

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: McGRAW-EDISON

Report Number: P453631

Luminaire Tested: **GALN-SA4C-830-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453631
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17694 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 213
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: 24 FT

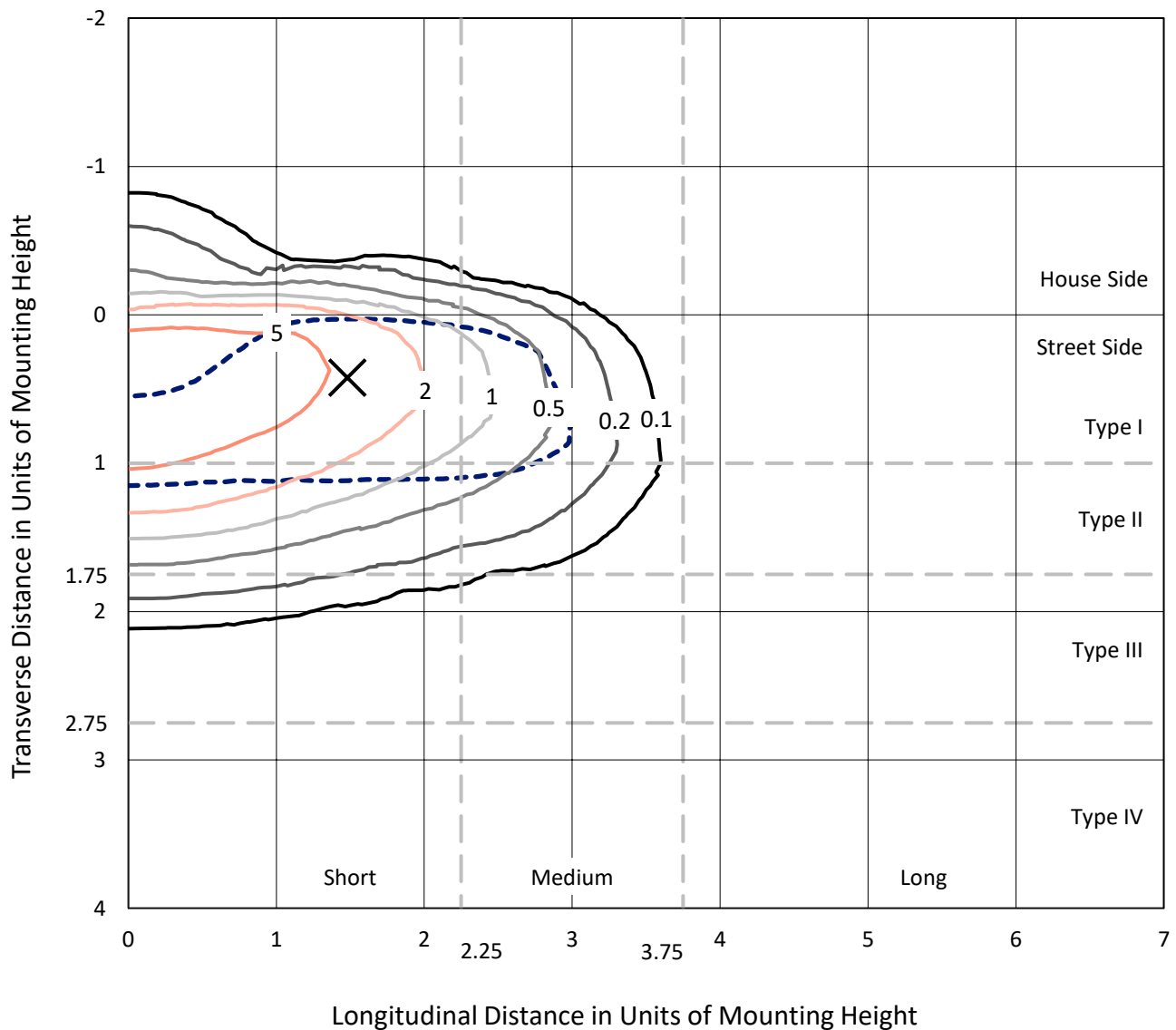


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

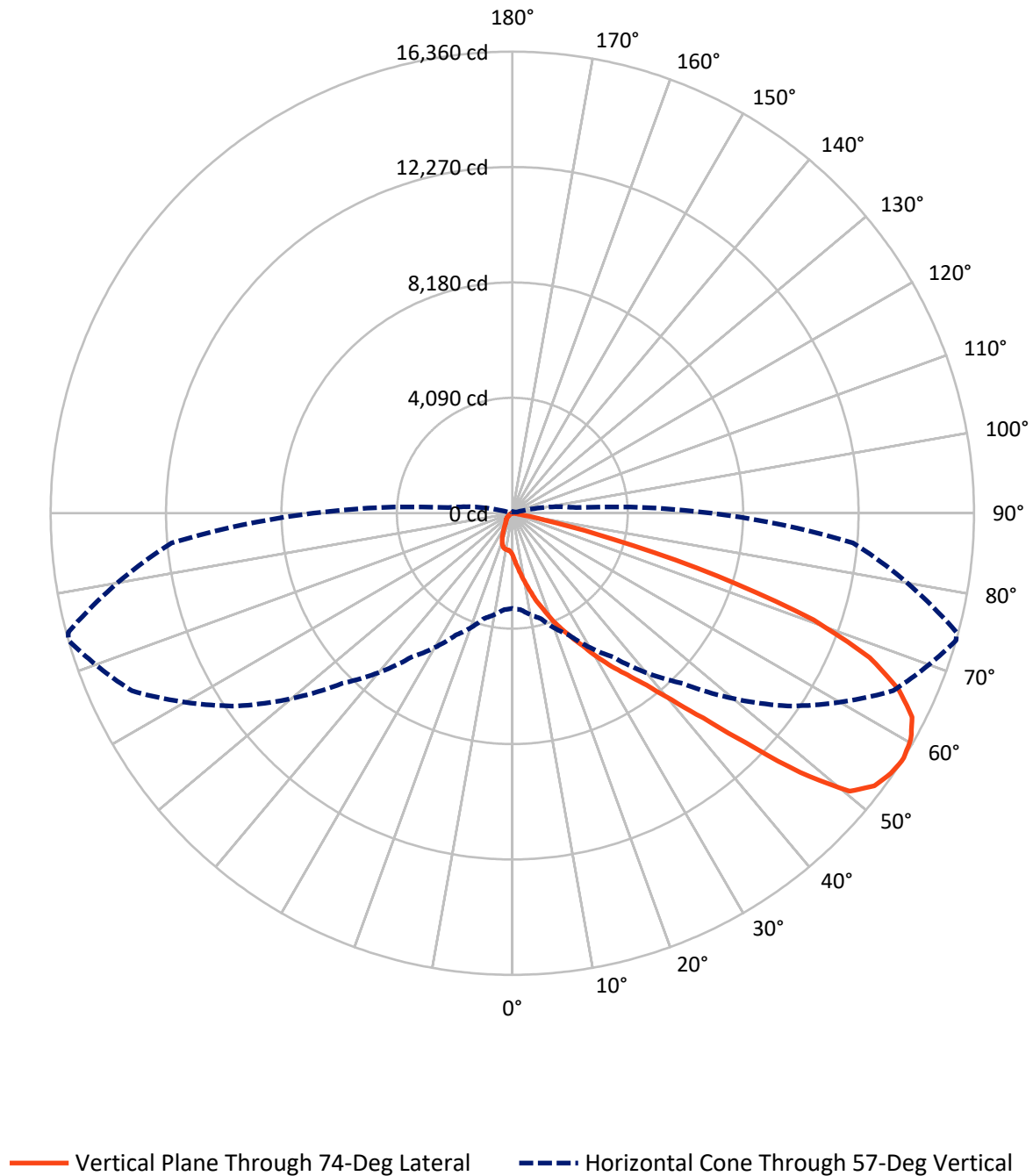


Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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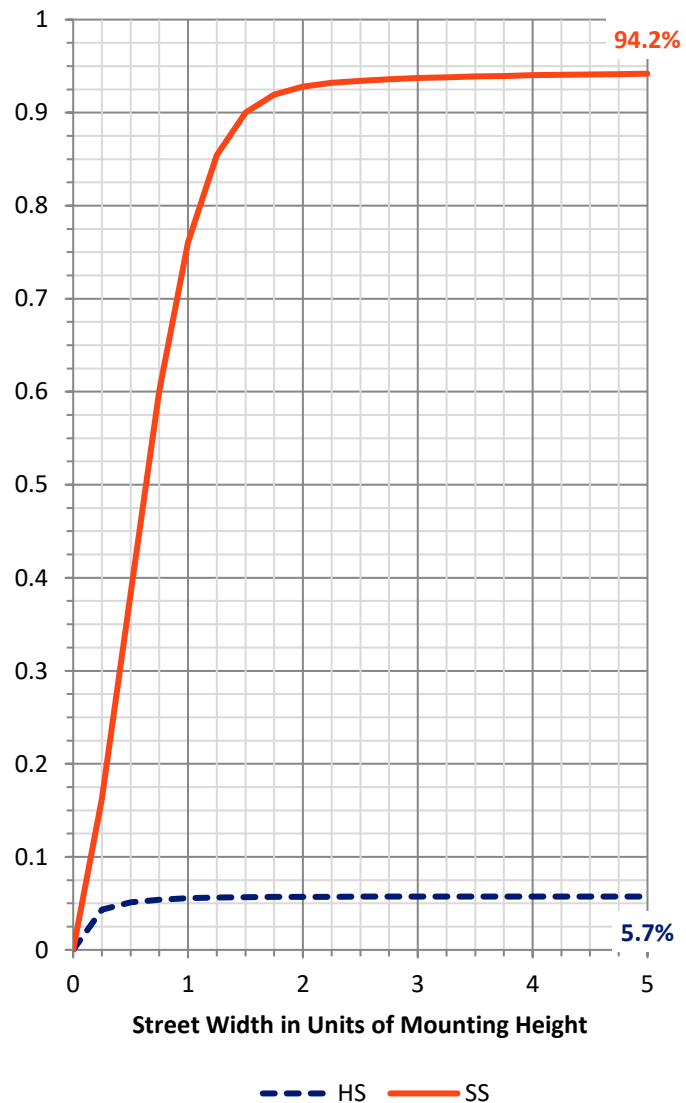
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1020.5	0.0	1020.5
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	16673.5	0.0	16673.5
	% Fixture	94.2	0.0	94.2
Total	Lumens	17694.0	0.0	17694.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.9	1.0
10°-20°	705.0	4.0
20°-30°	1508.5	8.5
30°-40°	2772.7	15.7
40°-50°	4250.6	24.0
50°-60°	4496.5	25.4
60°-70°	2936.3	16.6
70°-80°	802.3	4.5
80°-90°	43.2	0.2
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°	17694.0	100.0
0°-180°	17694.0	100.0

Coefficient of Utilization



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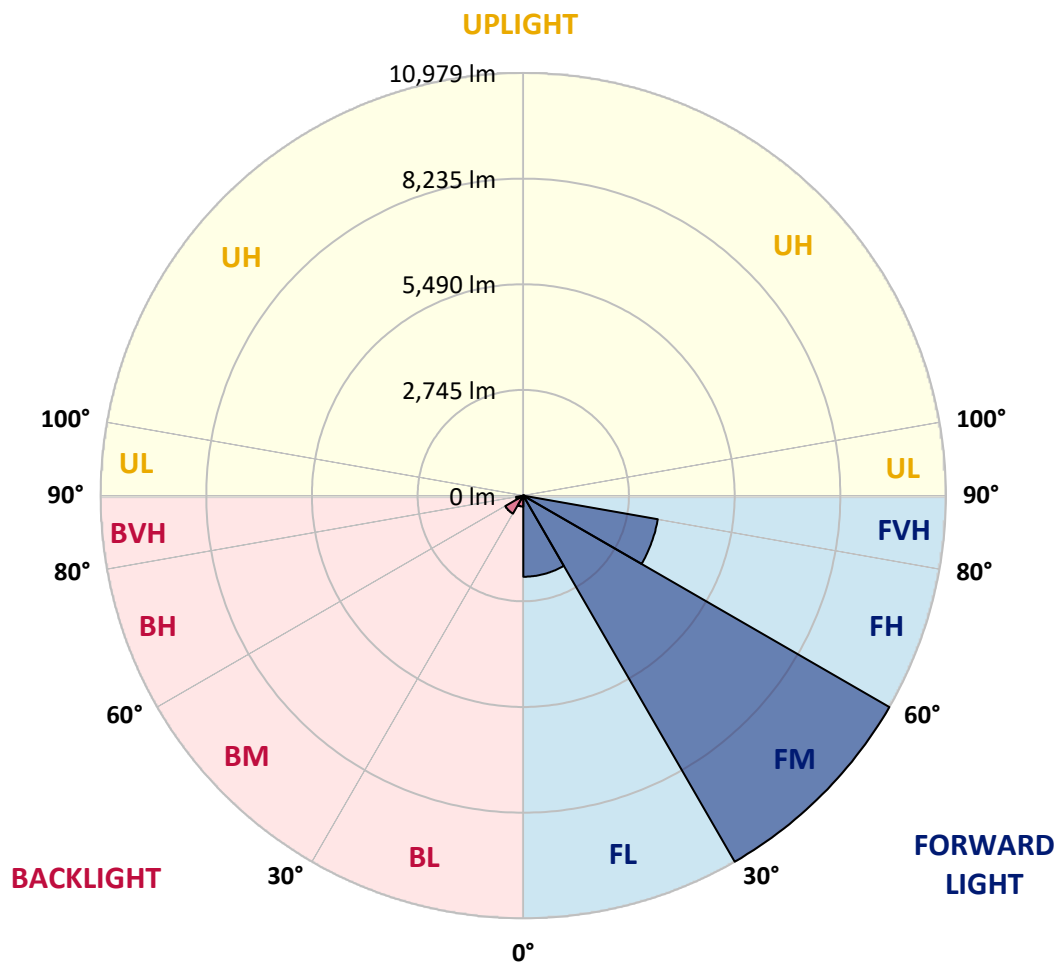
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2107.3	11.9			
FM	(30°-60°)	10979.5	62.1			
FH	(60°-80°)	3547.1	20.0			G2/5000
FVH	(80°-90°)	39.6	0.2			G1/100
BL	(0°-30°)	285.1	1.6	B1/500		
BM	(30°-60°)	540.3	3.1	B1/1000		
BH	(60°-80°)	191.6	1.1	B1/500		G1/500
BVH	(80°-90°)	3.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1481.8	1481.8	1481.8	1481.8	1481.8	1481.8	1481.8	1481.8	1481.8	1481.8	1481.8
2.5°	2168.4	2148.9	2109.8	2096.3	2038.9	1949.7	1871.6	1766.5	1683.4	1674.9	1574.7
5°	2903.8	2859.9	2841.5	2753.6	2615.5	2486.0	2263.7	2095.1	1900.9	1886.2	1684.6
7.5°	3612.4	3551.3	3533.0	3449.9	3288.7	3084.6	2796.3	2489.7	2181.8	2153.8	1832.5
10°	4125.5	4134.0	4101.0	4046.1	3915.4	3707.7	3352.2	2933.2	2494.6	2459.2	1998.6
12.5°	4493.2	4492.0	4498.1	4496.9	4427.2	4269.6	3895.8	3413.3	2839.1	2769.5	2189.2
15°	4732.6	4736.3	4754.6	4818.1	4825.5	4727.7	4416.2	3872.6	3238.6	3151.8	2395.6
17.5°	4974.5	5000.2	5029.5	5089.4	5143.1	5104.0	4884.1	4351.5	3600.2	3535.4	2616.8
20°	5374.0	5409.4	5392.3	5429.0	5457.1	5460.7	5290.9	4793.7	4038.7	3930.0	2869.6
22.5°	6012.9	6011.7	5967.7	5901.7	5846.8	5844.3	5690.4	5248.2	4437.0	4331.9	3123.7
25°	6820.4	6824.1	6738.6	6550.4	6413.6	6246.2	6069.1	5646.4	4863.3	4733.9	3391.3
27.5°	7746.4	7723.2	7593.7	7334.7	7063.5	6777.7	6522.3	6109.4	5315.4	5207.9	3697.9
30°	8578.4	8569.8	8418.3	8101.9	7745.2	7458.1	7088.0	6689.7	5900.5	5768.6	4041.2
32.5°	9352.9	9365.1	9155.0	8827.6	8483.1	8152.0	7761.1	7244.3	6474.7	6287.8	4415.0
35°	9957.6	9969.8	9752.4	9479.9	9125.7	8850.8	8478.2	7835.6	7041.5	6883.9	4845.0
37.5°	10280.1	10296.0	10170.2	9964.9	9743.8	9605.8	9258.8	8596.7	7730.5	7635.3	5353.2
40°	10341.2	10359.5	10304.5	10249.6	10237.3	10336.3	10234.9	9493.4	8685.9	8536.8	6110.6
42.5°	10157.9	10182.4	10206.8	10329.0	10578.2	10941.0	11294.1	10710.1	9916.1	9715.7	7036.6
45°	9676.6	9674.2	9770.7	10087.1	10645.4	11419.9	12400.9	12233.5	11592.1	11353.9	8345.0
47.5°	8853.2	8841.0	9049.9	9500.7	10370.5	11507.8	13303.7	14083.1	13731.2	13511.3	9751.1
50°	7598.6	7658.5	7987.1	8616.2	9687.6	11241.5	13582.2	15296.2	15486.7	15253.4	10887.3
52.5°	6129.0	6126.5	6642.1	7496.0	8676.1	10655.1	13388.0	15516.1	16057.2	15878.9	11446.8
55°	4535.9	4567.7	5104.0	5965.3	7362.8	9585.0	12753.9	15290.0	16274.7	16148.9	11815.7
57°	3374.2	3430.4	3860.4	4771.7	6219.4	8525.8	11909.8	14885.7	16360.2	16291.8	12122.3
57.5°	3149.4	3151.8	3570.9	4399.1	5884.6	8119.0	11667.9	14717.1	16357.8	16319.9	12172.4
60°	1938.7	1999.8	2289.4	2973.5	4307.5	6336.6	10046.8	13748.3	16230.7	16285.7	12386.2
62.5°	1160.6	1186.2	1374.3	1792.1	2776.8	4625.1	8221.6	12508.4	15899.6	16067.0	12371.5
65°	746.4	752.5	838.0	1084.8	1736.0	3126.2	6335.4	10870.2	15043.3	15351.1	11887.8
67.5°	576.6	586.4	620.6	712.2	1006.6	1947.3	4481.0	9122.0	13657.9	14055.0	10715.0
70°	511.9	516.8	529.0	558.3	665.8	1099.5	2787.8	7125.8	11325.8	11438.2	8385.3
72.5°	417.8	431.2	469.1	478.9	527.7	686.6	1551.5	4782.7	7609.6	7637.7	4691.1
75°	323.7	326.2	382.4	410.5	444.7	472.8	692.7	2411.5	3655.1	3459.7	1808.0
77.5°	241.9	252.9	278.5	314.0	362.8	338.4	310.3	908.9	1134.9	1114.1	525.3
80°	155.1	161.3	194.2	235.8	282.2	221.1	174.7	266.3	249.2	256.5	125.8
82.5°	78.2	79.4	124.6	191.8	179.6	111.2	109.9	108.7	92.8	91.6	58.6
85°	8.6	18.3	80.6	109.9	80.6	36.6	51.3	50.1	48.9	50.1	34.2
87.5°	1.2	1.2	13.4	15.9	11.0	12.2	14.7	15.9	19.5	18.3	14.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1481.8	1481.8	1481.8	1481.8	1481.8	1481.8	1481.8	1481.8	1481.8	1481.8	1481.8
2.5°	1525.8	1477.0	1386.6	1299.8	1235.1	1193.5	1139.8	1120.2	1092.1	1088.5	1075.0
5°	1591.8	1499.0	1341.4	1216.8	1116.6	1040.8	974.9	919.9	875.9	866.1	871.0
7.5°	1685.9	1547.8	1327.9	1158.1	1018.8	889.4	784.3	719.5	673.1	656.0	658.5
10°	1792.1	1612.6	1325.5	1095.8	883.2	724.4	609.6	552.2	525.3	515.5	504.5
12.5°	1918.0	1687.1	1319.4	999.3	734.2	577.8	496.0	461.8	436.1	428.8	428.8
15°	2059.7	1766.5	1290.1	879.6	596.2	477.7	422.7	395.8	387.3	379.9	379.9
17.5°	2207.5	1844.7	1229.0	731.8	494.8	409.2	375.0	359.2	346.9	338.4	338.4
20°	2376.1	1921.6	1131.2	601.0	417.8	365.3	338.4	320.1	310.3	303.0	300.5
22.5°	2536.1	1983.9	1006.6	493.5	364.0	328.6	304.2	284.6	274.9	271.2	271.2
25°	2702.3	2021.8	856.4	408.0	332.3	298.1	271.2	255.3	246.8	244.3	243.1
27.5°	2863.5	2043.8	724.4	356.7	303.0	270.0	244.3	232.1	223.6	221.1	222.3
30°	3059.0	2047.5	596.2	320.1	277.3	243.1	219.9	208.9	204.0	201.6	200.3
32.5°	3256.9	2042.6	500.9	298.1	252.9	219.9	200.3	191.8	188.1	184.5	184.5
35°	3479.2	2016.9	426.4	276.1	229.7	200.3	183.2	175.9	171.0	167.4	166.1
37.5°	3755.3	2003.5	383.6	251.7	208.9	182.0	166.1	158.8	155.1	150.3	149.0
40°	4190.2	2063.4	370.2	229.7	188.1	164.9	150.3	141.7	136.8	131.9	130.7
42.5°	4732.6	2168.4	348.2	207.7	169.8	149.0	134.4	124.6	116.1	109.9	107.5
45°	5435.1	2306.5	314.0	184.5	153.9	131.9	118.5	106.3	95.3	90.4	89.2
47.5°	6171.7	2439.6	283.4	166.1	136.8	117.3	102.6	89.2	79.4	75.7	74.5
50°	6623.7	2466.5	263.9	145.4	119.7	101.4	86.7	74.5	68.4	64.7	64.7
52.5°	6830.2	2423.7	237.0	127.1	103.8	89.2	74.5	64.7	61.1	58.6	57.4
55°	6974.3	2357.8	201.6	109.9	89.2	75.7	66.0	58.6	53.8	51.3	50.1
57°	7058.6	2268.6	174.7	96.5	77.0	66.0	58.6	52.5	47.6	42.8	42.8
57.5°	7062.3	2234.4	167.4	95.3	73.3	63.5	57.4	51.3	45.2	40.3	39.1
60°	6953.6	1999.8	134.4	80.6	58.6	53.8	47.6	40.3	31.8	26.9	25.7
62.5°	6604.2	1701.7	111.2	68.4	47.6	41.5	34.2	30.5	22.0	15.9	15.9
65°	6075.2	1380.5	95.3	55.0	39.1	30.5	23.2	22.0	13.4	7.3	6.1
67.5°	5310.5	1075.0	80.6	45.2	33.0	22.0	15.9	14.7	7.3	2.4	0.0
70°	4046.1	733.0	67.2	36.6	24.4	15.9	11.0	8.6	4.9	1.2	0.0
72.5°	2332.1	403.1	56.2	28.1	18.3	12.2	8.6	4.9	4.9	0.0	0.0
75°	833.2	173.5	42.8	20.8	14.7	9.8	6.1	2.4	3.7	1.2	0.0
77.5°	265.1	92.8	28.1	15.9	12.2	7.3	4.9	2.4	2.4	1.2	0.0
80°	78.2	48.9	17.1	13.4	8.6	6.1	3.7	1.2	2.4	1.2	0.0
82.5°	42.8	24.4	13.4	9.8	8.6	4.9	3.7	1.2	1.2	1.2	0.0
85°	22.0	14.7	11.0	9.8	8.6	4.9	3.7	1.2	0.0	1.2	1.2
87.5°	12.2	11.0	11.0	9.8	8.6	6.1	3.7	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	0.0

(END OF REPORT)