

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: P458672

Luminaire Tested: **GALN-SA2B-735-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458672
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7655 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

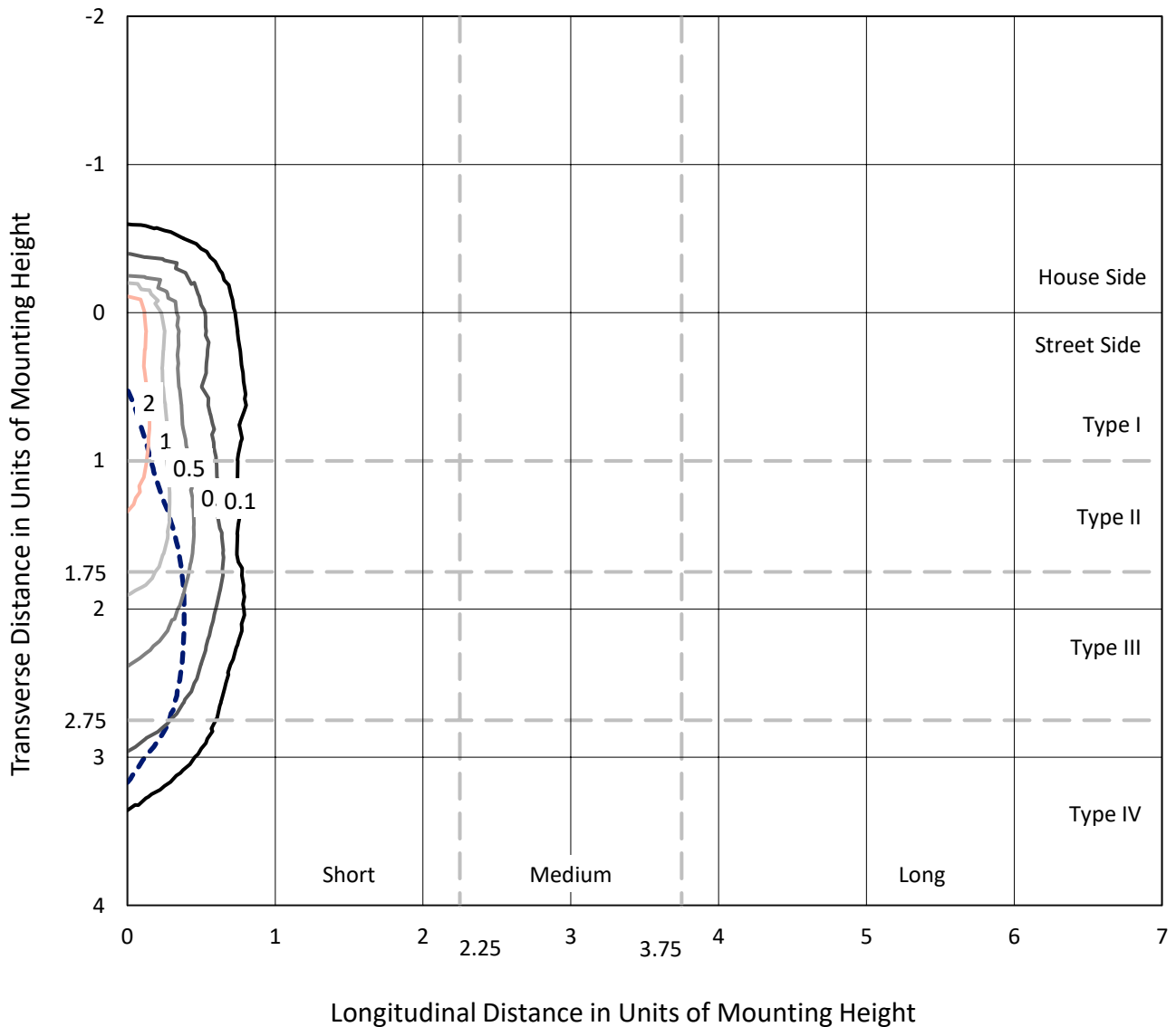
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

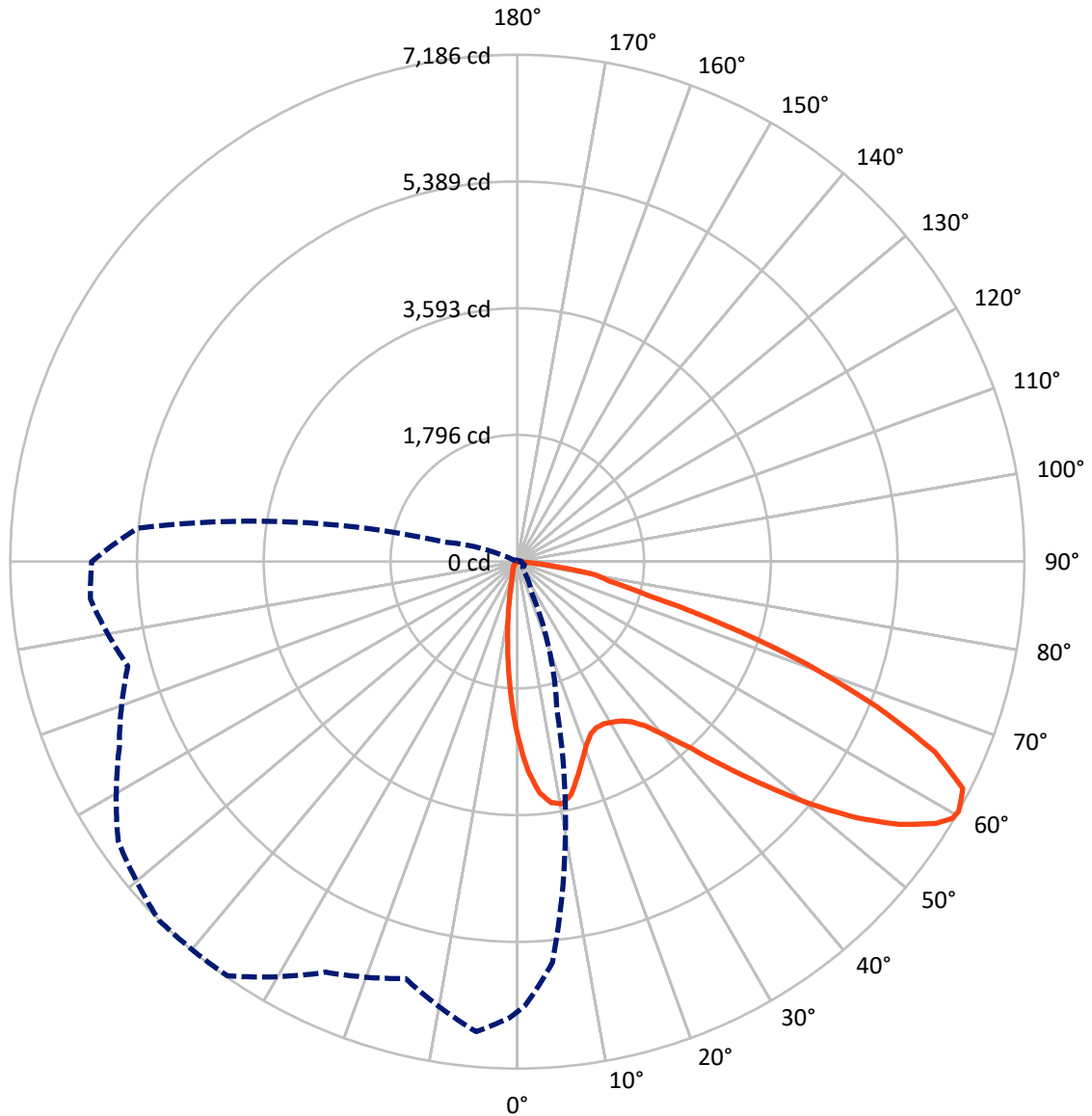
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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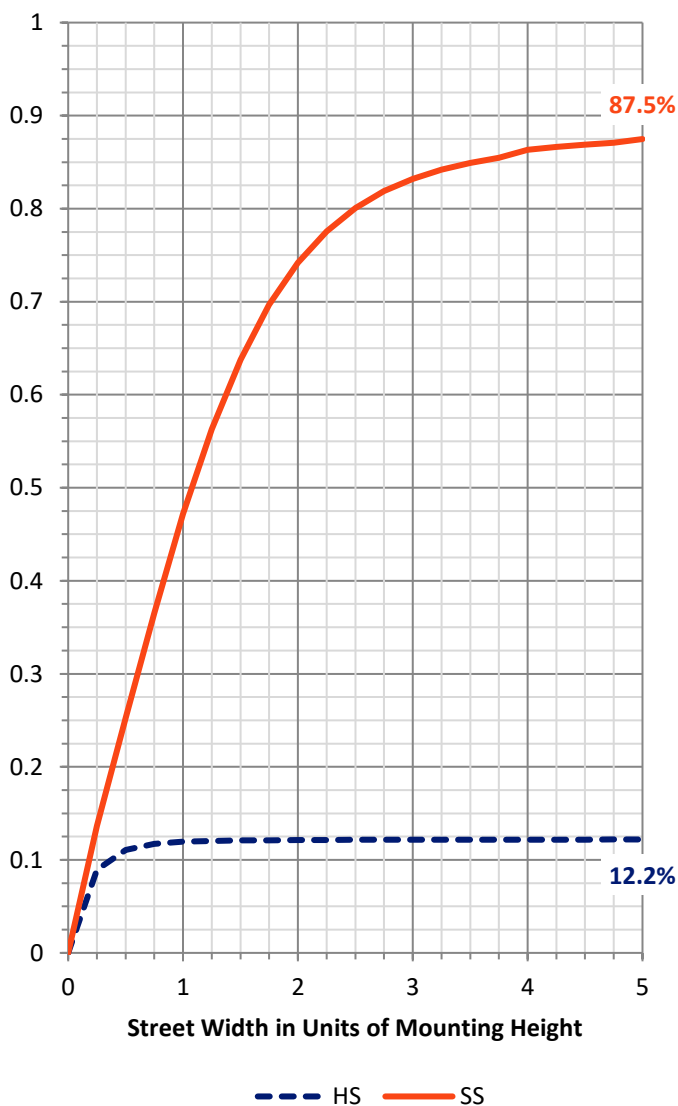
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	944.2	0.0	944.2
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	6710.8	0.0	6710.8
	% Fixture	87.7	0.0	87.7
Total	Lumens	7655.0	0.0	7655.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.2	2.5
10°-20°	373.7	4.9
20°-30°	548.0	7.2
30°-40°	814.9	10.6
40°-50°	1186.0	15.5
50°-60°	1710.3	22.3
60°-70°	1881.2	24.6
70°-80°	842.6	11.0
80°-90°	110.1	1.4
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°	7655.0	100.0
0°-180°	7655.0	100.0

Coefficient of Utilization



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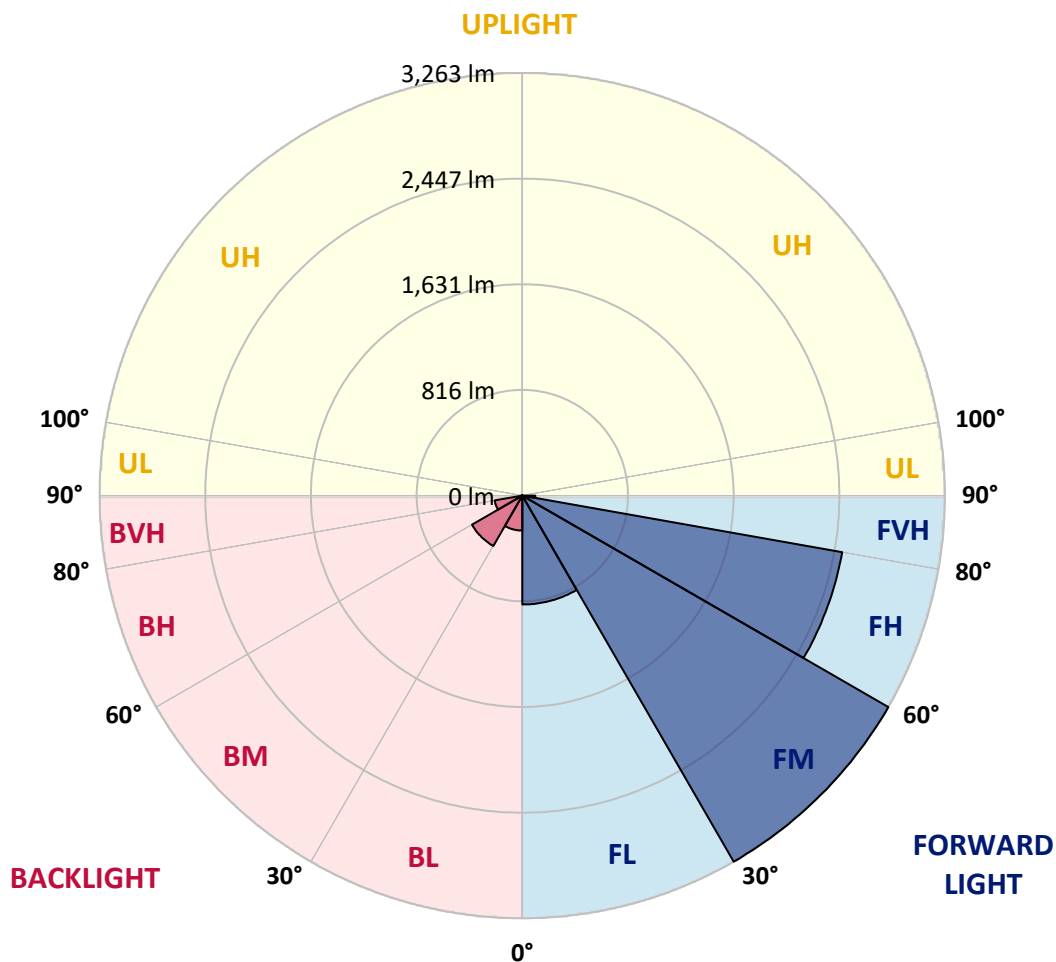
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	840.1	11.0			
FM (30°-60°)	3262.8	42.6			
FH (60°-80°)	2507.2	32.8			G2/5000
FVH (80°-90°)	100.7	1.3			G2/225
BL (0°-30°)	269.8	3.5	B1/500		
BM (30°-60°)	448.5	5.9	B1/1000		
BH (60°-80°)	216.5	2.8	B1/500		G1/500
BVH (80°-90°)	9.4	0.1			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1
2.5°	2781.5	2769.2	2741.3	2656.4	2582.5	2485.9	2388.1	2311.3	2264.2	2177.5	2137.9
5°	2694.8	2700.6	2619.7	2445.1	2250.8	2118.1	1973.2	1858.0	1731.1	1650.8	1566.5
7.5°	2468.4	2456.8	2368.9	2125.7	1889.4	1697.4	1514.1	1365.1	1271.4	1196.4	1133.5
10°	2274.6	2265.9	2153.6	1840.5	1586.8	1443.1	1319.2	1188.8	1088.1	978.2	890.3
12.5°	2153.0	2133.2	2004.1	1677.0	1470.5	1336.6	1201.6	1066.0	927.0	815.8	709.3
15°	2112.3	2083.8	1940.0	1620.6	1396.0	1226.1	1056.7	900.8	740.8	618.0	537.7
17.5°	2186.2	2139.1	1986.0	1610.7	1306.9	1081.7	873.4	670.3	503.9	410.2	360.8
20°	2355.5	2301.4	2102.4	1600.8	1208.0	920.0	663.9	473.7	348.6	297.3	270.0
22.5°	2606.9	2532.4	2274.6	1616.5	1116.7	762.3	479.5	334.6	277.0	245.0	225.8
25°	2908.9	2846.6	2492.8	1672.4	1044.5	638.3	370.7	273.5	233.3	213.6	199.0
27.5°	3240.0	3140.5	2775.1	1739.3	978.8	542.3	325.3	244.4	207.7	189.7	182.1
30°	3475.7	3398.3	3011.3	1785.8	896.7	470.2	297.3	240.9	208.3	186.8	172.8
32.5°	3708.4	3609.5	3209.2	1807.4	836.8	420.1	257.2	210.1	182.7	171.7	157.7
35°	3957.5	3853.9	3406.4	1795.7	792.0	387.0	233.3	187.4	156.5	137.9	123.9
37.5°	4209.4	4100.0	3602.5	1753.8	764.0	373.6	214.7	178.1	147.8	128.6	113.5
40°	4508.5	4362.5	3786.4	1719.5	734.9	366.6	202.5	172.2	141.4	121.0	105.9
42.5°	4752.9	4613.9	3960.4	1701.5	715.2	350.3	202.5	167.6	137.3	114.6	98.9
45°	4984.5	4840.2	4148.3	1716.0	707.0	329.9	204.8	167.0	134.4	110.0	94.3
47.5°	5178.3	5053.2	4341.5	1770.7	696.5	307.8	192.6	175.2	132.7	105.9	89.6
50°	5407.0	5285.9	4597.0	1881.3	677.9	285.7	177.5	188.5	132.1	102.4	85.5
52.5°	5729.4	5598.4	4949.6	2007.0	648.2	252.0	163.5	186.8	129.8	96.6	81.5
55°	6123.3	6017.4	5358.1	2157.7	607.5	214.1	141.4	165.8	122.8	86.7	74.5
57.5°	6375.8	6285.6	5664.2	2222.8	545.2	175.2	124.5	139.1	112.3	77.4	66.3
59°	6405.5	6324.1	5728.2	2201.3	504.5	160.0	116.4	119.3	109.4	72.2	61.7
60°	6380.5	6296.1	5702.6	2159.4	466.7	149.5	109.4	105.9	110.0	69.2	58.2
62.5°	6219.9	6075.6	5454.1	1947.0	407.9	137.3	97.2	86.7	97.2	62.3	51.8
65°	5909.7	5693.3	4962.4	1647.9	384.6	130.3	82.6	72.7	73.9	54.7	44.8
67.5°	5368.0	5095.1	4307.8	1338.9	374.7	130.9	69.8	65.2	57.0	46.6	39.6
70°	4511.4	4239.1	3456.5	1101.5	370.1	130.9	59.4	55.9	47.7	39.0	34.3
72.5°	3196.9	2903.7	2331.7	865.3	333.4	130.3	50.6	50.6	39.0	32.6	27.9
75°	1806.2	1808.5	1465.8	612.2	277.0	107.7	40.7	40.2	28.5	25.0	20.9
77.5°	1052.7	1034.0	988.1	263.0	128.6	48.9	28.5	24.4	19.8	18.0	15.1
80°	541.2	445.2	433.5	95.4	46.0	30.8	19.8	14.0	12.8	11.6	10.5
82.5°	160.0	160.6	143.1	38.4	25.6	20.4	9.9	7.6	7.0	6.4	6.4
85°	11.1	7.0	8.1	11.6	15.7	8.1	0.6	1.7	1.7	2.3	2.9
87.5°	1.2	0.6	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1
2.5°	2094.2	2119.8	2072.1	2073.3	2033.7	2046.5	2000.0	2015.1	1987.8	2008.7	2070.4
5°	1575.8	1581.6	1543.2	1531.0	1536.8	1560.6	1570.0	1527.5	1545.5	1510.0	1507.7
7.5°	1110.3	1117.2	1095.1	1092.2	1134.1	1124.2	1142.3	1098.6	1057.3	1075.3	1042.2
10°	862.4	833.3	787.9	775.1	766.9	772.2	772.2	732.6	726.8	711.1	734.9
12.5°	680.8	645.3	602.3	544.1	529.5	528.4	506.8	471.9	460.9	447.5	467.3
15°	494.6	480.1	444.0	411.4	378.2	371.8	336.9	308.4	270.6	265.3	263.6
17.5°	348.0	326.4	325.9	307.2	288.0	275.2	242.7	210.1	195.5	193.8	193.8
20°	260.7	253.1	240.9	238.6	232.8	218.2	189.1	171.7	164.7	165.3	167.6
22.5°	219.4	214.1	203.1	197.8	195.5	182.7	161.2	149.5	146.1	146.1	146.6
25°	196.1	191.4	179.2	171.1	168.2	158.9	142.0	133.3	130.3	130.3	130.3
27.5°	178.6	172.8	160.0	153.0	147.8	137.3	126.9	118.1	115.2	115.2	115.8
30°	166.4	160.0	148.4	139.1	130.9	121.6	112.9	105.3	101.8	101.3	101.8
32.5°	150.1	144.3	132.7	126.9	117.5	106.5	99.5	92.5	89.0	89.6	89.0
35°	117.0	115.2	107.1	108.8	103.6	94.3	87.9	80.3	76.2	75.6	76.8
37.5°	106.5	99.5	90.2	90.8	89.0	85.5	75.1	66.9	64.0	64.0	64.6
40°	98.3	91.4	80.9	75.6	76.2	76.2	65.2	56.4	53.5	53.0	54.1
42.5°	91.4	84.4	72.7	64.0	61.7	64.6	55.3	46.6	43.6	42.5	43.6
45°	86.7	79.1	65.8	55.9	48.9	52.4	45.4	38.4	34.9	34.9	34.3
47.5°	82.0	75.1	60.5	48.3	40.7	39.0	37.2	30.8	27.3	26.8	27.3
50°	78.0	71.0	54.7	41.9	34.3	30.3	30.3	24.4	22.1	20.9	21.5
52.5°	73.9	66.3	49.5	37.2	29.7	24.4	21.5	19.8	18.0	17.5	18.0
55°	68.1	60.5	44.2	32.0	25.6	20.4	16.9	16.3	15.1	14.0	15.1
57.5°	61.1	54.1	39.0	27.3	20.4	15.7	14.0	13.4	12.2	11.6	11.6
59°	57.0	50.6	36.1	23.9	18.0	14.0	12.8	12.2	11.1	9.9	10.5
60°	54.7	49.5	34.3	22.1	16.3	12.8	11.6	11.1	9.9	9.3	9.9
62.5°	48.3	44.2	30.3	18.0	12.8	9.3	8.1	8.7	8.1	7.6	8.1
65°	42.5	39.0	25.6	14.0	9.9	6.4	5.8	7.6	7.0	6.4	7.0
67.5°	37.8	33.8	21.5	10.5	7.0	3.5	4.1	6.4	6.4	5.8	6.4
70°	32.6	29.1	17.5	7.6	3.5	1.7	2.9	4.7	5.8	5.2	5.8
72.5°	26.8	22.7	13.4	5.2	1.7	0.0	1.7	4.1	5.8	5.2	5.8
75°	20.9	16.9	9.9	2.9	0.0	0.0	0.6	3.5	5.8	5.2	5.8
77.5°	15.1	12.2	5.8	0.6	0.0	0.0	0.6	3.5	5.8	5.2	5.8
80°	9.9	8.7	2.3	0.0	0.0	0.0	0.6	3.5	5.8	5.8	6.4
82.5°	6.4	4.7	0.0	0.0	0.0	0.0	1.2	4.7	6.4	7.0	7.0
85°	2.9	0.0	0.0	0.0	0.0	0.0	2.3	5.8	7.6	7.6	7.6
87.5°	0.0	0.0	0.0	0.0	0.0	1.2	4.1	7.0	8.7	8.7	8.7
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1
2.5°	2080.9	2117.5	2169.3	2249.0	2313.6	2415.5	2493.4	2599.9	2707.6	2740.2	2790.8
5°	1531.6	1578.7	1696.2	1803.3	1870.8	2086.1	2222.3	2437.0	2629.6	2722.1	2822.8
7.5°	1063.7	1119.6	1209.2	1358.7	1500.7	1675.9	1895.8	2141.4	2423.6	2555.7	2697.7
10°	746.6	816.4	942.7	1065.5	1244.1	1410.5	1627.6	1898.7	2210.0	2366.0	2544.1
12.5°	471.3	533.6	700.6	838.5	1061.4	1254.6	1454.7	1700.3	2061.1	2221.1	2407.9
15°	269.4	321.8	399.8	576.7	824.0	1079.4	1329.1	1614.2	1984.8	2182.1	2384.0
17.5°	200.8	214.7	249.6	349.7	574.9	873.4	1213.3	1588.0	2036.6	2268.2	2498.7
20°	168.8	178.1	194.4	233.9	366.6	672.7	1100.4	1592.7	2204.2	2495.2	2714.0
22.5°	151.3	157.1	170.5	196.1	250.2	490.0	968.3	1620.0	2407.3	2773.9	3026.4
25°	132.7	140.2	151.9	174.0	208.3	339.8	837.9	1681.1	2691.9	3127.7	3365.1
27.5°	118.1	125.1	136.7	157.1	182.7	259.5	686.1	1733.5	2992.1	3483.8	3678.2
30°	103.6	110.6	122.2	138.5	161.8	210.1	522.5	1764.3	3283.6	3750.9	3900.5
32.5°	91.4	97.2	108.2	122.8	142.0	178.1	412.0	1732.3	3506.5	3993.6	4093.6
35°	79.1	86.1	95.4	108.8	125.7	151.9	342.7	1621.7	3698.0	4243.2	4279.3
37.5°	66.3	74.5	84.4	96.6	110.0	139.7	275.2	1499.5	3902.8	4554.5	4495.2
40°	55.9	63.4	72.7	86.1	98.3	128.0	211.8	1369.2	4123.9	4846.6	4730.8
42.5°	45.4	53.5	64.6	76.8	97.2	111.7	164.1	1234.2	4322.3	5100.9	4943.8
45°	36.1	43.1	54.7	70.4	96.6	96.0	126.9	1100.9	4471.9	5282.5	5102.7
47.5°	28.5	34.3	46.0	68.7	89.0	81.5	101.8	1018.3	4629.0	5446.0	5224.3
50°	22.7	28.5	39.6	71.6	78.0	69.8	85.5	1031.7	4780.9	5529.2	5274.3
52.5°	19.2	25.0	34.3	56.4	59.9	61.1	75.1	1093.4	4977.0	5618.2	5373.8
55°	16.9	22.1	29.1	39.6	46.6	54.7	68.7	1138.2	5239.4	5809.1	5593.2
57.5°	13.4	19.2	26.2	33.8	38.4	47.7	63.4	1141.7	5476.8	6054.1	5884.7
59°	12.2	17.5	24.4	32.0	34.3	43.1	59.9	1112.0	5485.5	6090.7	6018.6
60°	11.1	16.9	23.3	29.7	32.6	40.7	57.0	1077.7	5406.4	6032.5	6073.8
62.5°	9.3	14.5	20.4	23.9	27.9	33.8	49.5	953.1	5022.9	5768.9	5971.4
65°	8.1	12.8	17.5	19.8	23.3	29.1	43.6	762.9	4599.3	5411.6	5678.1
67.5°	7.6	11.6	15.1	16.9	20.4	26.8	39.0	538.8	4050.6	4958.3	5237.7
70°	7.0	11.1	13.4	15.7	18.0	22.7	33.2	314.2	3120.1	4163.5	4458.5
72.5°	7.0	10.5	11.6	13.4	15.7	20.4	30.8	169.9	2133.2	3176.0	3557.1
75°	7.0	9.9	10.5	11.6	14.0	18.6	27.3	89.0	1379.1	2206.6	2723.3
77.5°	7.0	9.3	10.5	11.1	13.4	16.3	23.9	55.9	918.8	1545.5	1840.5
80°	7.6	9.3	9.9	11.1	12.8	15.1	19.8	37.2	540.0	929.9	1120.2
82.5°	8.1	9.3	10.5	11.6	13.4	14.5	17.5	23.3	249.1	615.1	695.9
85°	8.7	9.9	11.1	12.2	14.0	14.5	16.3	16.9	40.7	277.6	375.3
87.5°	9.3	10.5	11.6	12.8	15.1	15.1	15.1	15.1	14.0	29.7	75.6
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°	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1	2530.1
2.5°	2854.8	2920.5	2966.5	2978.1	2945.0	2929.8	2888.0	2822.8	2783.2	2781.5
5°	3008.4	3162.6	3269.7	3287.7	3223.7	3115.5	2986.9	2821.0	2723.9	2694.8
7.5°	2982.2	3252.2	3424.5	3449.5	3341.8	3135.3	2886.2	2619.1	2513.2	2468.4
10°	2874.6	3203.9	3450.1	3489.6	3345.9	3055.0	2738.4	2440.5	2309.0	2274.6
12.5°	2782.6	3115.5	3334.3	3389.0	3280.2	2989.8	2650.0	2325.8	2185.0	2153.0
15°	2742.5	3010.7	3144.6	3172.5	3154.5	2949.1	2640.6	2308.4	2147.2	2112.3
17.5°	2782.6	2921.7	2938.6	2967.1	3007.2	2945.0	2730.3	2403.2	2229.2	2186.2
20°	2888.0	2844.3	2774.5	2786.7	2878.6	2961.9	2889.7	2613.3	2401.5	2355.5
22.5°	3067.2	2825.1	2666.8	2656.4	2772.7	3018.3	3123.6	2897.8	2652.3	2606.9
25°	3287.1	2873.4	2627.3	2604.6	2731.4	3100.9	3377.9	3246.4	2978.1	2908.9
27.5°	3526.9	2973.5	2627.3	2605.2	2727.9	3174.2	3595.5	3554.8	3315.6	3240.0
30°	3658.4	3056.1	2665.1	2640.1	2771.0	3216.7	3711.9	3828.9	3569.4	3475.7
32.5°	3775.9	3170.8	2739.0	2691.9	2861.2	3279.6	3816.1	4061.6	3771.3	3708.4
35°	3884.2	3293.5	2840.8	2786.1	2979.9	3365.7	3931.3	4306.0	4052.3	3957.5
37.5°	4003.4	3436.1	2999.7	2953.1	3178.3	3533.3	4068.0	4627.2	4328.7	4209.4
40°	4133.2	3601.4	3260.9	3241.2	3493.7	3723.0	4240.9	4970.0	4644.1	4508.5
42.5°	4265.3	3791.6	3581.0	3613.6	3851.0	3988.9	4418.3	5233.6	4902.5	4752.9
45°	4385.2	4034.9	3997.0	4158.2	4267.6	4248.4	4549.9	5419.2	5127.7	4984.5
47.5°	4536.5	4389.2	4500.4	4748.9	4751.8	4530.6	4649.4	5571.1	5321.4	5178.3
50°	4705.8	4807.6	5150.4	5403.5	5335.4	4808.2	4765.7	5750.9	5521.6	5407.0
52.5°	4901.9	5276.1	5750.9	6031.9	5873.1	5110.8	4959.5	5945.2	5839.3	5729.4
55°	5130.0	5595.5	6349.7	6573.7	6413.7	5486.7	5253.9	6208.8	6198.4	6123.3
57.5°	5387.8	5933.0	6696.5	6999.6	6857.1	5927.8	5665.3	6457.3	6417.7	6375.8
59°	5591.4	6106.4	6849.5	7163.7	7077.6	6236.8	5941.7	6612.1	6468.4	6405.5
60°	5714.8	6224.0	6906.0	7185.8	7166.1	6420.6	6116.9	6687.7	6467.8	6380.5
62.5°	6080.8	6429.4	6884.4	7087.5	7164.9	6773.3	6630.7	6771.0	6347.9	6219.9
65°	6211.2	6361.3	6527.7	6502.7	6569.0	6755.2	6958.9	6679.6	6091.9	5909.7
67.5°	5957.5	5614.7	5673.5	5506.5	5473.9	6005.8	6825.6	6232.7	5590.9	5368.0
70°	5021.8	4301.4	4271.7	4348.5	4137.9	4862.3	6129.1	5372.1	4764.0	4511.4
72.5°	3952.8	3039.8	2789.6	3072.4	3066.0	3709.6	5091.6	3812.0	3218.5	3196.9
75°	3108.5	2116.4	1857.4	1903.4	1991.8	2685.5	4055.2	2420.7	1981.9	1806.2
77.5°	2086.7	1499.5	1398.9	1342.4	1437.9	1724.2	2565.6	1312.8	1111.4	1052.7
80°	1202.8	1089.3	1237.1	1123.1	1174.3	1086.4	1276.1	602.3	499.8	541.2
82.5°	782.7	620.3	661.0	491.1	671.5	677.3	409.7	178.1	150.7	160.0
85°	489.4	290.9	163.5	116.4	231.6	425.9	128.0	11.1	12.8	11.1
87.5°	126.9	48.3	20.4	30.3	37.2	33.2	29.7	1.7	0.6	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)