

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: P647006

Luminaire Tested: **GALN-SA6C-835-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647006
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-835-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23443 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

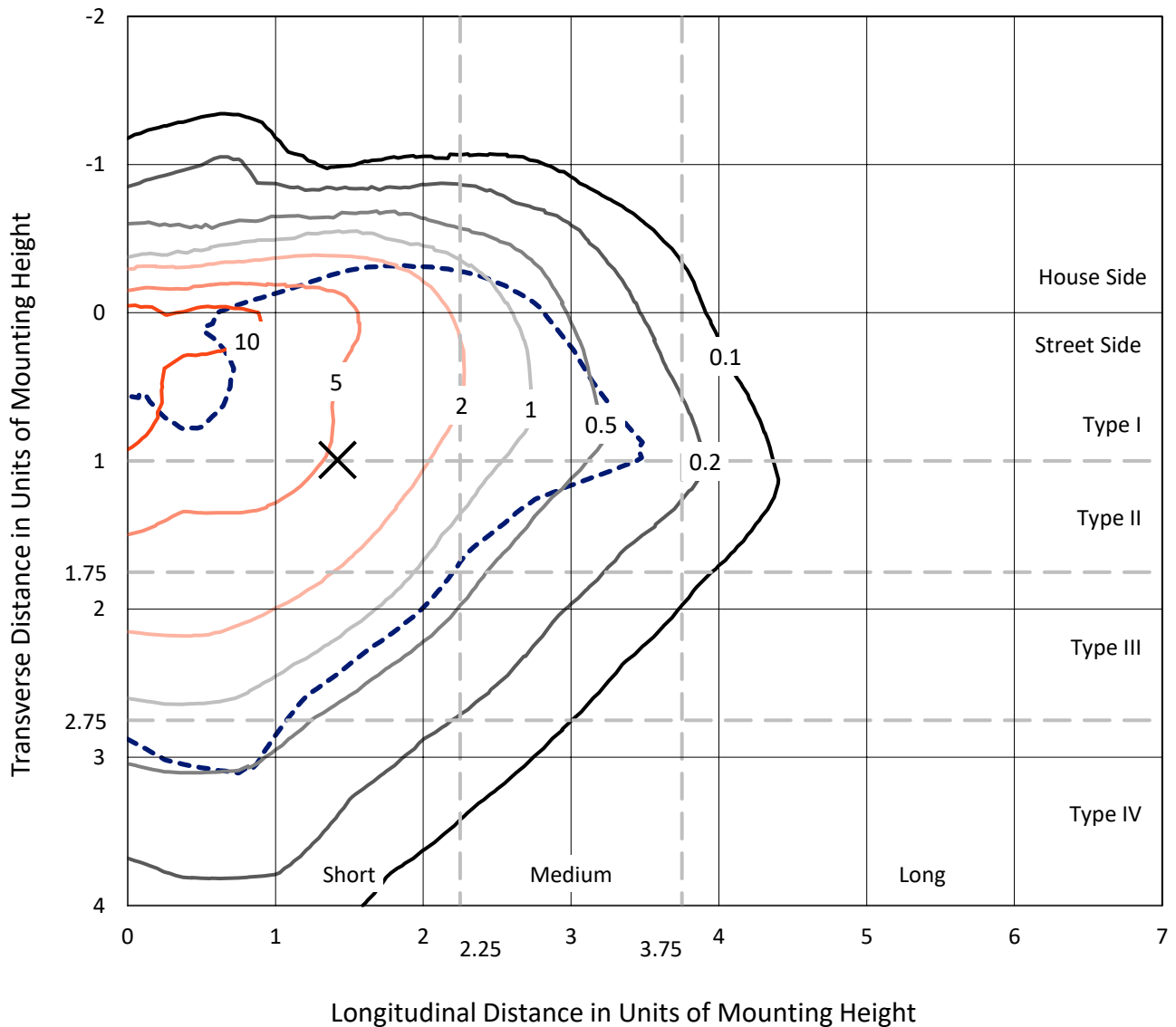
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

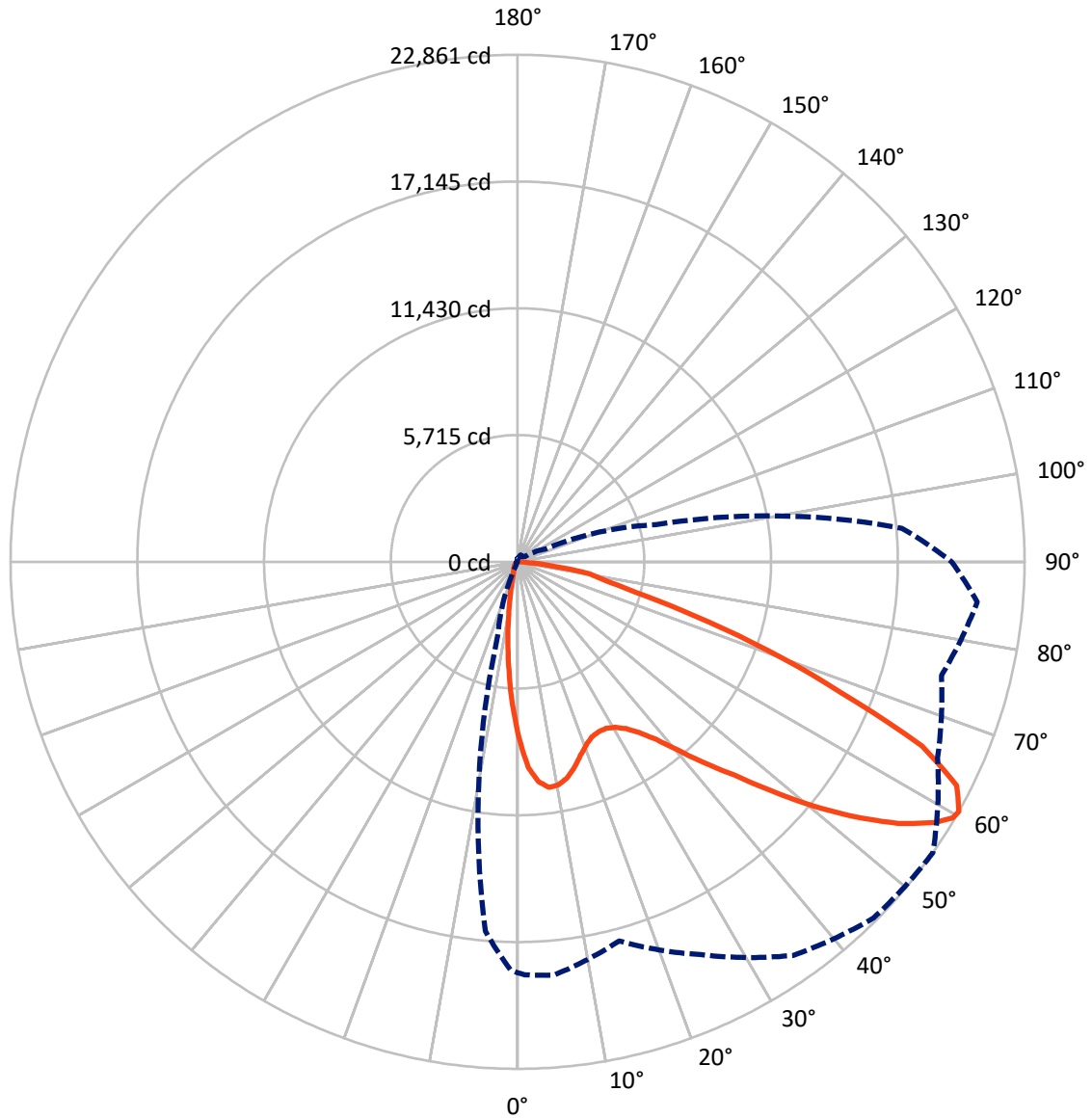
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical



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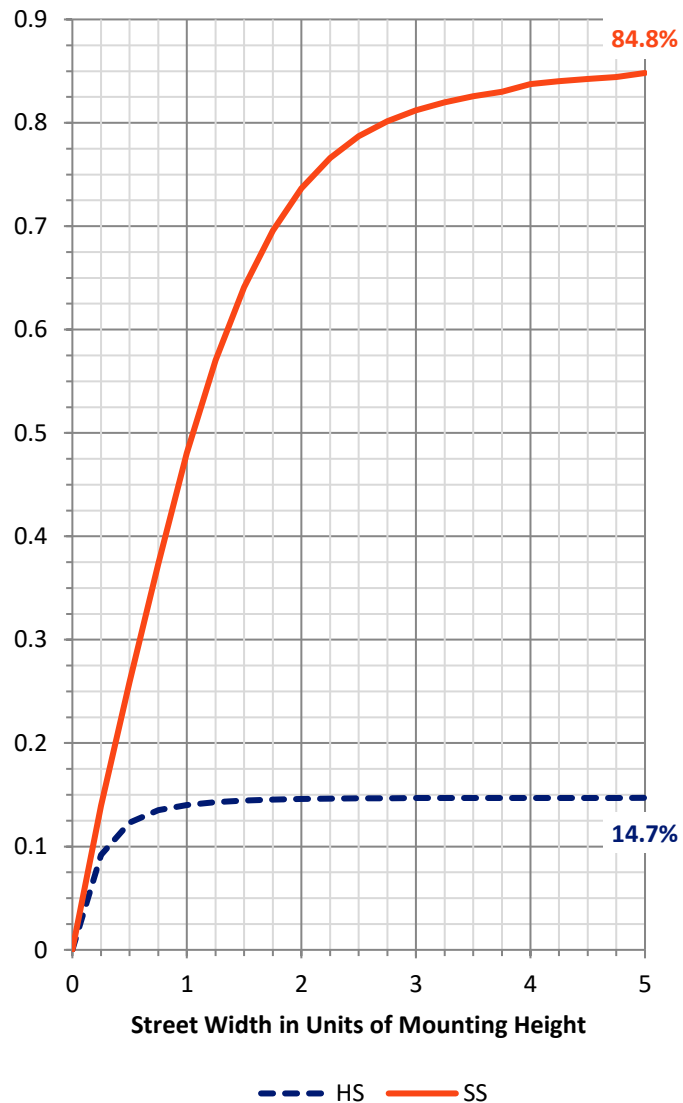
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3479.2	0.0	3479.2
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	19963.9	0.0	19963.9
	% Fixture	85.2	0.0	85.2
Total	Lumens	23443.0	0.0	23443.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	587.8	2.5
10°-20°	1157.5	4.9
20°-30°	1713.3	7.3
30°-40°	2553.9	10.9
40°-50°	3740.2	16.0
50°-60°	5399.7	23.0
60°-70°	5680.2	24.2
70°-80°	2336.6	10.0
80°-90°	273.7	1.2
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°	23443.0	100.0
0°-180°	23443.0	100.0

Coefficient of Utilization



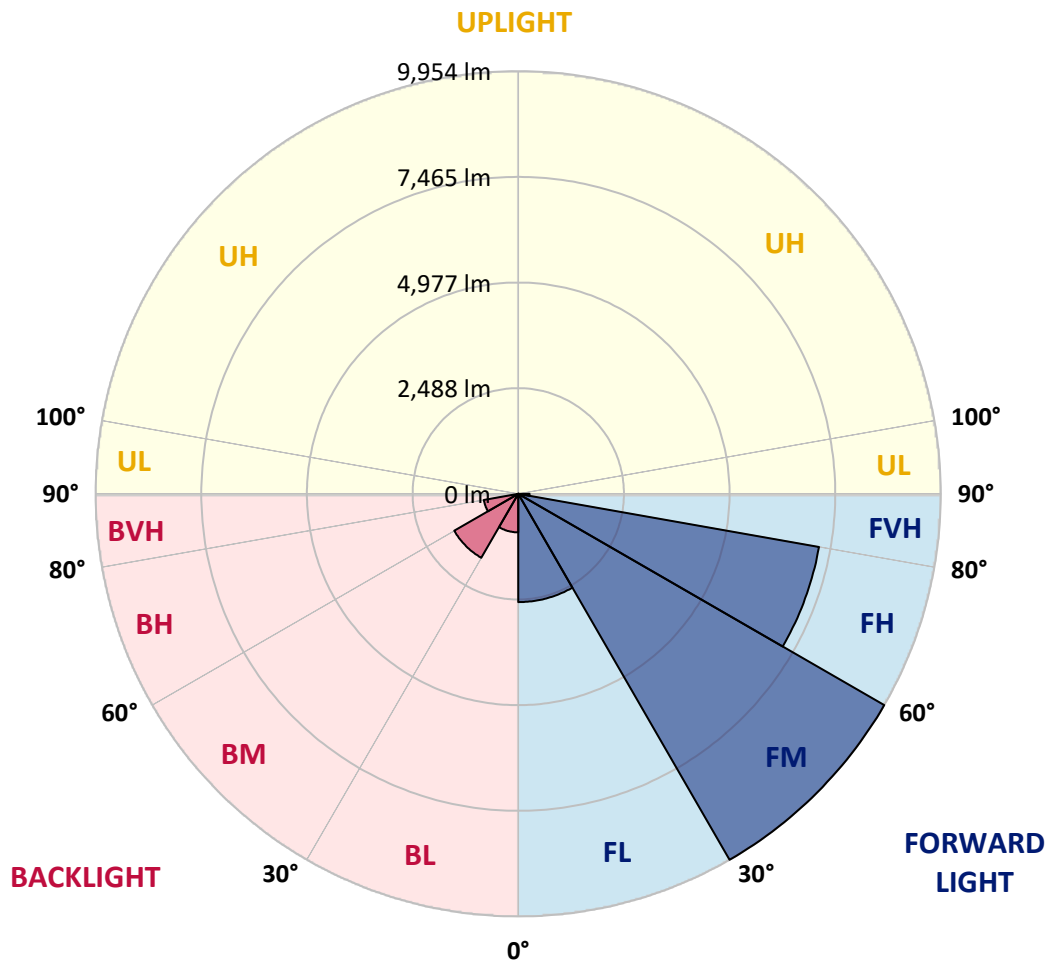
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2550.9	10.9			
FM (30°-60°)	9953.9	42.5			
FH (60°-80°)	7193.4	30.7			G3/7500
FVH (80°-90°)	265.6	1.1			G3/500
BL (0°-30°)	907.7	3.9	B2/1000		
BM (30°-60°)	1739.9	7.4	B2/2500		
BH (60°-80°)	823.5	3.5	B2/1000		G2/1000
BVH (80°-90°)	8.0	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7937.7	7937.7	7937.7	7937.7	7937.7	7937.7	7937.7	7937.7	7937.7	7937.7	7937.7
2.5°	8672.1	8657.7	8785.8	8995.2	9206.3	9316.4	9294.7	9285.7	9110.6	8982.5	8713.6
5°	8654.1	8728.1	8957.3	9523.9	9953.3	10160.8	10222.1	9964.1	9623.1	9128.7	8518.8
7.5°	8136.2	8228.2	8601.8	9487.8	10251.0	10702.1	10685.9	10272.7	9569.0	8803.9	7934.1
10°	7493.9	7602.1	8040.6	9116.1	10106.7	10702.1	10734.6	10211.3	9336.2	8354.5	7439.8
12.5°	7041.0	7169.1	7654.5	8769.6	9735.0	10321.4	10359.3	9980.4	9161.2	8181.3	7170.9
15°	6887.6	7008.5	7501.1	8594.5	9339.8	9655.6	9646.6	9606.9	9092.6	8222.8	7185.3
17.5°	7151.0	7250.3	7806.0	8673.9	8969.9	8937.4	8984.3	9175.6	9107.0	8571.1	7640.0
20°	7831.3	7932.3	8529.6	8917.6	8686.6	8480.9	8502.5	8821.9	9240.6	9226.1	8350.9
22.5°	8767.8	8939.2	9480.6	9390.3	8648.7	8197.6	8152.4	8567.5	9467.9	9980.4	9310.9
25°	9953.3	10126.5	10548.7	10144.5	8834.5	8130.8	8089.3	8489.9	9744.0	10716.6	10391.8
27.5°	10949.4	11081.1	11501.5	10879.0	9108.8	8159.7	8091.1	8500.7	9967.7	11342.7	11303.0
30°	11747.0	11844.4	12091.6	11221.8	9345.2	8286.0	8206.6	8659.5	10067.0	11647.7	12041.1
32.5°	12389.3	12553.5	12631.1	11588.2	9684.5	8524.2	8388.8	8964.5	10308.7	12024.8	12815.1
35°	13123.7	13313.2	13213.9	11938.2	10131.9	8895.9	8729.9	9458.9	10675.1	12373.0	13713.8
37.5°	14054.8	14273.2	13885.2	12306.3	10604.7	9455.3	9377.7	10153.6	11230.9	12871.1	14677.3
40°	15018.4	15144.7	14536.6	12753.8	11185.7	10269.0	10343.0	11185.7	11958.1	13468.4	15702.3
42.5°	15770.8	15889.9	15206.0	13129.1	11779.4	11234.5	11543.0	12430.8	12791.7	14080.1	16467.4
45°	16346.5	16447.5	15669.8	13538.7	12580.5	12632.9	13215.7	13713.8	13627.2	14453.6	17057.4
47.5°	16793.9	16880.5	16027.1	13979.0	13780.5	14343.5	15234.9	15446.0	14493.3	14857.8	17591.5
50°	16978.0	17003.2	16139.0	14540.2	15142.9	16523.3	17452.6	17324.4	15485.7	15307.1	18159.9
52.5°	17218.0	17212.6	16458.3	15074.3	16424.1	18472.1	19399.5	19109.0	16608.1	15980.2	18798.7
55°	17847.7	17855.0	17142.2	15832.2	17515.7	20045.6	21038.0	20826.9	17791.8	17116.9	19543.9
57.5°	18612.8	18639.9	18114.8	16718.1	18558.7	21185.9	22261.4	22180.2	19392.3	18381.9	20247.7
59°	18712.1	18766.2	18575.0	17342.5	19177.6	21536.0	22680.1	22759.5	20249.5	19215.5	20628.4
60°	18531.7	18621.9	18708.5	17696.2	19540.3	21662.3	22705.3	22860.5	20893.7	19782.1	20801.6
62.5°	17744.9	17887.4	18322.3	18784.2	19993.2	21268.9	21898.7	22223.5	21691.2	21270.7	20817.9
65°	16714.5	16788.5	17416.5	18977.3	19114.4	19432.0	19626.9	20043.8	20733.1	21844.6	20072.6
67.5°	15025.6	15243.9	16012.6	17856.8	16521.5	16146.2	16097.5	15682.4	17472.4	20476.8	18235.7
70°	12412.7	12510.2	13457.5	14639.4	12468.7	11891.3	12122.2	11967.1	13544.2	17627.6	14677.3
72.5°	9386.7	9606.9	10532.5	11669.4	8484.5	7735.6	8372.6	8314.8	10173.4	14166.7	10083.2
75°	6678.2	6820.8	8000.9	9132.3	5942.0	5034.4	5263.6	5478.3	7102.3	11185.7	5958.2
77.5°	4588.7	4711.4	5597.4	6039.4	4334.3	4152.0	3798.3	4005.8	4653.7	6636.7	3242.6
80°	2768.0	2762.6	3345.4	3453.7	3018.9	3506.0	2941.3	3302.1	2813.2	2840.2	1255.9
82.5°	1797.2	1779.2	2046.2	2230.3	1679.9	1766.5	1185.5	1708.8	1833.3	792.2	397.0
85°	804.8	839.1	983.4	1297.4	736.2	391.6	241.8	525.1	781.4	398.8	0.0
87.5°	83.0	65.0	173.2	315.8	101.1	10.8	36.1	18.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7937.7	7937.7	7937.7	7937.7	7937.7	7937.7	7937.7	7937.7	7937.7	7937.7	7937.7
2.5°	8589.1	8484.5	8172.3	7880.0	7629.2	7322.5	7124.0	6811.8	6622.3	6564.6	6573.6
5°	8244.5	7943.1	7349.5	6874.9	6346.2	6044.9	5586.5	5146.3	4908.1	4819.7	4780.0
7.5°	7522.8	7199.8	6483.4	5738.1	5171.6	4642.8	4301.8	3913.8	3648.5	3430.2	3392.3
10°	6986.8	6562.8	5674.9	4873.8	4426.3	4029.3	3688.2	3300.3	2988.2	2739.2	2670.6
12.5°	6665.6	6191.0	5200.4	4529.2	4105.1	3697.3	3253.4	2804.1	2484.7	2215.9	2091.3
15°	6607.9	6057.5	5066.9	4281.9	3758.6	3266.0	2676.0	2190.6	1862.2	1607.7	1530.1
17.5°	6956.1	6297.5	5047.1	4023.9	3305.7	2607.4	1993.9	1591.5	1221.6	1079.1	1023.1
20°	7576.9	6721.6	5045.2	3724.3	2840.2	2008.3	1400.2	1037.6	887.8	819.3	786.8
22.5°	8423.1	7299.0	5140.9	3466.3	2356.6	1481.4	999.7	826.5	739.9	683.9	671.3
25°	9457.1	8154.2	5375.5	3291.3	1986.7	1162.1	824.7	707.4	635.2	609.9	599.1
27.5°	10375.5	8973.5	5633.5	3110.9	1721.4	1028.5	765.1	647.8	590.1	570.2	554.0
30°	11167.7	9717.0	5757.9	2872.7	1508.5	941.9	775.9	692.9	617.1	557.6	530.5
32.5°	11828.2	10287.1	5839.1	2656.2	1328.0	770.5	613.5	535.9	501.7	480.0	462.0
35°	12654.5	10904.2	5790.4	2533.5	1236.0	702.0	559.4	462.0	404.2	360.9	342.9
37.5°	13520.7	11521.4	5705.6	2432.4	1194.5	651.4	532.3	438.5	375.3	330.2	306.8
40°	14417.5	12093.4	5606.4	2338.6	1156.6	619.0	516.1	418.6	355.5	306.8	281.5
42.5°	15238.5	12650.9	5566.7	2277.2	1095.3	624.4	503.5	409.6	335.6	285.1	263.5
45°	15902.6	13179.6	5620.8	2244.7	1028.5	615.3	507.1	398.8	319.4	270.7	249.0
47.5°	16611.7	13926.7	5795.8	2212.2	963.6	572.0	534.1	397.0	312.2	261.7	238.2
50°	17436.3	14883.0	6196.4	2132.8	884.2	525.1	568.4	395.2	303.2	250.8	227.4
52.5°	18535.3	15969.3	6609.7	1993.9	768.7	480.0	543.2	389.8	285.1	238.2	214.7
55°	19522.2	17113.3	6959.7	1829.7	622.6	415.0	489.0	366.3	254.4	216.5	194.9
57.5°	19930.1	17759.3	6948.9	1602.3	498.0	364.5	402.4	335.6	222.0	191.3	173.2
59°	19780.3	17678.1	6716.1	1434.5	454.7	337.4	333.8	332.0	207.5	173.2	158.8
60°	19569.2	17382.2	6465.3	1351.5	427.7	319.4	306.8	328.4	194.9	162.4	148.0
62.5°	18760.8	16155.2	5633.5	1210.8	391.6	270.7	245.4	277.9	173.2	140.8	128.1
65°	17589.7	14269.5	4769.2	1171.1	380.8	223.8	203.9	198.5	148.0	119.1	108.3
67.5°	15305.3	12075.3	3863.3	1144.0	384.4	187.7	178.6	149.8	122.7	99.2	92.0
70°	12254.0	9415.6	3163.2	1113.3	388.0	153.4	149.8	119.1	99.2	83.0	75.8
72.5°	7445.2	5581.1	2490.1	967.2	377.1	122.7	133.5	90.2	72.2	59.5	55.9
75°	4603.1	3820.0	1544.6	752.5	249.0	90.2	93.8	55.9	48.7	37.9	37.9
77.5°	2667.0	2412.5	552.2	270.7	110.1	54.1	41.5	28.9	27.1	16.2	16.2
80°	1106.1	886.0	191.3	92.0	59.5	25.3	9.0	1.8	0.0	0.0	0.0
82.5°	323.0	286.9	52.3	41.5	18.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	7937.7	7937.7	7937.7	7937.7	7937.7	7937.7	7937.7	7937.7	7937.7	7937.7	7937.7
2.5°	6420.2	6360.6	6333.6	6425.6	6340.8	6449.1	6366.1	6402.2	6508.6	6555.5	6676.4
5°	4805.2	4743.9	4715.0	4854.0	4846.8	4915.3	4908.1	4971.3	5025.4	4904.5	5029.0
7.5°	3347.2	3305.7	3374.3	3482.5	3598.0	3560.1	3560.1	3475.3	3504.2	3486.2	3480.7
10°	2546.1	2403.5	2367.4	2363.8	2407.1	2416.2	2367.4	2250.1	2293.5	2306.1	2381.9
12.5°	2002.9	1892.8	1725.0	1649.2	1629.4	1645.6	1485.0	1382.2	1430.9	1402.0	1476.0
15°	1436.3	1346.1	1246.8	1162.1	1138.6	1106.1	931.1	808.4	794.0	799.4	812.0
17.5°	1024.9	963.6	963.6	873.4	824.7	727.2	638.8	584.7	579.3	584.7	593.7
20°	756.1	723.6	720.0	696.5	642.4	577.4	516.1	505.3	501.7	510.7	514.3
22.5°	651.4	617.1	588.3	586.5	535.9	481.8	452.9	438.5	440.3	443.9	452.9
25°	582.9	546.8	516.1	498.0	462.0	424.1	397.0	389.8	389.8	395.2	397.0
27.5°	534.1	489.0	462.0	436.7	404.2	371.7	348.3	342.9	339.3	342.9	351.9
30°	499.9	454.7	420.5	382.6	357.3	326.6	306.8	299.6	297.7	299.6	306.8
32.5°	427.7	400.6	373.5	339.3	308.6	288.7	267.1	254.4	254.4	258.0	265.3
35°	323.0	308.6	306.8	297.7	272.5	250.8	225.6	212.9	212.9	220.2	223.8
37.5°	285.1	258.0	254.4	250.8	240.0	211.1	187.7	176.8	175.0	180.5	187.7
40°	259.9	229.2	212.9	209.3	211.1	178.6	153.4	142.6	142.6	144.4	151.6
42.5°	240.0	203.9	175.0	171.4	178.6	149.8	124.5	113.7	113.7	113.7	122.7
45°	223.8	182.3	148.0	129.9	140.8	122.7	101.1	90.2	86.6	90.2	93.8
47.5°	212.9	166.0	129.9	104.7	104.7	97.4	81.2	68.6	65.0	66.8	72.2
50°	203.9	151.6	110.1	84.8	75.8	77.6	61.4	52.3	48.7	48.7	54.1
52.5°	189.5	137.1	95.6	72.2	57.7	52.3	45.1	37.9	36.1	37.9	41.5
55°	171.4	124.5	83.0	59.5	45.1	36.1	32.5	27.1	25.3	27.1	32.5
57.5°	151.6	104.7	66.8	46.9	30.7	23.5	21.7	18.0	14.4	16.2	19.8
59°	138.9	93.8	57.7	37.9	23.5	16.2	16.2	12.6	9.0	10.8	16.2
60°	133.5	86.6	48.7	32.5	19.8	12.6	12.6	9.0	5.4	7.2	12.6
62.5°	113.7	72.2	37.9	19.8	9.0	1.8	5.4	1.8	0.0	1.8	5.4
65°	95.6	57.7	25.3	9.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
67.5°	79.4	43.3	12.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	63.2	28.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	43.3	16.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	27.1	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7937.7	7937.7	7937.7	7937.7	7937.7	7937.7	7937.7	7937.7	7937.7	7937.7
2.5°	6683.7	6941.7	7100.5	7400.1	7706.8	7943.1	8239.1	8504.3	8614.4	8672.1
5°	5155.3	5514.4	5819.3	6275.8	6699.9	7216.0	7739.3	8356.4	8592.7	8654.1
7.5°	3617.9	3984.2	4303.6	4832.3	5436.8	6127.9	6911.0	7694.1	8038.8	8136.2
10°	2612.9	3004.4	3394.1	3922.8	4487.7	5236.5	6052.1	7021.1	7418.1	7493.9
12.5°	1649.2	2069.7	2703.1	3356.3	3953.5	4556.2	5409.7	6463.5	6902.0	7041.0
15°	956.4	1270.3	1748.5	2600.2	3359.9	4157.4	5088.6	6254.2	6745.0	6887.6
17.5°	640.6	748.9	1077.3	1728.6	2731.9	3789.3	5007.4	6425.6	6968.8	7151.0
20°	539.6	588.3	703.8	1053.8	2104.0	3460.9	5029.0	6891.2	7603.9	7831.3
22.5°	474.6	519.7	593.7	757.9	1468.8	3053.2	5131.9	7557.0	8477.3	8767.8
25°	418.6	463.8	528.7	628.0	987.0	2582.2	5357.4	8531.4	9634.0	9953.3
27.5°	371.7	413.2	469.2	554.0	759.7	2057.1	5557.7	9480.6	10689.5	10949.4
30°	328.4	362.7	416.8	481.8	631.6	1586.1	5658.7	10310.6	11458.2	11747.0
32.5°	285.1	317.6	369.9	422.3	519.7	1209.0	5588.3	10920.5	12205.2	12389.3
35°	243.6	277.9	321.2	369.9	449.3	976.2	5236.5	11606.2	12979.3	13123.7
37.5°	209.3	238.2	283.3	321.2	406.0	781.4	4810.7	12223.3	13847.3	14054.8
40°	176.8	205.7	250.8	285.1	373.5	615.3	4426.3	12909.0	14762.1	15018.4
42.5°	144.4	178.6	218.3	274.3	321.2	469.2	3960.7	13464.8	15449.6	15770.8
45°	115.5	153.4	196.7	272.5	279.7	357.3	3511.4	13897.8	16057.8	16346.5
47.5°	92.0	129.9	189.5	254.4	229.2	283.3	3255.2	14350.7	16563.0	16793.9
50°	74.0	108.3	198.5	223.8	191.3	240.0	3248.0	14855.9	16824.6	16978.0
52.5°	59.5	88.4	167.8	171.4	162.4	211.1	3442.9	15424.4	17091.7	17218.0
55°	50.5	74.0	110.1	126.3	146.2	191.3	3589.0	16299.6	17728.6	17847.7
57.5°	39.7	63.2	84.8	101.1	129.9	175.0	3608.8	16974.4	18535.3	18612.8
59°	34.3	54.1	75.8	90.2	119.1	164.2	3527.6	17015.9	18587.6	18712.1
60°	28.9	48.7	66.8	84.8	110.1	155.2	3439.2	16714.5	18392.7	18531.7
62.5°	21.7	37.9	48.7	68.6	90.2	133.5	3020.7	15662.6	17647.4	17744.9
65°	14.4	27.1	36.1	50.5	70.4	115.5	2461.3	14298.4	16496.2	16714.5
67.5°	9.0	19.8	28.9	37.9	57.7	97.4	1753.9	12261.2	14884.8	15025.6
70°	5.4	12.6	21.7	30.7	45.1	77.6	1041.2	9691.7	12383.8	12412.7
72.5°	3.6	9.0	14.4	21.7	36.1	70.4	505.3	6317.3	9042.1	9386.7
75°	1.8	5.4	9.0	16.2	28.9	57.7	241.8	4220.6	6579.0	6678.2
77.5°	0.0	1.8	5.4	10.8	21.7	45.1	140.8	2771.6	4485.8	4588.7
80°	0.0	0.0	3.6	9.0	16.2	28.9	84.8	1634.8	2717.5	2768.0
82.5°	0.0	0.0	1.8	7.2	10.8	21.7	43.3	718.2	1779.2	1797.2
85°	0.0	0.0	1.8	7.2	9.0	14.4	16.2	97.4	790.4	804.8
87.5°	0.0	0.0	1.8	9.0	9.0	9.0	9.0	5.4	66.8	83.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)