

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: P456415

Luminaire Tested: **GALN-SA7C-830-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456415
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-SA7C-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 31154 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 377
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

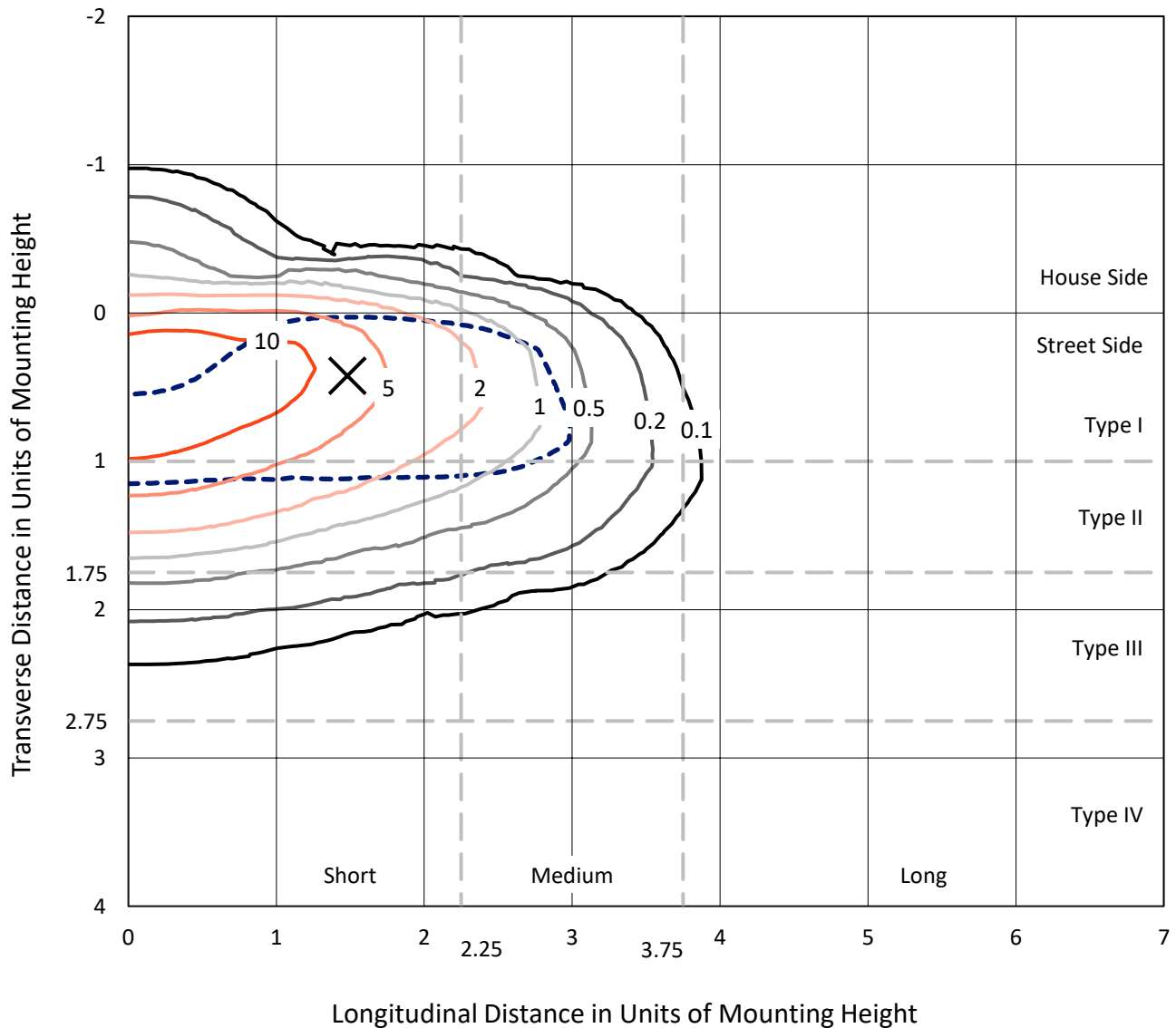


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Iso-Footcandle Lines of Horizontal Illumination

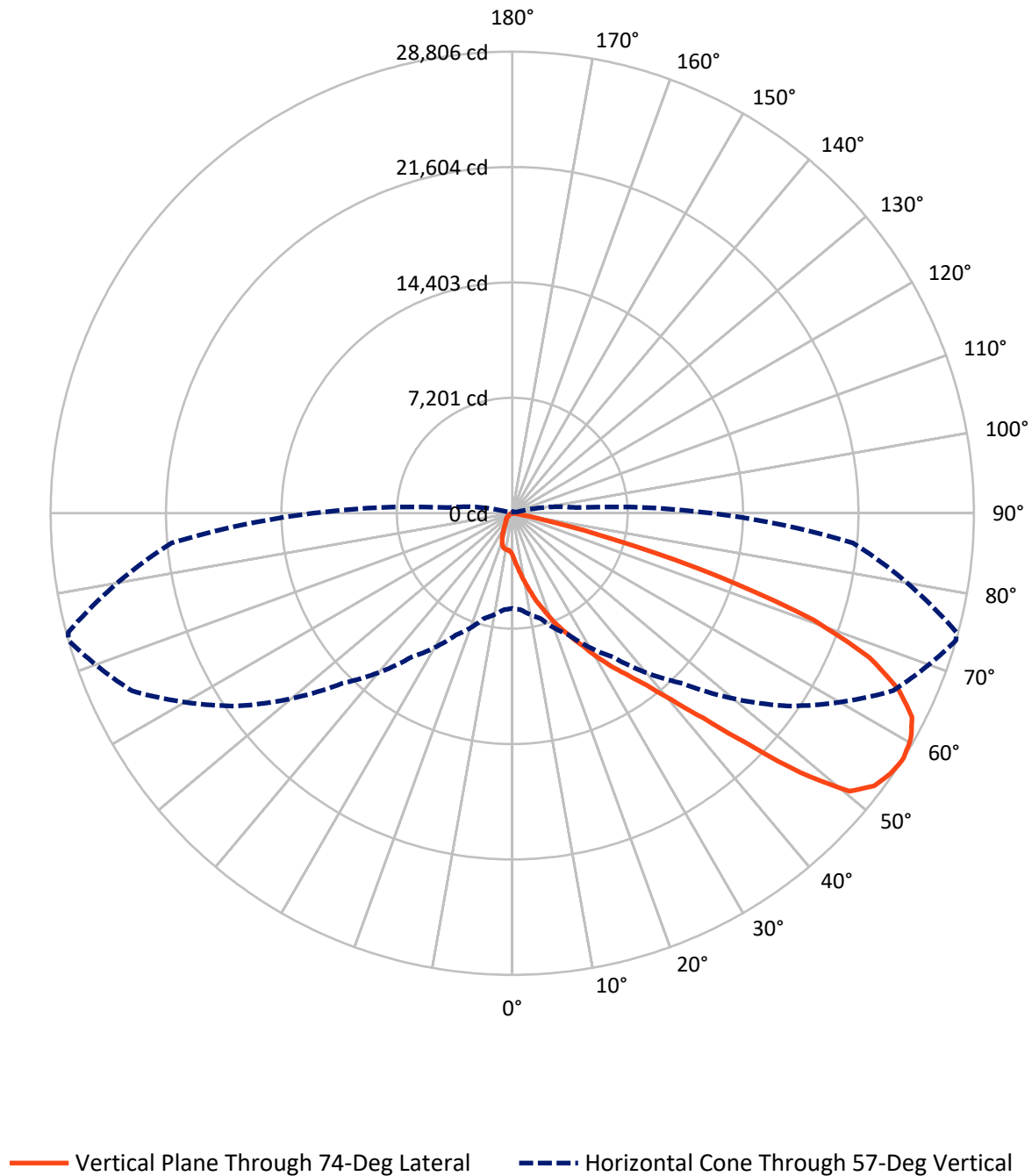
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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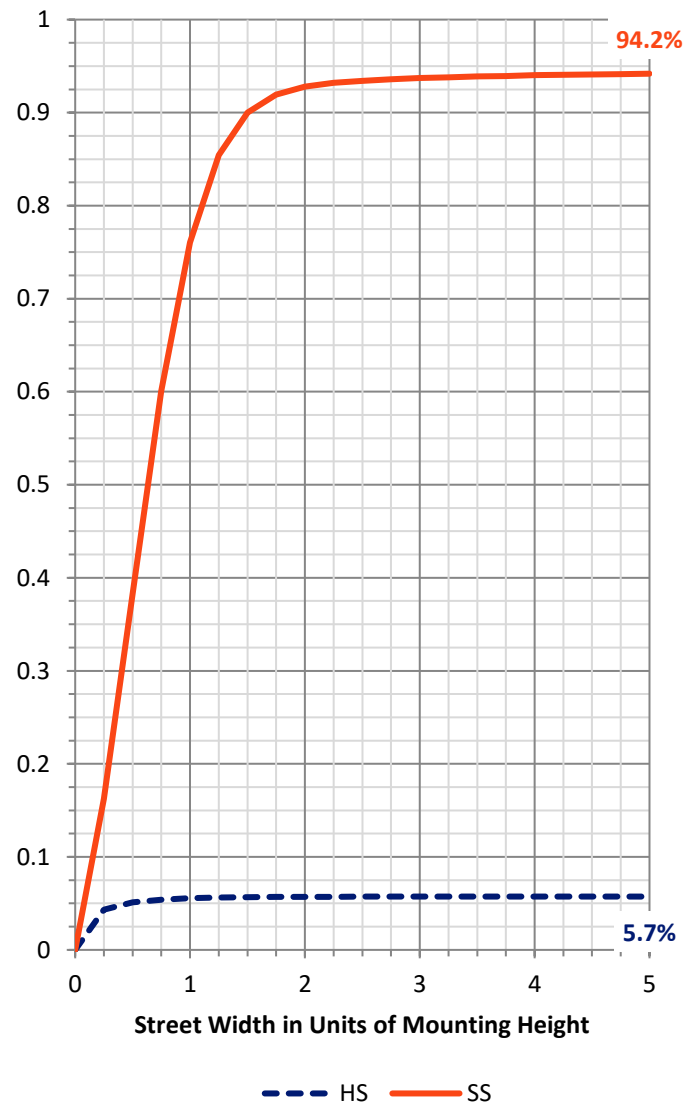
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1796.9	0.0	1796.9
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	29357.1	0.0	29357.1
	% Fixture	94.2	0.0	94.2
Total	Lumens	31154.0	0.0	31154.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.9	1.0
10°-20°	1241.3	4.0
20°-30°	2656.1	8.5
30°-40°	4881.9	15.7
40°-50°	7484.0	24.0
50°-60°	7917.1	25.4
60°-70°	5170.1	16.6
70°-80°	1412.6	4.5
80°-90°	76.1	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°	31154.0	100.0
0°-180°	31154.0	100.0

Coefficient of Utilization



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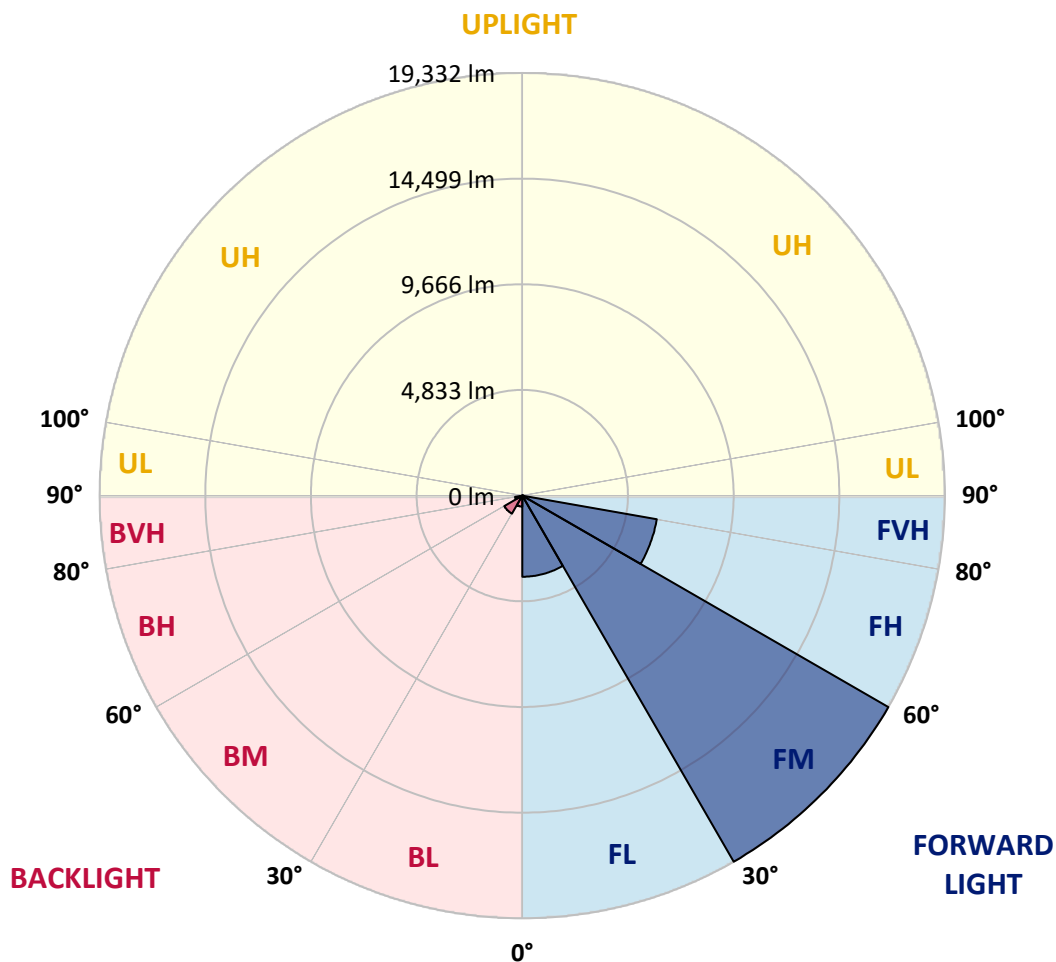
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3710.4	11.9			
FM	(30°-60°)	19331.6	62.1			
FH	(60°-80°)	6245.3	20.0			G3/7500
FVH	(80°-90°)	69.8	0.2			G1/100
BL	(0°-30°)	501.9	1.6	B2/1000		
BM	(30°-60°)	951.3	3.1	B1/1000		
BH	(60°-80°)	337.4	1.1	B1/500		G1/500
BVH	(80°-90°)	6.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2609.1	2609.1	2609.1	2609.1	2609.1	2609.1	2609.1	2609.1	2609.1	2609.1	2609.1
2.5°	3817.9	3783.5	3714.7	3691.0	3589.9	3432.9	3295.3	3110.3	2964.0	2949.0	2772.6
5°	5112.8	5035.4	5003.1	4848.2	4605.2	4377.2	3985.7	3688.9	3346.9	3321.1	2966.2
7.5°	6360.4	6252.8	6220.6	6074.3	5790.4	5431.2	4923.5	4383.6	3841.6	3792.1	3226.4
10°	7263.8	7278.8	7220.8	7124.0	6893.8	6528.1	5902.2	5164.4	4392.2	4329.9	3519.0
12.5°	7911.2	7909.1	7919.8	7917.7	7795.1	7517.6	6859.4	6009.8	4998.8	4876.2	3854.5
15°	8332.8	8339.2	8371.5	8483.4	8496.3	8324.2	7775.7	6818.5	5702.2	5549.5	4218.0
17.5°	8758.7	8803.9	8855.5	8960.9	9055.5	8986.7	8599.5	7661.7	6338.9	6224.9	4607.3
20°	9462.0	9524.4	9494.3	9558.8	9608.3	9614.8	9315.8	8440.3	7111.1	6919.6	5052.6
22.5°	10587.0	10584.8	10507.4	10391.3	10294.5	10290.2	10019.1	9240.5	7812.3	7627.3	5500.0
25°	12008.8	12015.2	11864.7	11533.4	11292.5	10997.8	10685.9	9941.7	8562.9	8334.9	5971.0
27.5°	13639.2	13598.3	13370.3	12914.3	12436.8	11933.5	11483.9	10756.9	9358.8	9169.5	6510.9
30°	15104.0	15088.9	14822.2	14265.1	13637.0	13131.6	12479.8	11778.6	10389.1	10156.8	7115.4
32.5°	16467.7	16489.2	16119.2	15542.8	14936.2	14353.3	13665.0	12755.2	11400.1	11071.0	7773.5
35°	17532.4	17553.9	17171.1	16691.4	16067.6	15583.7	14927.6	13796.2	12398.1	12120.6	8530.7
37.5°	18100.3	18128.2	17906.7	17545.3	17156.0	16912.9	16302.1	15136.3	13611.2	13443.5	9425.5
40°	18207.8	18240.1	18143.3	18046.5	18025.0	18199.2	18020.7	16715.1	15293.3	15030.9	10759.1
42.5°	17885.2	17928.2	17971.2	18186.3	18625.1	19263.9	19885.6	18857.4	17459.3	17106.5	12389.5
45°	17037.7	17033.4	17203.3	17760.4	18743.4	20107.1	21834.3	21539.7	20410.4	19991.0	14693.2
47.5°	15588.0	15566.5	15934.3	16728.0	18259.4	20262.0	23423.9	24796.2	24176.7	23789.5	17168.9
50°	13378.9	13484.3	14062.9	15170.7	17057.1	19793.1	23914.3	26932.1	27267.6	26856.8	19169.3
52.5°	10791.3	10787.0	11694.7	13198.3	15276.1	18760.6	23572.3	27319.3	28272.1	27958.1	20154.4
55°	7986.5	8042.4	8986.7	10503.1	12963.8	16876.4	22456.0	26921.3	28655.0	28433.5	20804.0
57°	5940.9	6039.9	6797.0	8401.6	10950.5	15011.5	20969.6	26209.4	28805.6	28685.1	21343.9
57.5°	5545.2	5549.5	6287.2	7745.6	10361.1	14295.2	20543.8	25912.5	28801.3	28734.6	21432.1
60°	3413.6	3521.1	4030.9	5235.4	7584.3	11157.0	17689.4	24206.8	28577.6	28674.4	21808.5
62.5°	2043.4	2088.6	2419.8	3155.4	4889.1	8143.5	14475.9	22023.6	27994.7	28289.3	21782.7
65°	1314.2	1325.0	1475.6	1910.0	3056.5	5504.3	11154.8	19139.2	26486.8	27028.9	20930.9
67.5°	1015.3	1032.5	1092.7	1254.0	1772.4	3428.6	7889.7	16061.2	24047.7	24746.7	18866.0
70°	901.2	909.9	931.4	983.0	1172.3	1935.9	4908.5	12546.5	19941.5	20139.4	14764.1
72.5°	735.6	759.3	826.0	843.2	929.2	1208.8	2731.7	8421.0	13398.3	13447.8	8259.7
75°	570.0	574.3	673.2	722.7	782.9	832.4	1219.6	4246.0	6435.7	6091.5	3183.4
77.5°	425.9	445.2	490.4	552.8	638.8	595.8	546.3	1600.3	1998.2	1961.7	924.9
80°	273.2	283.9	342.0	415.1	496.9	389.3	307.6	468.9	438.8	451.7	221.5
82.5°	137.7	139.8	219.4	337.7	316.2	195.7	193.6	191.4	163.5	161.3	103.2
85°	15.1	32.3	142.0	193.6	142.0	64.5	90.3	88.2	86.0	88.2	60.2
87.5°	2.2	2.2	23.7	28.0	19.4	21.5	25.8	28.0	34.4	32.3	25.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2609.1	2609.1	2609.1	2609.1	2609.1	2609.1	2609.1	2609.1	2609.1	2609.1	2609.1
2.5°	2686.5	2600.5	2441.3	2288.6	2174.6	2101.5	2006.8	1972.4	1923.0	1916.5	1892.8
5°	2802.7	2639.2	2361.7	2142.3	1966.0	1832.6	1716.5	1619.7	1542.2	1525.0	1533.6
7.5°	2968.3	2725.3	2338.1	2039.1	1793.9	1565.9	1380.9	1266.9	1185.2	1155.1	1159.4
10°	3155.4	2839.3	2333.8	1929.4	1555.1	1275.5	1073.3	972.2	924.9	907.7	888.3
12.5°	3377.0	2970.5	2323.0	1759.5	1292.7	1017.4	873.3	813.1	767.9	755.0	755.0
15°	3626.5	3110.3	2271.4	1548.7	1049.7	841.0	744.2	696.9	681.9	668.9	668.9
17.5°	3886.8	3247.9	2163.9	1288.4	871.1	720.6	660.3	632.4	610.9	595.8	595.8
20°	4183.6	3383.5	1991.8	1058.3	735.6	643.1	595.8	563.5	546.3	533.4	529.1
22.5°	4465.4	3493.1	1772.4	869.0	641.0	578.6	535.6	501.2	484.0	477.5	477.5
25°	4757.9	3559.8	1507.8	718.4	585.1	524.8	477.5	449.5	434.5	430.2	428.0
27.5°	5041.8	3598.5	1275.5	628.1	533.4	475.4	430.2	408.7	393.6	389.3	391.5
30°	5386.0	3605.0	1049.7	563.5	488.3	428.0	387.2	367.8	359.2	354.9	352.8
32.5°	5734.4	3596.4	881.9	524.8	445.2	387.2	352.8	337.7	331.2	324.8	324.8
35°	6125.9	3551.2	750.7	486.1	404.4	352.8	322.6	309.7	301.1	294.7	292.5
37.5°	6612.0	3527.6	675.4	443.1	367.8	320.5	292.5	279.6	273.2	264.6	262.4
40°	7377.8	3633.0	651.7	404.4	331.2	290.4	264.6	249.5	240.9	232.3	230.2
42.5°	8332.8	3817.9	613.0	365.7	299.0	262.4	236.6	219.4	204.3	193.6	189.3
45°	9569.6	4061.0	552.8	324.8	271.0	232.3	208.6	187.1	167.8	159.2	157.0
47.5°	10866.6	4295.5	499.0	292.5	240.9	206.5	180.7	157.0	139.8	133.4	131.2
50°	11662.5	4342.8	464.6	256.0	210.8	178.5	152.7	131.2	120.5	114.0	114.0
52.5°	12026.0	4267.5	417.3	223.7	182.8	157.0	131.2	114.0	107.5	103.2	101.1
55°	12279.8	4151.3	354.9	193.6	157.0	133.4	116.2	103.2	94.6	90.3	88.2
57°	12428.2	3994.3	307.6	169.9	135.5	116.2	103.2	92.5	83.9	75.3	75.3
57.5°	12434.7	3934.1	294.7	167.8	129.1	111.8	101.1	90.3	79.6	71.0	68.8
60°	12243.2	3521.1	236.6	142.0	103.2	94.6	83.9	71.0	55.9	47.3	45.2
62.5°	11628.1	2996.3	195.7	120.5	83.9	73.1	60.2	53.8	38.7	28.0	28.0
65°	10696.7	2430.6	167.8	96.8	68.8	53.8	40.9	38.7	23.7	12.9	10.8
67.5°	9350.2	1892.8	142.0	79.6	58.1	38.7	28.0	25.8	12.9	4.3	0.0
70°	7124.0	1290.6	118.3	64.5	43.0	28.0	19.4	15.1	8.6	2.2	0.0
72.5°	4106.2	709.8	98.9	49.5	32.3	21.5	15.1	8.6	8.6	0.0	0.0
75°	1467.0	305.4	75.3	36.6	25.8	17.2	10.8	4.3	6.5	2.2	0.0
77.5°	466.8	163.5	49.5	28.0	21.5	12.9	8.6	4.3	4.3	2.2	0.0
80°	137.7	86.0	30.1	23.7	15.1	10.8	6.5	2.2	4.3	2.2	0.0
82.5°	75.3	43.0	23.7	17.2	15.1	8.6	6.5	2.2	2.2	2.2	0.0
85°	38.7	25.8	19.4	17.2	15.1	8.6	6.5	2.2	0.0	2.2	2.2
87.5°	21.5	19.4	19.4	17.2	15.1	10.8	6.5	2.2	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)