

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: P455487

Luminaire Tested: **GALN-SA6C-830-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455487
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-SA6C-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 26524 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 321
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

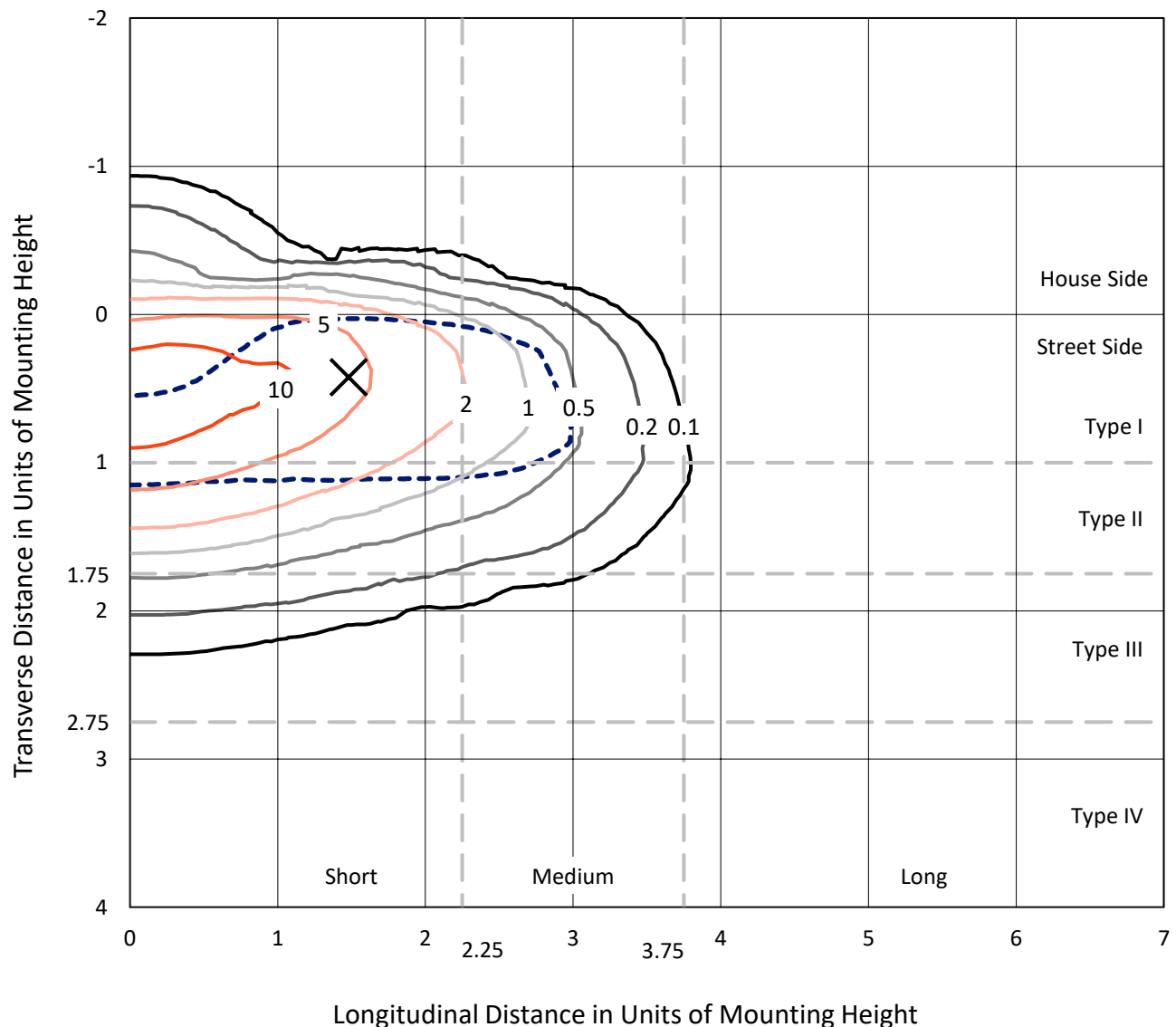


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

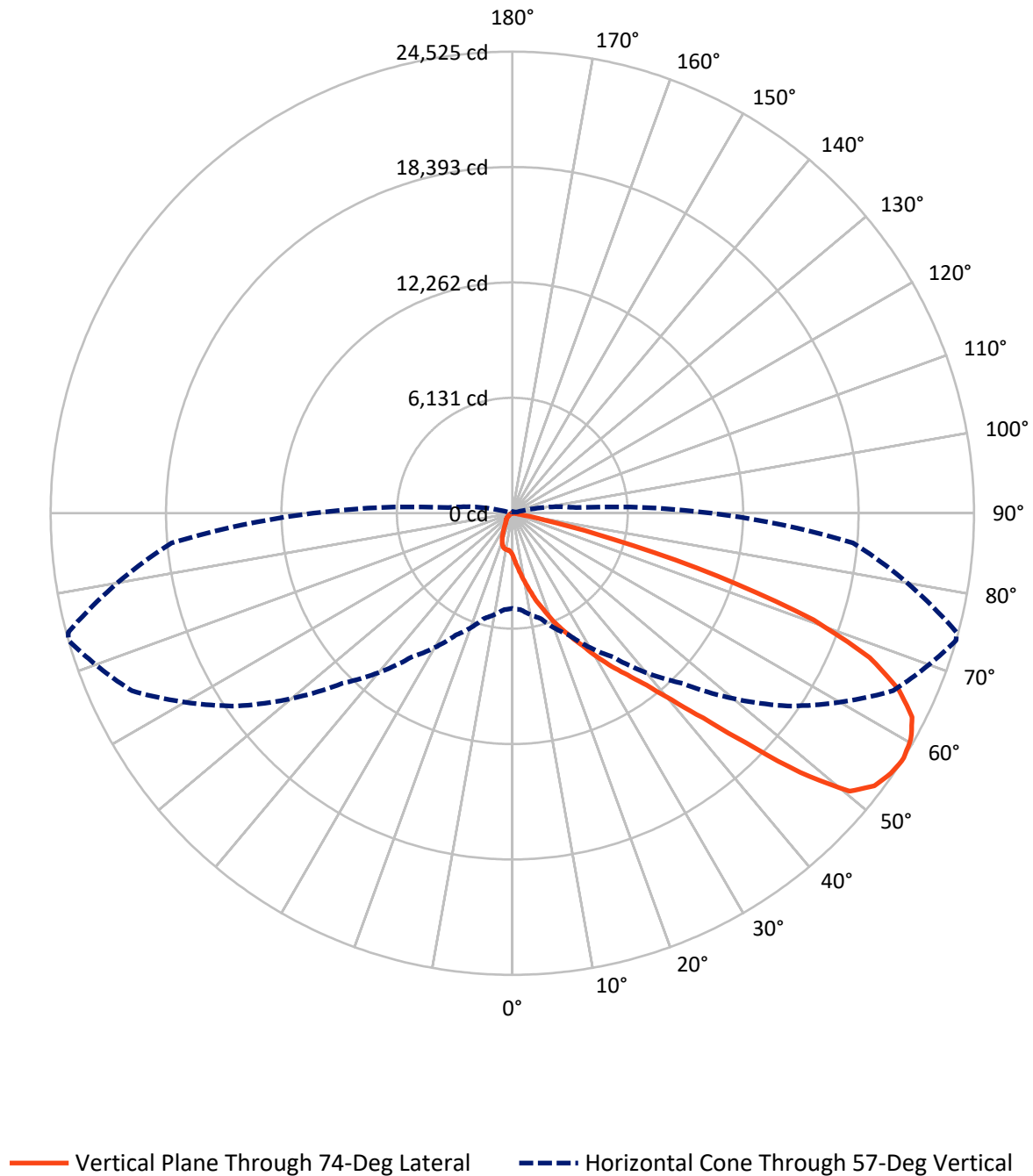


Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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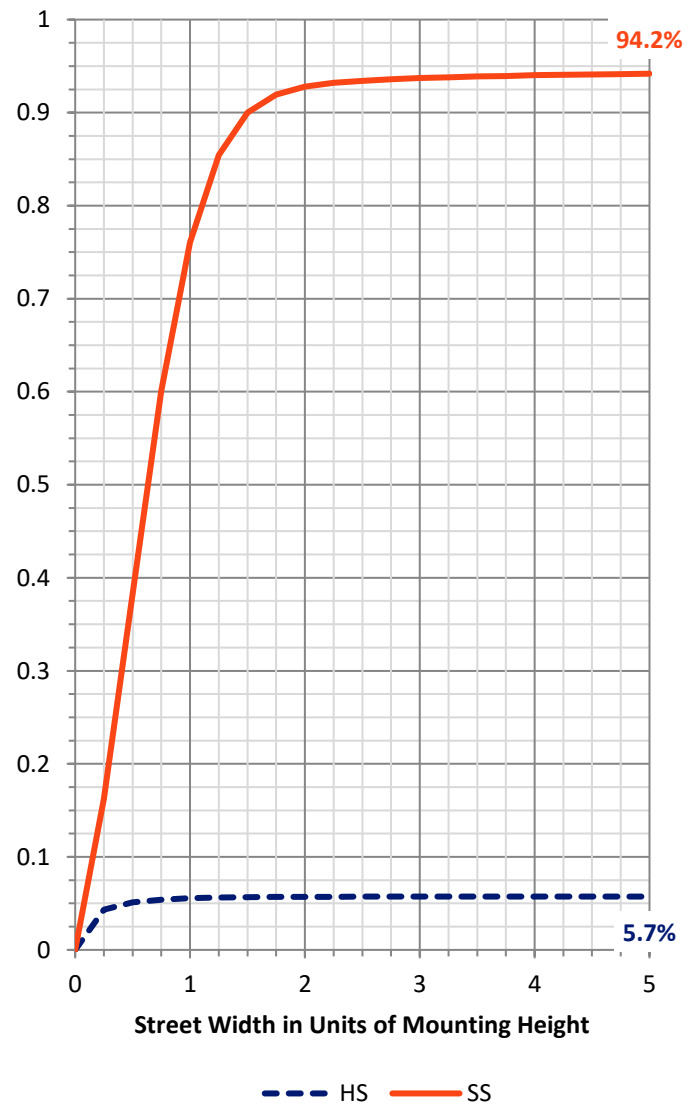
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1529.8	0.0	1529.8
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	24994.2	0.0	24994.2
	% Fixture	94.2	0.0	94.2
Total	Lumens	26524.0	0.0	26524.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.1	1.0
10°-20°	1056.8	4.0
20°-30°	2261.4	8.5
30°-40°	4156.3	15.7
40°-50°	6371.7	24.0
50°-60°	6740.5	25.4
60°-70°	4401.7	16.6
70°-80°	1202.7	4.5
80°-90°	64.7	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°	26524.0	100.0
0°-180°	26524.0	100.0

Coefficient of Utilization



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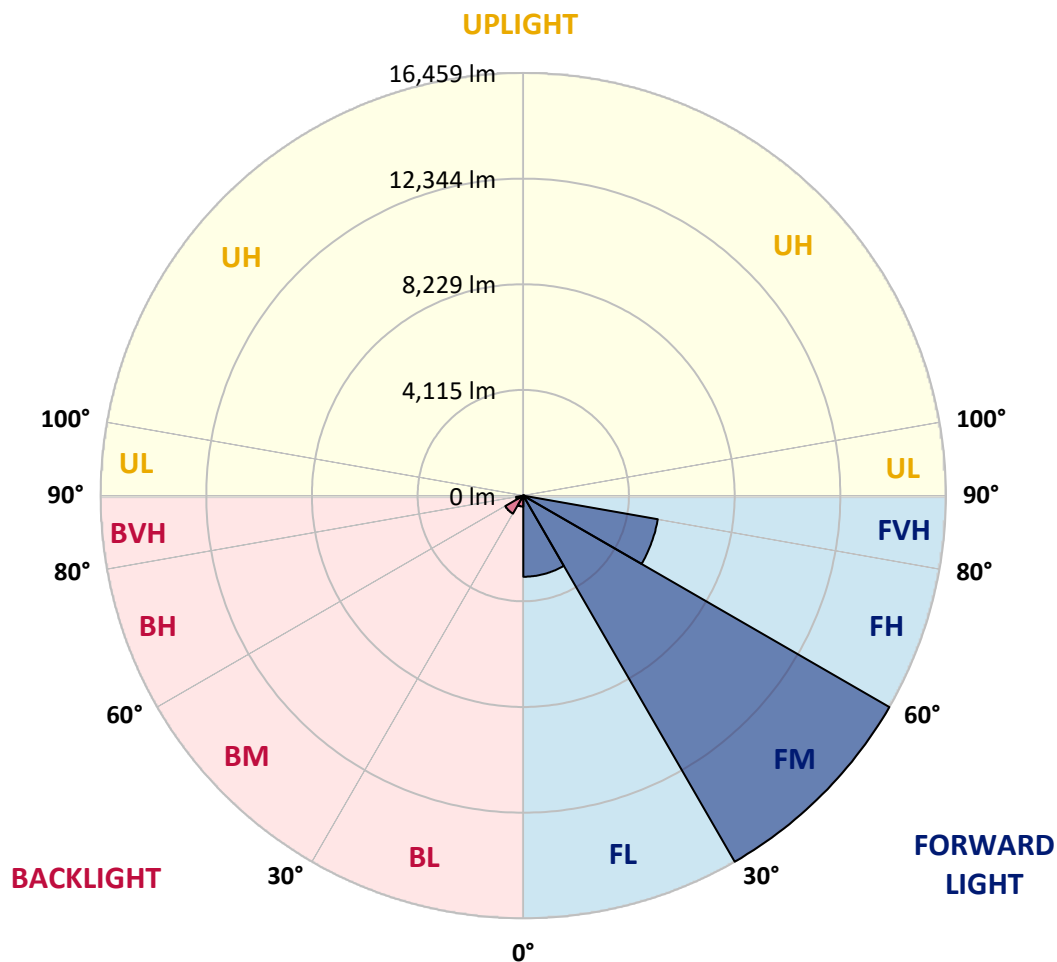
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3159.0	11.9			
FM	(30°-60°)	16458.6	62.1			
FH	(60°-80°)	5317.2	20.0			G3/7500
FVH	(80°-90°)	59.4	0.2			G1/100
BL	(0°-30°)	427.3	1.6	B1/500		
BM	(30°-60°)	809.9	3.1	B1/1000		
BH	(60°-80°)	287.2	1.1	B1/500		G1/500
BVH	(80°-90°)	5.3	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2221.4	2221.4	2221.4	2221.4	2221.4	2221.4	2221.4	2221.4	2221.4	2221.4	2221.4
2.5°	3250.5	3221.2	3162.6	3142.5	3056.4	2922.7	2805.5	2648.0	2523.5	2510.7	2360.5
5°	4353.0	4287.0	4259.6	4127.7	3920.8	3726.7	3393.4	3140.7	2849.5	2827.5	2525.3
7.5°	5415.1	5323.5	5296.1	5171.6	4929.8	4624.0	4191.8	3732.2	3270.7	3228.6	2746.9
10°	6184.3	6197.1	6147.6	6065.2	5869.3	5558.0	5025.0	4396.9	3739.5	3686.4	2996.0
12.5°	6735.5	6733.6	6742.8	6741.0	6636.6	6400.3	5840.0	5116.6	4255.9	4151.5	3281.7
15°	7094.4	7099.9	7127.4	7222.6	7233.6	7087.1	6620.1	5805.2	4854.7	4724.7	3591.2
17.5°	7457.0	7495.5	7539.4	7629.1	7709.7	7651.1	7321.5	6523.0	5396.8	5299.7	3922.6
20°	8055.8	8108.9	8083.3	8138.2	8180.4	8185.9	7931.3	7186.0	6054.2	5891.2	4301.7
22.5°	9013.6	9011.8	8945.8	8846.9	8764.5	8760.9	8530.1	7867.2	6651.2	6493.7	4682.6
25°	10224.1	10229.6	10101.4	9819.4	9614.3	9363.4	9097.8	8464.2	7290.4	7096.2	5083.7
27.5°	11612.2	11577.4	11383.3	10995.0	10588.5	10160.0	9777.2	9158.3	7967.9	7806.8	5543.3
30°	12859.3	12846.5	12619.4	12145.1	11610.4	11180.0	10625.1	10028.1	8845.1	8647.3	6057.9
32.5°	14020.3	14038.6	13723.7	13232.9	12716.5	12220.2	11634.2	10859.5	9705.8	9425.6	6618.3
35°	14926.8	14945.1	14619.2	14210.8	13679.7	13267.7	12709.1	11745.9	10555.5	10319.3	7262.9
37.5°	15410.3	15434.1	15245.5	14937.8	14606.3	14399.4	13879.3	12886.8	11588.4	11445.5	8024.7
40°	15501.8	15529.3	15446.9	15364.5	15346.2	15494.5	15342.5	14230.9	13020.4	12797.0	9160.1
42.5°	15227.1	15263.8	15300.4	15483.5	15857.1	16401.0	16930.2	16054.9	14864.6	14564.2	10548.2
45°	14505.6	14502.0	14646.6	15120.9	15957.8	17118.9	18589.4	18338.5	17377.1	17020.0	12509.5
47.5°	13271.3	13253.0	13566.2	14241.9	15545.8	17250.7	19942.7	21111.1	20583.7	20254.0	14617.3
50°	11390.6	11480.3	11973.0	12916.1	14522.1	16851.5	20360.2	22929.5	23215.2	22865.4	16320.4
52.5°	9187.6	9183.9	9956.7	11236.8	13005.8	15972.5	20069.1	23259.2	24070.4	23803.1	17159.2
55°	6799.6	6847.2	7651.1	8942.2	11037.2	14368.3	19118.6	22920.4	24396.4	24207.8	17712.2
57°	5058.0	5142.3	5786.9	7153.0	9323.1	12780.5	17853.2	22314.2	24524.6	24422.0	18171.9
57.5°	4721.1	4724.7	5352.9	6594.5	8821.3	12170.7	17490.6	22061.5	24520.9	24464.2	18246.9
60°	2906.3	2997.8	3431.8	4457.4	6457.1	9498.9	15060.5	20609.3	24330.5	24412.9	18567.4
62.5°	1739.7	1778.2	2060.2	2686.5	4162.5	6933.3	12324.6	18750.5	23834.2	24085.1	18545.4
65°	1118.9	1128.1	1256.3	1626.2	2602.3	4686.3	9497.1	16294.8	22550.5	23011.9	17820.2
67.5°	864.4	879.0	930.3	1067.6	1509.0	2919.1	6717.2	13674.2	20473.8	21069.0	16062.2
70°	767.3	774.6	792.9	836.9	998.1	1648.2	4179.0	10681.9	16977.9	17146.3	12570.0
72.5°	626.3	646.4	703.2	717.9	791.1	1029.2	2325.7	7169.5	11407.1	11449.2	7032.1
75°	485.3	489.0	573.2	615.3	666.6	708.7	1038.3	3615.0	5479.2	5186.2	2710.3
77.5°	362.6	379.1	417.5	470.6	543.9	507.3	465.1	1362.5	1701.3	1670.1	787.5
80°	232.6	241.7	291.2	353.4	423.0	331.5	261.9	399.2	373.6	384.6	188.6
82.5°	117.2	119.0	186.8	287.5	269.2	166.6	164.8	163.0	139.2	137.3	87.9
85°	12.8	27.5	120.9	164.8	120.9	54.9	76.9	75.1	73.3	75.1	51.3
87.5°	1.8	1.8	20.1	23.8	16.5	18.3	22.0	23.8	29.3	27.5	22.0
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°	2221.4	2221.4	2221.4	2221.4	2221.4	2221.4	2221.4	2221.4	2221.4	2221.4	2221.4
2.5°	2287.3	2214.0	2078.5	1948.5	1851.4	1789.2	1708.6	1679.3	1637.2	1631.7	1611.5
5°	2386.2	2247.0	2010.8	1824.0	1673.8	1560.3	1461.4	1379.0	1313.0	1298.4	1305.7
7.5°	2527.2	2320.2	1990.6	1736.1	1527.3	1333.2	1175.7	1078.6	1009.0	983.4	987.1
10°	2686.5	2417.3	1986.9	1642.7	1324.0	1086.0	913.8	827.7	787.5	772.8	756.3
12.5°	2875.1	2529.0	1977.8	1498.0	1100.6	866.2	743.5	692.2	653.8	642.8	642.8
15°	3087.5	2648.0	1933.8	1318.5	893.7	716.0	633.6	593.3	580.5	569.5	569.5
17.5°	3309.1	2765.2	1842.3	1096.9	741.7	613.5	562.2	538.4	520.1	507.3	507.3
20°	3561.9	2880.6	1695.8	901.0	626.3	547.6	507.3	479.8	465.1	454.2	450.5
22.5°	3801.8	2974.0	1509.0	739.8	545.7	492.6	456.0	426.7	412.0	406.5	406.5
25°	4050.8	3030.8	1283.7	611.6	498.1	446.8	406.5	382.7	369.9	366.3	364.4
27.5°	4292.5	3063.7	1086.0	534.7	454.2	404.7	366.3	347.9	335.1	331.5	333.3
30°	4585.5	3069.2	893.7	479.8	415.7	364.4	329.6	313.1	305.8	302.2	300.3
32.5°	4882.2	3061.9	750.8	446.8	379.1	329.6	300.3	287.5	282.0	276.5	276.5
35°	5215.5	3023.5	639.1	413.9	344.3	300.3	274.7	263.7	256.4	250.9	249.1
37.5°	5629.4	3003.3	575.0	377.2	313.1	272.9	249.1	238.1	232.6	225.2	223.4
40°	6281.3	3093.0	554.9	344.3	282.0	247.2	225.2	212.4	205.1	197.8	195.9
42.5°	7094.4	3250.5	521.9	311.3	254.5	223.4	201.4	186.8	174.0	164.8	161.2
45°	8147.4	3457.5	470.6	276.5	230.7	197.8	177.6	159.3	142.8	135.5	133.7
47.5°	9251.7	3657.1	424.9	249.1	205.1	175.8	153.8	133.7	119.0	113.5	111.7
50°	9929.2	3697.4	395.6	217.9	179.5	152.0	130.0	111.7	102.6	97.1	97.1
52.5°	10238.7	3633.3	355.3	190.5	155.7	133.7	111.7	97.1	91.6	87.9	86.1
55°	10454.8	3534.4	302.2	164.8	133.7	113.5	98.9	87.9	80.6	76.9	75.1
57°	10581.2	3400.7	261.9	144.7	115.4	98.9	87.9	78.7	71.4	64.1	64.1
57.5°	10586.7	3349.4	250.9	142.8	109.9	95.2	86.1	76.9	67.8	60.4	58.6
60°	10423.7	2997.8	201.4	120.9	87.9	80.6	71.4	60.4	47.6	40.3	38.5
62.5°	9899.9	2551.0	166.6	102.6	71.4	62.3	51.3	45.8	33.0	23.8	23.8
65°	9107.0	2069.4	142.8	82.4	58.6	45.8	34.8	33.0	20.1	11.0	9.2
67.5°	7960.6	1611.5	120.9	67.8	49.4	33.0	23.8	22.0	11.0	3.7	0.0
70°	6065.2	1098.8	100.7	54.9	36.6	23.8	16.5	12.8	7.3	1.8	0.0
72.5°	3495.9	604.3	84.2	42.1	27.5	18.3	12.8	7.3	7.3	0.0	0.0
75°	1248.9	260.0	64.1	31.1	22.0	14.7	9.2	3.7	5.5	1.8	0.0
77.5°	397.4	139.2	42.1	23.8	18.3	11.0	7.3	3.7	3.7	1.8	0.0
80°	117.2	73.3	25.6	20.1	12.8	9.2	5.5	1.8	3.7	1.8	0.0
82.5°	64.1	36.6	20.1	14.7	12.8	7.3	5.5	1.8	1.8	1.8	0.0
85°	33.0	22.0	16.5	14.7	12.8	7.3	5.5	1.8	0.0	1.8	1.8
87.5°	18.3	16.5	16.5	14.7	12.8	9.2	5.5	1.8	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	0.0

(END OF REPORT)