

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: P452239

Luminaire Tested: **GALN-SA3A-830-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452239
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-SA3A-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA 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: 8685 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 93
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

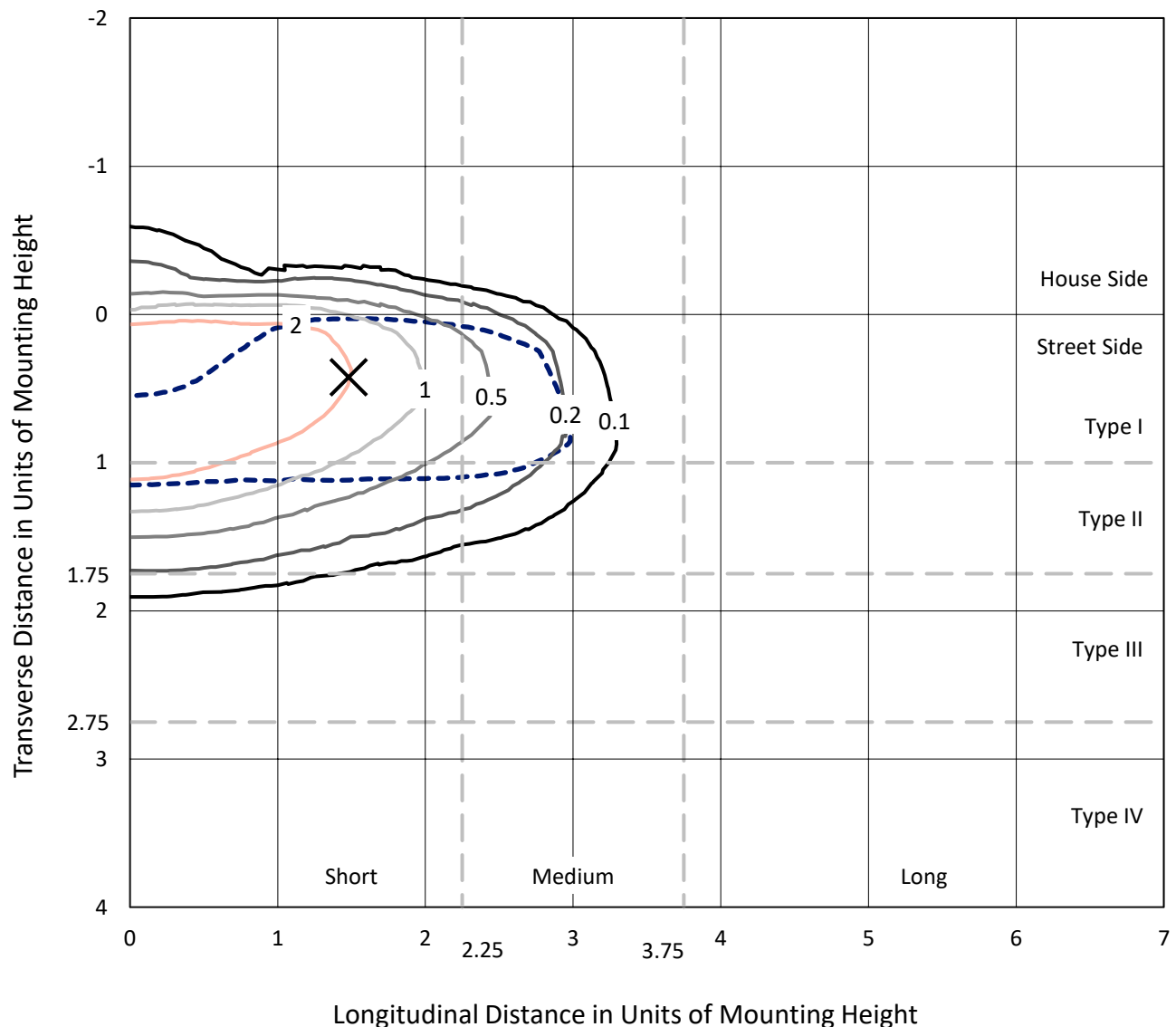


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

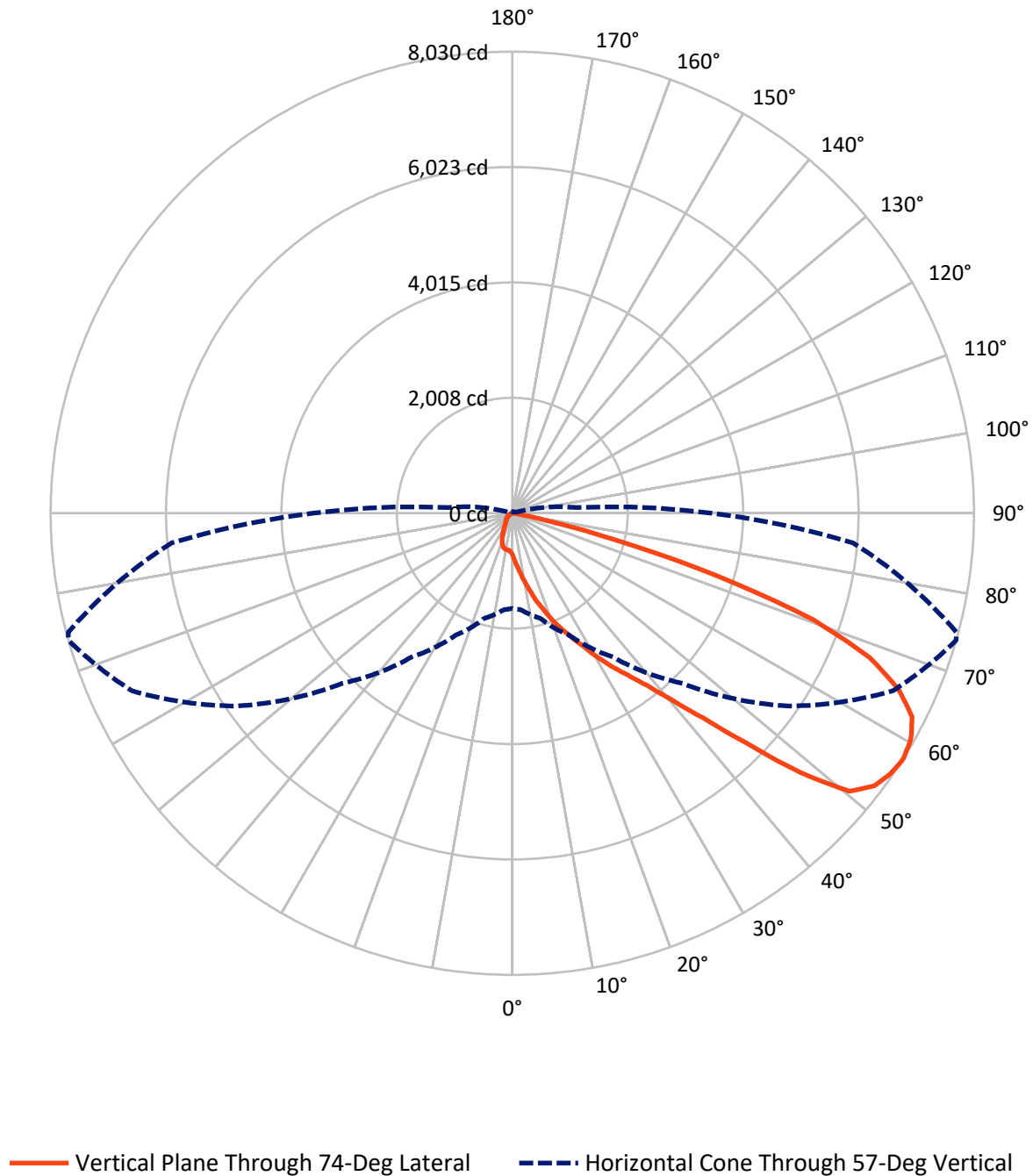


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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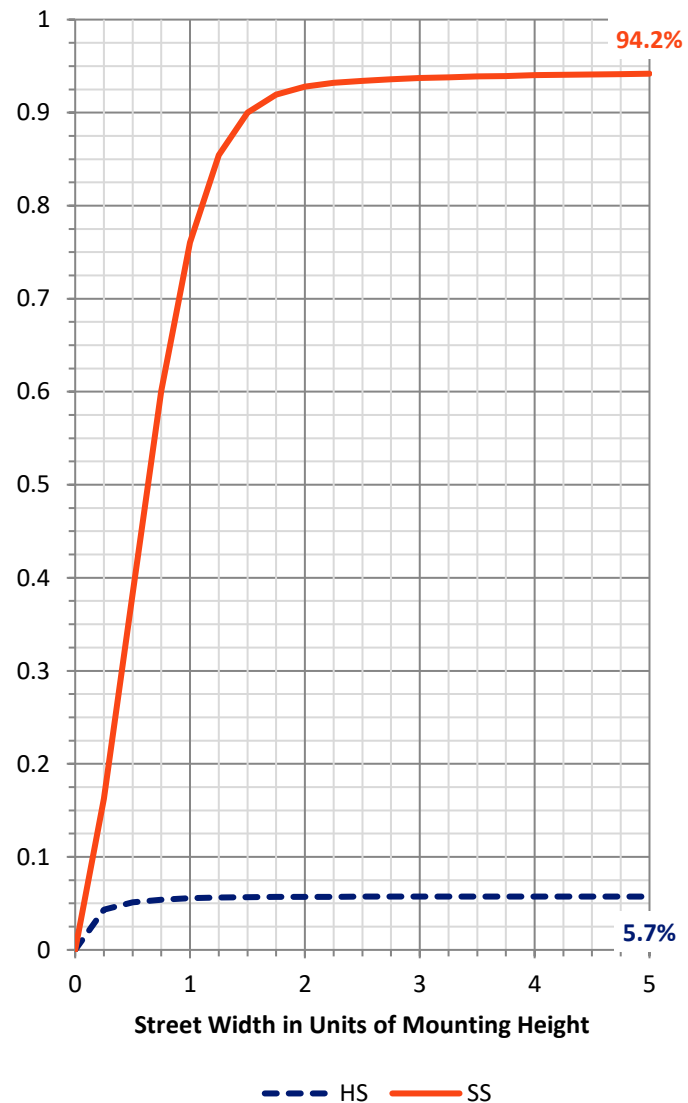
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	500.9	0.0	500.9
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	8184.1	0.0	8184.1
	% Fixture	94.2	0.0	94.2
Total	Lumens	8685.0	0.0	8685.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.8	1.0
10°-20°	346.0	4.0
20°-30°	740.5	8.5
30°-40°	1361.0	15.7
40°-50°	2086.4	24.0
50°-60°	2207.1	25.4
60°-70°	1441.3	16.6
70°-80°	393.8	4.5
80°-90°	21.2	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°	8685.0	100.0
0°-180°	8685.0	100.0

Coefficient of Utilization



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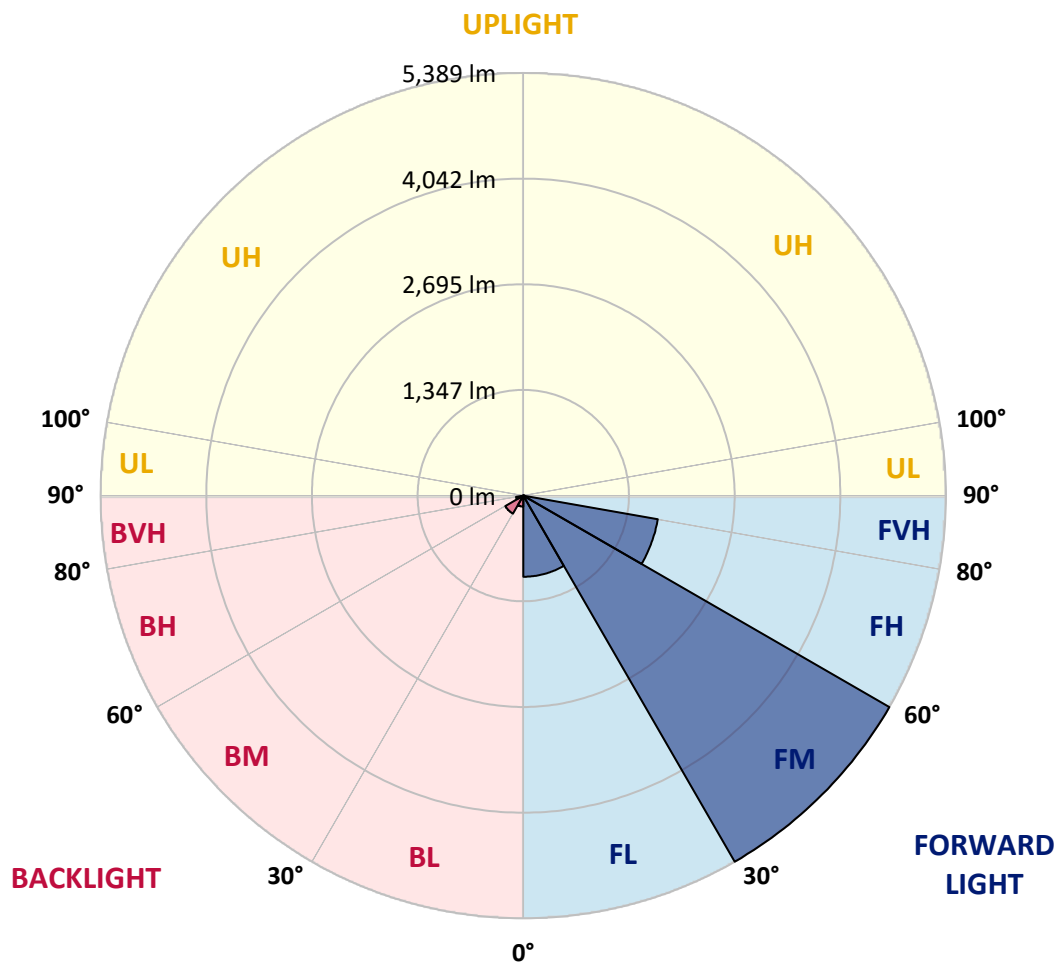
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1034.4	11.9			
FM	(30°-60°)	5389.2	62.1			
FH	(60°-80°)	1741.1	20.0			G1/1800
FVH	(80°-90°)	19.5	0.2			G1/100
BL	(0°-30°)	139.9	1.6	B1/500		
BM	(30°-60°)	265.2	3.1	B1/1000		
BH	(60°-80°)	94.1	1.1	B0/110		G0/110
BVH	(80°-90°)	1.8	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	727.4	727.4	727.4	727.4	727.4	727.4	727.4	727.4	727.4	727.4	727.4
2.5°	1064.4	1054.8	1035.6	1029.0	1000.8	957.0	918.6	867.1	826.3	822.1	772.9
5°	1425.3	1403.7	1394.8	1351.6	1283.8	1220.3	1111.1	1028.4	933.0	925.8	826.9
7.5°	1773.1	1743.1	1734.1	1693.4	1614.2	1514.1	1372.6	1222.1	1070.9	1057.2	899.5
10°	2025.0	2029.2	2013.0	1986.0	1921.8	1819.9	1645.4	1439.7	1224.5	1207.1	981.0
12.5°	2205.5	2204.9	2207.9	2207.3	2173.1	2095.7	1912.2	1675.4	1393.6	1359.4	1074.5
15°	2323.0	2324.8	2333.8	2365.0	2368.6	2320.6	2167.7	1900.8	1589.6	1547.1	1175.9
17.5°	2441.7	2454.3	2468.7	2498.1	2524.5	2505.3	2397.3	2135.9	1767.1	1735.3	1284.4
20°	2637.8	2655.2	2646.8	2664.8	2678.6	2680.4	2597.0	2353.0	1982.4	1929.0	1408.5
22.5°	2951.4	2950.8	2929.2	2896.8	2869.9	2868.7	2793.1	2576.0	2177.9	2126.3	1533.3
25°	3347.8	3349.6	3307.6	3215.2	3148.1	3065.9	2979.0	2771.5	2387.1	2323.6	1664.6
27.5°	3802.3	3790.9	3727.3	3600.2	3467.1	3326.8	3201.5	2998.8	2609.0	2556.2	1815.1
30°	4210.6	4206.4	4132.1	3976.8	3801.7	3660.8	3479.1	3283.6	2896.2	2831.5	1983.6
32.5°	4590.8	4596.8	4493.7	4333.0	4163.9	4001.4	3809.5	3555.8	3178.1	3086.3	2167.1
35°	4887.6	4893.6	4786.9	4653.2	4479.3	4344.4	4161.5	3846.1	3456.3	3378.9	2378.2
37.5°	5045.9	5053.7	4992.0	4891.2	4782.7	4714.9	4544.6	4219.6	3794.5	3747.7	2627.6
40°	5075.9	5084.9	5057.9	5030.9	5024.9	5073.5	5023.7	4659.8	4263.4	4190.3	2999.4
42.5°	4986.0	4998.0	5010.0	5069.9	5192.2	5370.3	5543.6	5257.0	4867.2	4768.9	3453.9
45°	4749.7	4748.5	4795.9	4951.2	5225.2	5605.4	6086.9	6004.7	5689.9	5573.0	4096.1
47.5°	4345.6	4339.6	4442.1	4663.4	5090.3	5648.6	6530.0	6912.6	6739.9	6632.0	4786.3
50°	3729.7	3759.1	3920.4	4229.2	4755.1	5517.8	6666.7	7508.0	7601.6	7487.0	5343.9
52.5°	3008.4	3007.2	3260.2	3679.4	4258.6	5230.0	6571.4	7616.0	7881.6	7794.1	5618.6
55°	2226.4	2242.0	2505.3	2928.0	3614.0	4704.7	6260.2	7505.0	7988.3	7926.6	5799.7
57°	1656.2	1683.8	1894.8	2342.2	3052.7	4184.9	5845.8	7306.6	8030.3	7996.7	5950.2
57.5°	1545.9	1547.1	1752.7	2159.3	2888.4	3985.2	5727.1	7223.8	8029.1	8010.5	5974.8
60°	951.6	981.6	1123.7	1459.5	2114.3	3110.3	4931.4	6748.3	7966.8	7993.7	6079.7
62.5°	569.7	582.2	674.6	879.7	1363.0	2270.2	4035.5	6139.7	7804.3	7886.4	6072.5
65°	366.4	369.4	411.3	532.5	852.1	1534.5	3109.7	5335.6	7383.9	7535.0	5835.0
67.5°	283.0	287.8	304.6	349.6	494.1	955.8	2199.5	4477.5	6703.9	6898.8	5259.4
70°	251.2	253.6	259.6	274.0	326.8	539.7	1368.4	3497.7	5559.2	5614.4	4115.9
72.5°	205.1	211.7	230.3	235.1	259.0	337.0	761.5	2347.6	3735.1	3748.9	2302.6
75°	158.9	160.1	187.7	201.5	218.3	232.1	340.0	1183.7	1794.1	1698.2	887.5
77.5°	118.7	124.1	136.7	154.1	178.1	166.1	152.3	446.1	557.1	546.9	257.8
80°	76.2	79.2	95.3	115.7	138.5	108.5	85.7	130.7	122.3	125.9	61.8
82.5°	38.4	39.0	61.2	94.1	88.1	54.6	54.0	53.4	45.6	45.0	28.8
85°	4.2	9.0	39.6	54.0	39.6	18.0	25.2	24.6	24.0	24.6	16.8
87.5°	0.6	0.6	6.6	7.8	5.4	6.0	7.2	7.8	9.6	9.0	7.2
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°	727.4	727.4	727.4	727.4	727.4	727.4	727.4	727.4	727.4	727.4	727.4
2.5°	748.9	725.0	680.6	638.0	606.2	585.8	559.5	549.9	536.1	534.3	527.7
5°	781.3	735.8	658.4	597.2	548.1	510.9	478.5	451.5	429.9	425.1	427.5
7.5°	827.5	759.7	651.8	568.5	500.1	436.5	385.0	353.2	330.4	322.0	323.2
10°	879.7	791.5	650.6	537.9	433.5	355.6	299.2	271.0	257.8	253.0	247.6
12.5°	941.4	828.1	647.6	490.5	360.4	283.6	243.5	226.7	214.1	210.5	210.5
15°	1011.0	867.1	633.2	431.7	292.6	234.5	207.5	194.3	190.1	186.5	186.5
17.5°	1083.5	905.4	603.2	359.2	242.9	200.9	184.1	176.3	170.3	166.1	166.1
20°	1166.3	943.2	555.3	295.0	205.1	179.3	166.1	157.1	152.3	148.7	147.5
22.5°	1244.8	973.8	494.1	242.3	178.7	161.3	149.3	139.7	134.9	133.1	133.1
25°	1326.4	992.4	420.3	200.3	163.1	146.3	133.1	125.3	121.1	119.9	119.3
27.5°	1405.5	1003.2	355.6	175.1	148.7	132.5	119.9	113.9	109.7	108.5	109.1
30°	1501.5	1005.0	292.6	157.1	136.1	119.3	107.9	102.5	100.1	98.9	98.3
32.5°	1598.6	1002.6	245.9	146.3	124.1	107.9	98.3	94.1	92.3	90.5	90.5
35°	1707.8	990.0	209.3	135.5	112.7	98.3	89.9	86.3	83.9	82.2	81.6
37.5°	1843.3	983.4	188.3	123.5	102.5	89.3	81.6	78.0	76.2	73.8	73.2
40°	2056.7	1012.8	181.7	112.7	92.3	81.0	73.8	69.6	67.2	64.8	64.2
42.5°	2323.0	1064.4	170.9	101.9	83.3	73.2	66.0	61.2	57.0	54.0	52.8
45°	2667.8	1132.1	154.1	90.5	75.6	64.8	58.2	52.2	46.8	44.4	43.8
47.5°	3029.4	1197.5	139.1	81.6	67.2	57.6	50.4	43.8	39.0	37.2	36.6
50°	3251.2	1210.7	129.5	71.4	58.8	49.8	42.6	36.6	33.6	31.8	31.8
52.5°	3352.6	1189.7	116.3	62.4	51.0	43.8	36.6	31.8	30.0	28.8	28.2
55°	3423.3	1157.3	98.9	54.0	43.8	37.2	32.4	28.8	26.4	25.2	24.6
57°	3464.7	1113.5	85.7	47.4	37.8	32.4	28.8	25.8	23.4	21.0	21.0
57.5°	3466.5	1096.7	82.2	46.8	36.0	31.2	28.2	25.2	22.2	19.8	19.2
60°	3413.1	981.6	66.0	39.6	28.8	26.4	23.4	19.8	15.6	13.2	12.6
62.5°	3241.6	835.3	54.6	33.6	23.4	20.4	16.8	15.0	10.8	7.8	7.8
65°	2982.0	677.6	46.8	27.0	19.2	15.0	11.4	10.8	6.6	3.6	3.0
67.5°	2606.6	527.7	39.6	22.2	16.2	10.8	7.8	7.2	3.6	1.2	0.0
70°	1986.0	359.8	33.0	18.0	12.0	7.8	5.4	4.2	2.4	0.6	0.0
72.5°	1144.7	197.9	27.6	13.8	9.0	6.0	4.2	2.4	2.4	0.0	0.0
75°	409.0	85.1	21.0	10.2	7.2	4.8	3.0	1.2	1.8	0.6	0.0
77.5°	130.1	45.6	13.8	7.8	6.0	3.6	2.4	1.2	1.2	0.6	0.0
80°	38.4	24.0	8.4	6.6	4.2	3.0	1.8	0.6	1.2	0.6	0.0
82.5°	21.0	12.0	6.6	4.8	4.2	2.4	1.8	0.6	0.6	0.6	0.0
85°	10.8	7.2	5.4	4.8	4.2	2.4	1.8	0.6	0.0	0.6	0.6
87.5°	6.0	5.4	5.4	4.8	4.2	3.0	1.8	0.6	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)