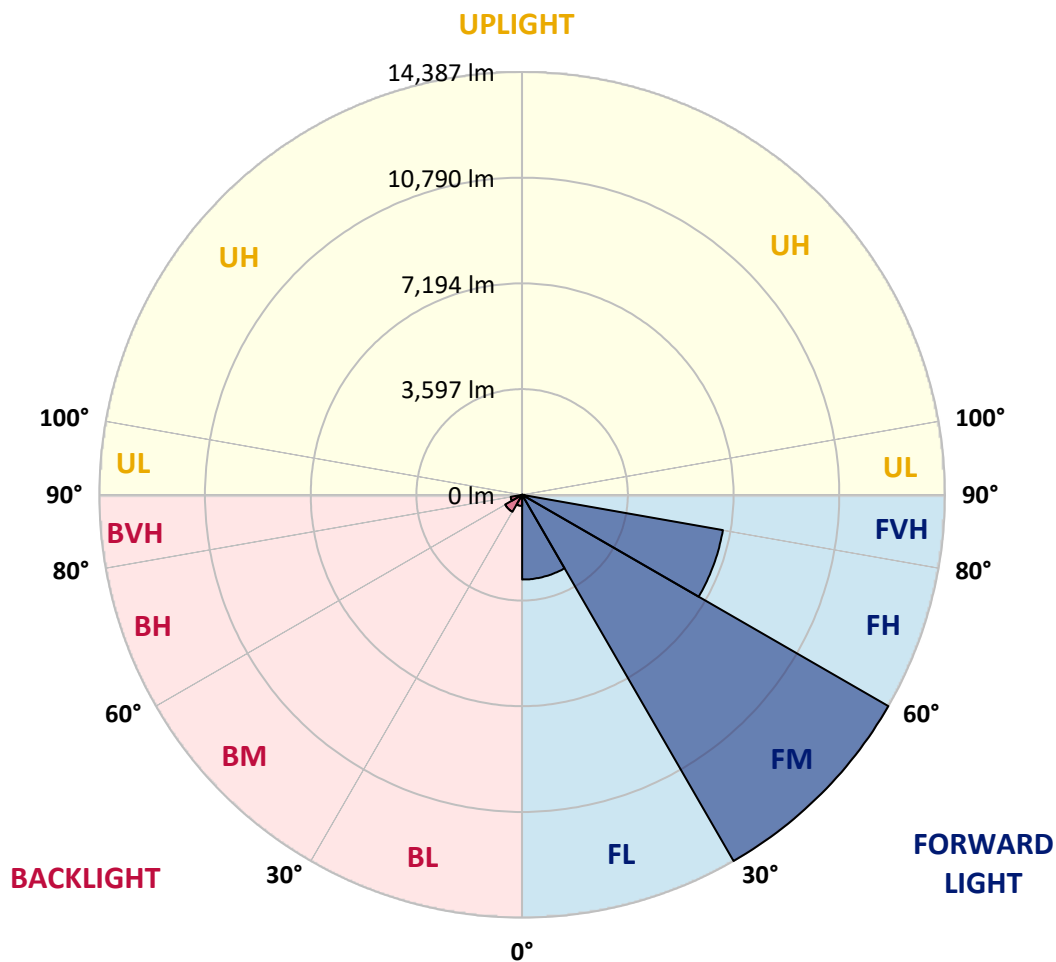
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2883.4	11.2			
FM	(30°-60°)	14387.3	55.9			
FH	(60°-80°)	6936.3	26.9			G3/7500
FVH	(80°-90°)	85.9	0.3			G1/100
BL	(0°-30°)	379.7	1.5	B1/500		
BM	(30°-60°)	666.9	2.6	B1/1000		
BH	(60°-80°)	396.5	1.5	B1/500		G1/500
BVH	(80°-90°)	4.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2996.5	2996.5	2996.5	2996.5	2996.5	2996.5	2996.5	2996.5	2996.5	2996.5	2996.5
2.5°	4160.8	4110.7	4148.3	4104.4	3999.5	3868.7	3722.3	3537.5	3334.7	3131.9	3029.3
5°	5022.9	4920.3	4927.3	4871.7	4754.3	4578.9	4363.6	4050.4	3688.6	3283.0	3073.2
7.5°	5477.8	5390.1	5397.9	5358.0	5275.0	5128.6	4915.6	4544.5	4062.9	3471.0	3151.5
10°	5834.1	5779.2	5796.5	5773.0	5712.7	5595.2	5407.3	5033.0	4459.1	3696.5	3260.3
12.5°	6198.9	6140.2	6173.1	6163.7	6126.9	6044.7	5855.2	5514.6	4870.2	3944.7	3383.3
15°	6415.8	6343.0	6411.1	6480.0	6524.7	6495.7	6352.4	5996.9	5313.4	4207.8	3514.0
17.5°	6516.8	6456.5	6551.3	6669.5	6822.2	6904.4	6810.5	6503.5	5780.0	4498.3	3669.1
20°	6749.4	6694.6	6780.7	6905.2	7070.4	7240.3	7265.4	7025.8	6259.2	4811.5	3836.6
22.5°	7290.4	7227.8	7265.4	7287.3	7399.3	7560.6	7670.2	7555.9	6753.3	5142.7	4013.6
25°	8226.9	8136.9	8091.4	7936.4	7925.4	7972.4	8042.1	8089.9	7252.1	5485.6	4188.2
27.5°	9504.7	9386.4	9227.5	8841.5	8647.3	8536.1	8457.8	8624.6	7815.0	5816.8	4371.4
30°	10835.0	10686.2	10489.7	10023.0	9567.3	9272.9	8983.2	9172.7	8410.8	6211.5	4567.9
32.5°	11981.3	11809.0	11550.7	11076.2	10598.5	10143.6	9652.7	9726.3	9080.3	6649.9	4794.2
35°	12891.2	12682.9	12471.5	12000.9	11572.6	11089.5	10456.0	10311.2	9861.7	7147.9	5076.1
37.5°	13537.1	13315.5	13080.6	12671.9	12368.1	12043.2	11408.9	11001.0	10699.5	7730.5	5415.9
40°	13923.1	13689.0	13496.4	13202.0	12982.8	12890.4	12464.4	11810.6	11602.3	8410.0	5841.1
42.5°	14072.6	13845.6	13709.4	13495.6	13406.4	13543.4	13494.1	12826.2	12687.6	9225.1	6350.8
45°	13971.7	13763.4	13682.0	13583.3	13628.7	14003.8	14468.0	13939.6	13907.5	10140.5	6941.2
47.5°	13470.6	13306.1	13361.7	13440.0	13628.0	14264.5	15258.9	15132.0	15191.5	11188.1	7618.5
50°	12372.8	12280.4	12534.1	12935.0	13376.6	14327.9	15870.4	16264.2	16541.4	12295.3	8362.4
52.5°	10186.7	10247.0	11069.1	11929.6	12785.5	14159.5	16207.1	17250.8	17772.3	13301.4	9049.8
55°	7819.0	7788.4	8834.4	10420.0	11766.0	13664.8	16291.6	17846.7	18832.5	14262.1	9687.1
57.5°	6048.6	6023.5	6643.7	8401.5	10204.7	12755.7	16171.1	18214.7	19826.8	15179.8	10332.3
60°	4651.7	4636.8	5105.1	6269.4	8257.4	11440.3	15724.0	18391.7	20832.2	16178.1	10989.2
62.5°	3337.9	3357.4	3758.3	4658.8	6409.6	9594.7	14814.1	18281.2	21799.2	17063.7	11596.1
65°	2071.8	2093.7	2435.9	3245.5	4615.7	7482.3	13281.1	17804.4	22579.1	17719.1	12026.7
67.5°	1166.7	1177.6	1396.9	1967.7	3123.3	5542.0	11120.0	16822.5	22992.5	17994.7	11964.9
70°	786.1	790.0	855.0	1084.5	1797.8	3726.2	8414.7	15009.1	22250.2	17078.6	10813.9
72.5°	627.2	629.5	674.9	729.8	1030.4	2309.1	5646.9	12152.0	18914.7	13537.1	7944.2
75°	463.5	473.7	559.1	590.4	698.4	1261.4	3037.2	7963.8	12768.2	7602.9	4319.7
77.5°	389.9	392.3	419.7	487.0	533.2	715.7	1021.0	3519.5	5280.5	2246.4	1113.4
80°	263.9	263.9	312.4	357.8	406.4	471.4	403.2	958.4	978.0	362.5	206.7
82.5°	184.8	191.1	223.9	302.2	330.4	252.9	206.7	265.4	225.5	119.8	65.0
85°	50.9	62.6	153.5	224.7	176.2	76.7	124.5	104.9	77.5	44.6	27.4
87.5°	7.8	9.4	73.6	67.3	47.8	14.1	43.1	18.0	24.3	17.2	13.3
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°	2996.5	2996.5	2996.5	2996.5	2996.5	2996.5	2996.5	2996.5	2996.5	2996.5
2.5°	2918.9	2715.4	2497.8	2307.5	2145.4	1997.4	1925.4	1826.0	1824.4	1754.7
5°	2853.2	2425.0	2044.4	1722.6	1465.8	1281.8	1168.2	1072.7	1028.1	1010.1
7.5°	2814.0	2186.1	1665.4	1273.2	1003.8	848.8	760.3	724.3	704.7	695.3
10°	2804.6	1977.9	1341.3	942.7	747.0	673.4	643.6	625.6	618.6	611.5
12.5°	2799.2	1772.7	1083.7	746.2	650.7	608.4	581.8	562.2	553.6	547.3
15°	2796.1	1566.8	871.5	656.2	594.3	552.8	520.7	501.9	490.2	483.9
17.5°	2800.8	1382.0	725.8	606.0	546.5	495.6	462.8	438.5	429.1	420.5
20°	2809.3	1194.1	649.1	560.6	494.9	439.3	404.8	379.0	365.7	361.0
22.5°	2813.2	1009.3	596.6	511.3	440.8	383.7	347.7	325.7	314.0	309.3
25°	2802.4	848.0	546.5	458.8	387.6	332.8	297.5	279.5	273.3	268.6
27.5°	2776.5	711.0	496.4	405.6	339.0	289.7	260.7	244.3	239.6	238.8
30°	2733.5	604.5	446.3	357.0	296.0	252.9	227.9	214.5	212.2	210.6
32.5°	2693.5	532.4	400.1	315.5	260.0	220.8	198.9	190.3	188.7	188.7
35°	2652.0	478.4	354.7	278.0	227.9	194.2	176.2	168.3	169.9	169.1
37.5°	2620.7	431.4	319.5	247.4	199.7	169.1	153.5	148.0	151.1	151.1
40°	2601.9	393.8	283.4	219.2	174.6	147.2	133.9	130.0	135.5	136.2
42.5°	2601.1	357.8	254.5	193.4	151.9	128.4	116.7	112.8	119.0	120.6
45°	2616.0	329.6	226.3	169.1	133.1	111.2	98.7	94.7	101.8	102.6
47.5°	2677.1	306.2	201.2	148.8	116.7	96.3	81.4	77.5	85.3	86.1
50°	2778.1	274.8	173.8	130.0	101.8	81.4	65.8	62.6	71.3	72.0
52.5°	2873.5	245.1	148.8	112.0	88.5	67.3	52.5	50.9	59.5	61.1
55°	2915.8	215.3	127.6	96.3	76.7	55.6	41.5	42.3	50.9	52.5
57.5°	2938.5	190.3	110.4	83.0	66.6	45.4	35.2	36.0	43.8	45.4
60°	2956.5	165.2	97.1	72.8	57.9	38.4	30.5	29.8	36.0	37.6
62.5°	2947.1	141.7	85.3	63.4	49.3	33.7	25.8	23.5	27.4	28.2
65°	2828.1	122.9	73.6	54.0	42.3	28.2	20.4	14.1	16.4	17.2
67.5°	2494.6	108.1	62.6	46.2	34.5	24.3	14.9	9.4	11.0	11.7
70°	1862.0	92.4	50.9	38.4	28.2	19.6	11.0	6.3	7.8	8.6
72.5°	1006.2	76.0	40.7	29.8	21.1	14.9	7.0	3.9	4.7	4.7
75°	415.8	54.8	30.5	20.4	14.9	11.0	5.5	1.6	1.6	1.6
77.5°	154.3	33.7	19.6	15.7	11.7	8.6	3.9	0.8	0.0	0.0
80°	70.5	18.0	14.9	12.5	9.4	7.0	3.1	0.0	0.0	0.0
82.5°	32.9	12.5	11.7	10.2	7.8	5.5	2.3	0.0	0.0	0.0
85°	15.7	10.2	11.0	9.4	7.8	4.7	1.6	0.0	0.0	0.0
87.5°	9.4	11.0	11.0	9.4	7.8	4.7	0.8	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)