

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: P652233

Luminaire Tested: **GALN-SA2B-840-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652233
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-840-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5320.1 lumens
Efficiency: N/A
Efficacy: 64.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

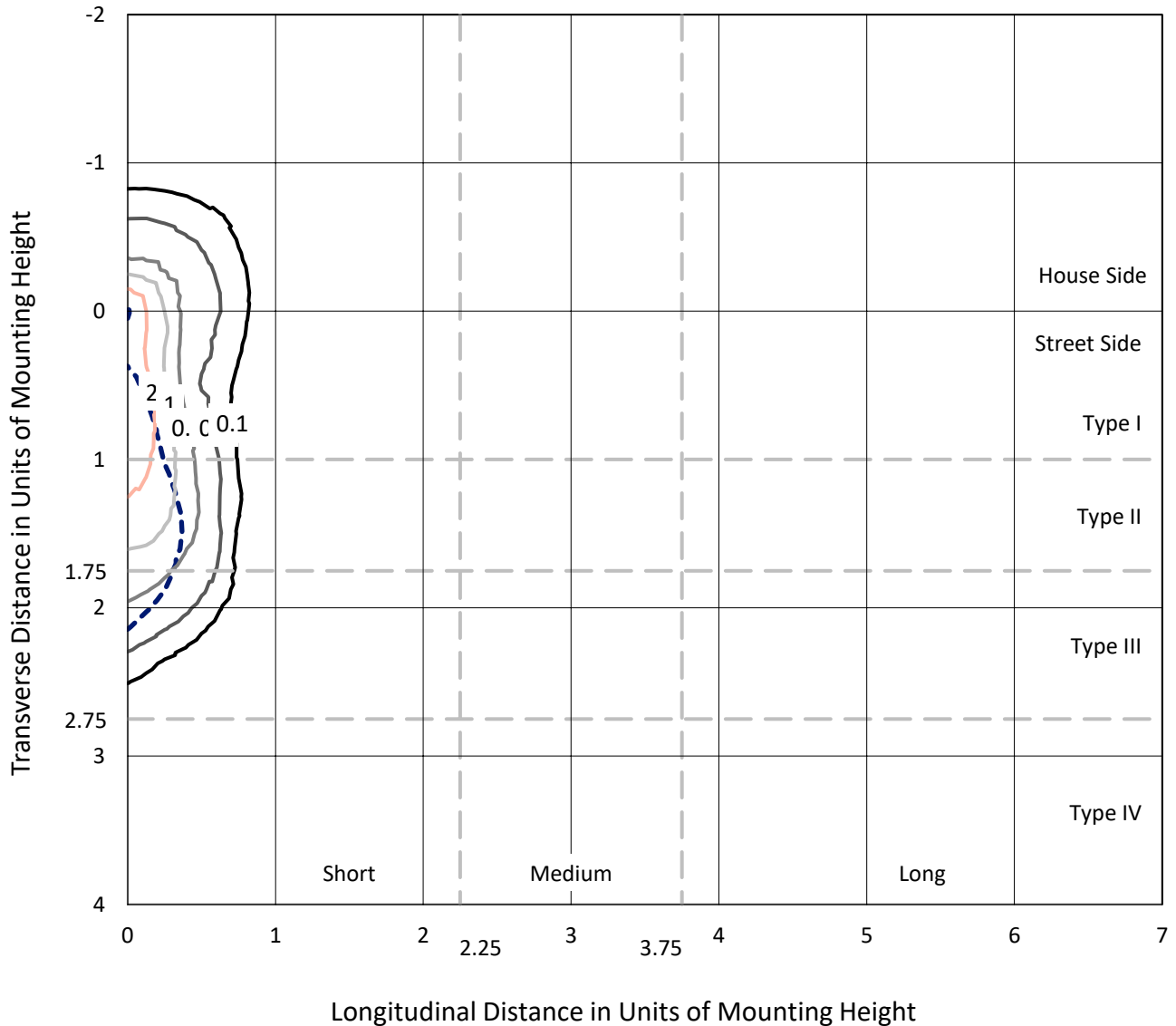
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

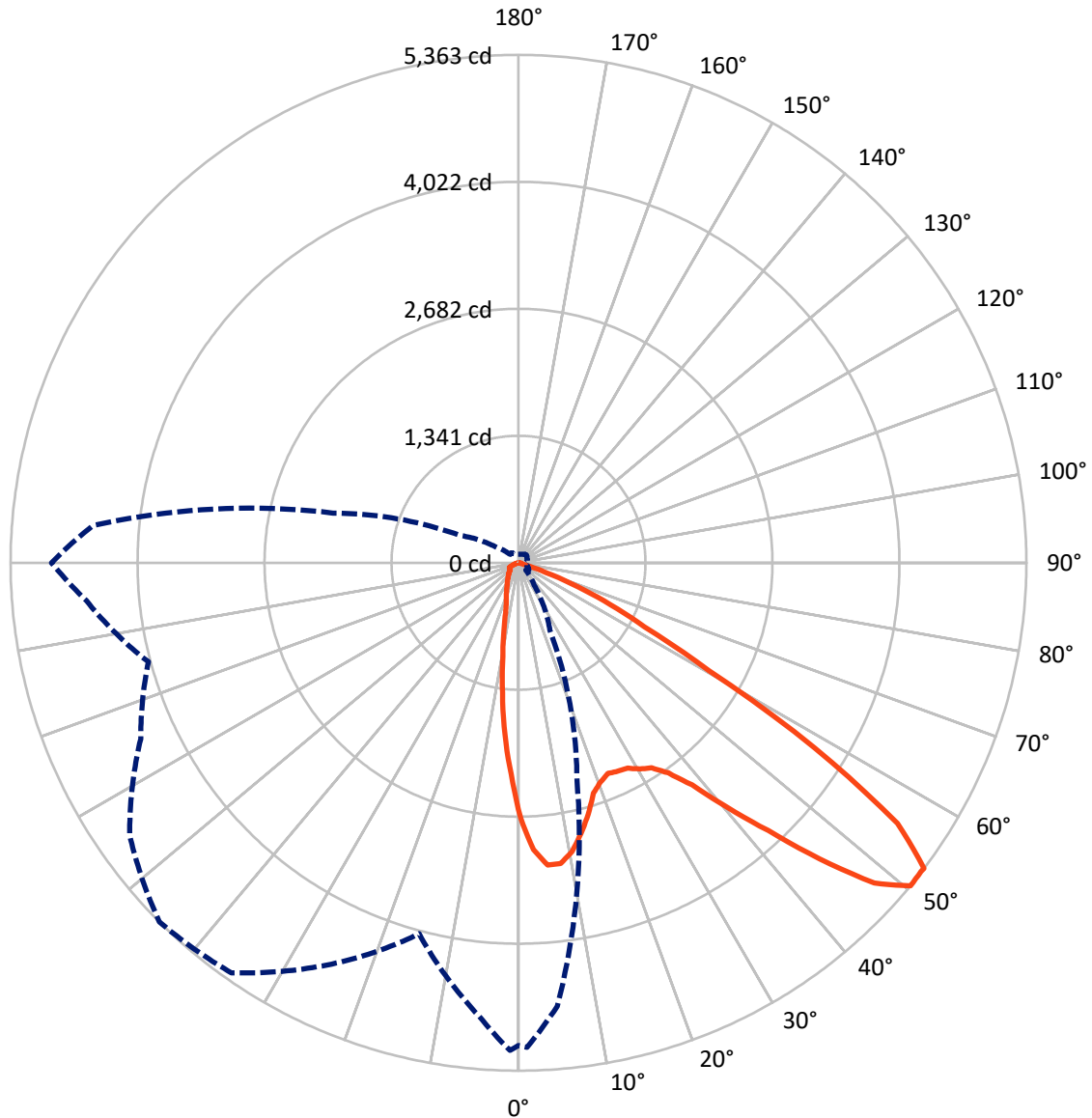
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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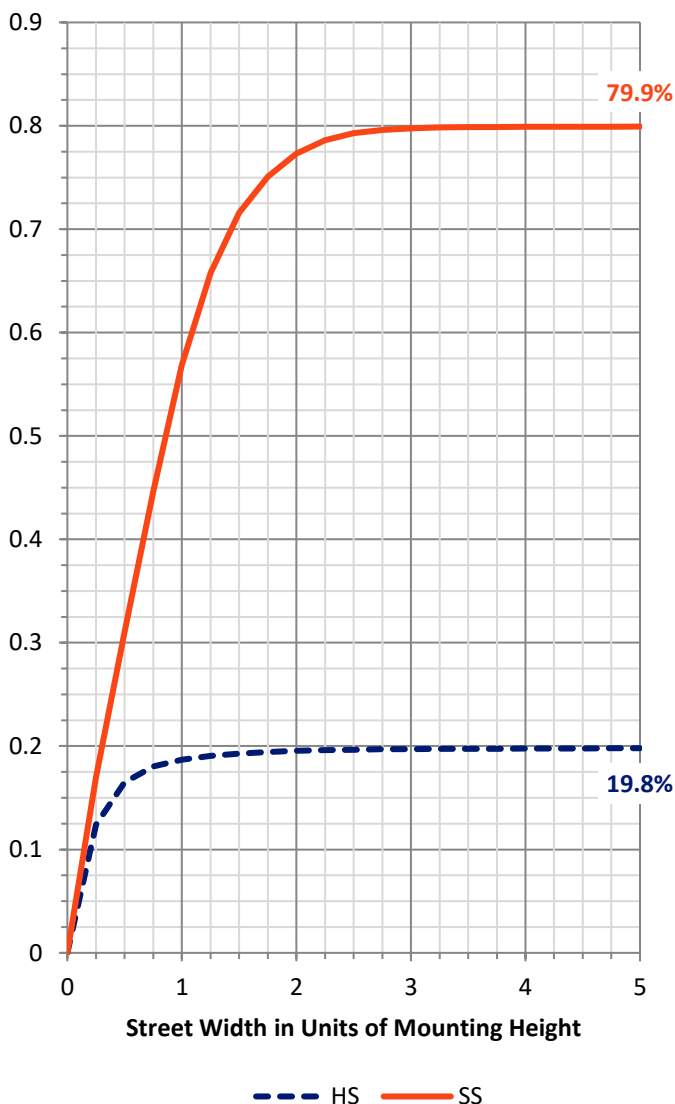
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1065.6	0.0	1065.6
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	4254.5	0.0	4254.5
	% Fixture	80.0	0.0	80.0
Total	Lumens	5320.1	0.0	5320.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.7	3.7
10°-20°	390.8	7.3
20°-30°	587.2	11.0
30°-40°	881.3	16.6
40°-50°	1238.6	23.3
50°-60°	1336.1	25.1
60°-70°	620.3	11.7
70°-80°	58.4	1.1
80°-90°	10.8	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°	5320.1	100.0
0°-180°	5320.1	100.0

Coefficient of Utilization



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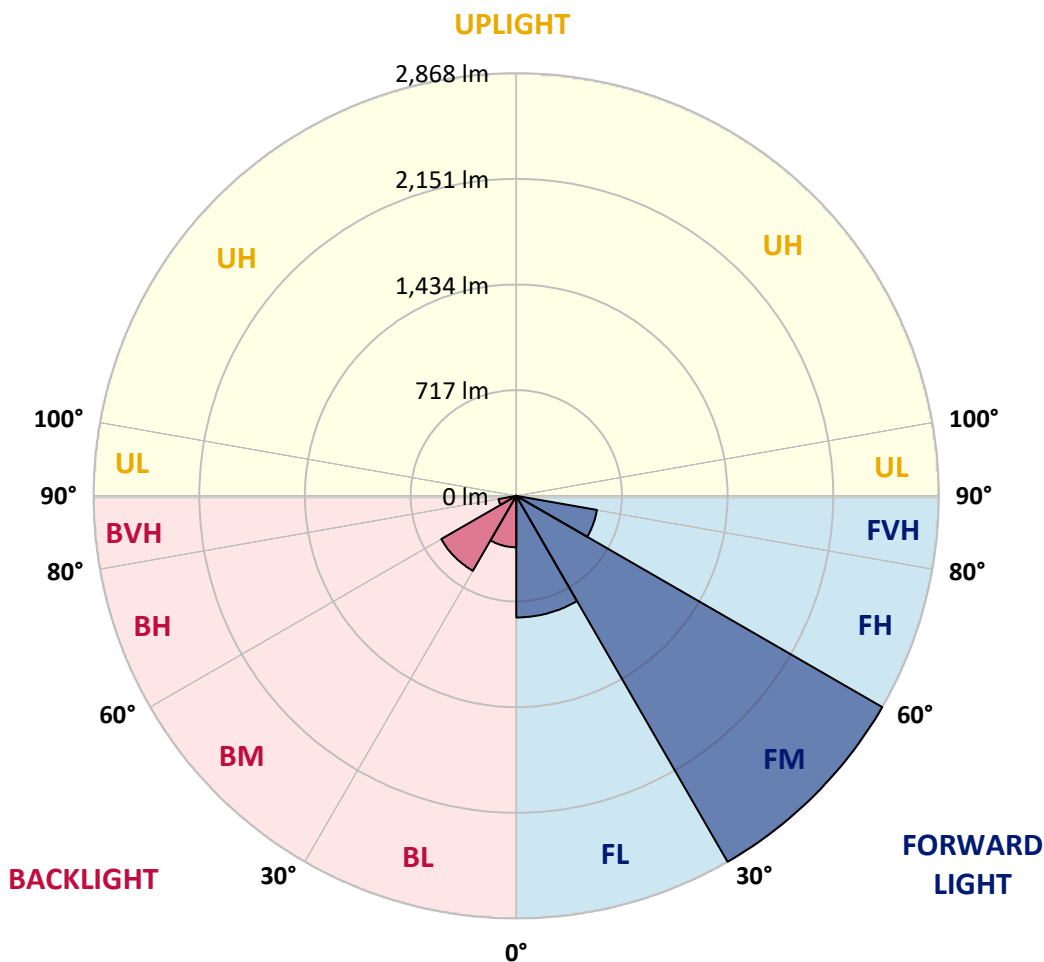
CATALOG NUMBER: GALN-SA2B-840-U-SLR-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	825.4	15.5			
FM (30°-60°)	2868.0	53.9			
FH (60°-80°)	556.3	10.5			G0/660
FVH (80°-90°)	4.8	0.1			G0/10
BL (0°-30°)	349.3	6.6	B1/500		
BM (30°-60°)	588.1	11.1	B1/1000		
BH (60°-80°)	122.3	2.3	B1/500		G1/500
BVH (80°-90°)	5.9	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2698.0	2698.0	2698.0	2698.0	2698.0	2698.0	2698.0	2698.0	2698.0	2698.0	2698.0
2.5°	2804.6	2761.3	2706.4	2661.1	2593.5	2457.3	2420.4	2376.1	2339.1	2289.5	2219.8
5°	2550.2	2536.5	2511.1	2340.2	2216.6	2052.0	1916.9	1859.9	1784.9	1723.7	1679.4
7.5°	2356.0	2301.1	2220.9	2048.8	1851.5	1675.2	1525.2	1437.7	1338.5	1304.6	1244.5
10°	2148.1	2160.7	2042.5	1800.7	1562.2	1419.7	1326.8	1242.4	1152.7	1093.6	1008.0
12.5°	2081.6	2040.4	1949.6	1650.9	1447.2	1314.1	1201.2	1096.7	1001.7	906.7	824.3
15°	2124.9	2061.5	1934.8	1619.2	1358.5	1192.8	1051.3	909.9	822.2	700.9	615.4
17.5°	2280.0	2229.3	2059.4	1653.0	1313.1	1076.6	866.7	720.9	586.8	477.1	433.9
20°	2538.6	2466.8	2253.6	1696.3	1245.5	936.3	703.0	523.5	396.9	350.4	326.1
22.5°	2792.0	2752.8	2483.7	1779.6	1185.4	811.7	527.8	352.5	296.6	288.1	272.3
25°	3274.3	3157.2	2835.2	1930.6	1139.0	694.6	398.0	283.9	251.2	244.9	247.0
27.5°	3561.5	3463.2	3160.3	2030.8	1087.2	604.8	336.7	260.7	238.6	224.8	219.6
30°	3837.0	3722.9	3321.9	2090.0	976.4	509.8	298.7	250.2	244.9	224.8	218.5
32.5°	4049.1	3937.2	3555.1	2178.7	931.0	448.6	245.9	195.3	181.6	179.5	198.5
35°	4374.2	4255.0	3754.6	2227.2	896.2	417.0	213.2	174.2	158.4	152.0	153.1
37.5°	4677.1	4595.9	3939.3	2246.2	859.2	407.5	191.1	156.3	142.5	138.3	137.3
40°	4930.5	4749.0	4114.5	2266.2	843.4	389.5	177.4	142.5	133.0	126.7	126.7
42.5°	5046.6	4861.9	4310.9	2254.6	839.1	361.0	177.4	130.9	123.5	117.2	116.1
45°	5021.3	4946.3	4398.5	2249.4	839.1	332.5	161.5	127.7	117.2	108.7	106.6
47.5°	5086.7	4988.6	4508.3	2271.5	822.2	312.4	136.2	134.1	110.8	100.2	98.1
50°	5098.3	5117.3	4699.3	2386.6	785.3	287.1	106.6	132.0	106.6	90.7	88.6
52°	5174.3	5056.1	4757.4	2447.8	746.3	268.1	89.7	112.9	102.3	84.4	82.3
52.5°	5069.8	5146.9	4771.1	2470.0	750.5	255.4	86.5	110.8	100.2	84.4	79.1
55°	4952.6	5026.6	4715.2	2517.5	688.2	200.6	67.5	80.2	90.7	73.9	70.7
57.5°	4304.6	4379.5	4097.7	2305.3	560.5	141.5	55.9	60.1	80.2	68.6	65.4
60°	3826.4	3772.6	3439.0	1923.2	398.0	79.1	44.3	46.4	87.6	63.3	62.3
62.5°	3497.0	3382.0	2874.3	1485.1	242.8	52.8	34.8	35.9	67.5	59.1	59.1
65°	2587.2	2458.4	1909.5	898.3	119.3	36.9	26.4	28.5	42.2	50.6	50.6
67.5°	1476.7	1427.1	922.6	405.4	49.6	23.2	20.0	22.2	32.7	41.1	39.0
70°	678.7	609.1	354.6	85.5	23.2	15.8	15.8	17.9	26.4	30.6	28.5
72.5°	198.5	187.9	86.5	13.7	9.5	9.5	10.6	13.7	20.0	23.2	21.1
75°	14.8	9.5	6.3	4.2	4.2	6.3	8.4	13.7	20.0	22.2	17.9
77.5°	1.1	2.1	1.1	1.1	3.2	6.3	9.5	16.9	26.4	27.4	20.0
80°	1.1	1.1	0.0	1.1	3.2	6.3	10.6	19.0	29.5	31.7	16.9
82.5°	0.0	0.0	0.0	1.1	4.2	8.4	12.7	20.0	27.4	33.8	17.9
85°	0.0	0.0	0.0	1.1	6.3	11.6	14.8	5.3	3.2	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2698.0	2698.0	2698.0	2698.0	2698.0	2698.0	2698.0	2698.0	2698.0	2698.0	2698.0
2.5°	2269.4	2242.0	2231.4	2240.9	2237.7	2234.6	2292.7	2280.0	2277.8	2296.9	2292.7
5°	1703.7	1655.1	1788.1	1734.3	1790.2	1824.0	1830.4	1833.5	1872.6	1831.4	1885.2
7.5°	1213.9	1226.5	1225.5	1261.4	1325.8	1382.8	1416.6	1390.2	1388.1	1382.8	1359.6
10°	970.1	947.9	943.7	935.2	955.3	1003.8	1045.0	1012.3	989.0	1020.7	1011.2
12.5°	792.7	762.1	745.2	711.4	712.5	745.2	745.2	745.2	768.4	786.4	800.1
15°	608.0	582.6	582.6	548.9	541.5	542.5	559.4	561.5	598.5	609.1	614.4
17.5°	425.4	411.7	427.5	441.2	432.8	434.9	441.2	443.3	448.6	444.4	455.0
20°	327.2	325.1	329.3	353.6	371.6	382.2	374.7	364.2	357.8	343.0	343.0
22.5°	277.6	281.8	289.2	309.2	332.5	338.8	330.4	306.1	287.1	285.0	286.0
25°	247.0	251.2	262.8	275.5	288.1	298.7	290.3	272.3	261.8	252.3	252.3
27.5°	228.0	230.1	236.4	245.9	256.5	264.9	261.8	252.3	240.7	236.4	227.0
30°	213.2	216.4	223.8	225.9	235.4	239.6	234.3	232.2	224.8	219.6	216.4
32.5°	205.8	204.8	210.1	212.2	213.2	216.4	210.1	213.2	212.2	203.7	200.6
35°	155.2	163.6	177.4	189.0	192.1	196.4	195.3	191.1	179.5	170.0	158.4
37.5°	139.4	144.7	152.0	161.5	174.2	179.5	177.4	166.8	153.1	146.8	144.7
40°	128.8	132.0	138.3	144.7	157.3	166.8	159.4	149.9	139.4	134.1	130.9
42.5°	119.3	120.3	123.5	129.9	139.4	154.1	141.5	128.8	124.6	121.4	119.3
45°	108.7	108.7	112.9	116.1	126.7	140.4	127.7	116.1	114.0	111.9	110.8
47.5°	100.2	101.3	103.4	107.6	116.1	125.6	117.2	107.6	102.3	101.3	99.2
50°	89.7	90.7	95.0	99.2	109.8	115.0	109.8	99.2	93.9	90.7	90.7
52°	81.2	84.4	88.6	97.1	104.5	112.9	106.6	95.0	88.6	85.5	83.4
52.5°	80.2	82.3	86.5	96.0	104.5	111.9	105.5	93.9	86.5	84.4	82.3
55°	71.7	74.9	82.3	93.9	103.4	111.9	103.4	92.9	82.3	77.0	74.9
57.5°	68.6	70.7	80.2	95.0	102.3	111.9	103.4	92.9	82.3	72.8	70.7
60°	65.4	69.6	80.2	91.8	101.3	112.9	104.5	91.8	80.2	68.6	68.6
62.5°	62.3	65.4	79.1	89.7	97.1	108.7	100.2	89.7	77.0	65.4	64.4
65°	53.8	59.1	69.6	74.9	83.4	93.9	85.5	78.1	67.5	58.0	57.0
67.5°	41.1	43.3	51.7	58.0	63.3	72.8	68.6	59.1	51.7	44.3	44.3
70°	28.5	30.6	36.9	40.1	45.4	50.6	47.5	40.1	34.8	30.6	29.5
72.5°	20.0	21.1	23.2	25.3	27.4	29.5	28.5	23.2	20.0	19.0	17.9
75°	15.8	17.9	19.0	17.9	16.9	15.8	15.8	13.7	11.6	10.6	10.6
77.5°	15.8	16.9	15.8	13.7	11.6	10.6	9.5	8.4	6.3	5.3	6.3
80°	13.7	13.7	13.7	11.6	10.6	9.5	8.4	7.4	6.3	5.3	5.3
82.5°	14.8	14.8	13.7	11.6	11.6	9.5	9.5	8.4	7.4	5.3	5.3
85°	0.0	0.0	0.0	2.1	5.3	9.5	9.5	8.4	7.4	6.3	6.3
87.5°	0.0	0.0	0.0	0.0	1.1	2.1	4.2	5.3	6.3	6.3	6.3
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°	2698.0	2698.0	2698.0	2698.0	2698.0	2698.0	2698.0	2698.0	2698.0	2698.0	2698.0
2.5°	2330.7	2370.8	2446.8	2522.7	2569.3	2624.1	2723.3	2776.1	2844.7	2878.5	2945.0
5°	1877.9	1972.8	2006.6	2093.2	2186.0	2278.9	2426.7	2589.3	2724.4	2817.3	2937.6
7.5°	1370.1	1392.3	1523.1	1581.2	1733.2	1902.1	2103.7	2308.5	2479.5	2631.5	2723.3
10°	1027.0	1108.4	1190.7	1301.5	1424.0	1598.1	1791.2	2017.1	2238.8	2390.8	2506.9
12.5°	825.4	889.9	999.6	1118.9	1269.8	1384.9	1579.1	1802.9	2090.0	2238.8	2391.9
15°	624.9	707.2	831.7	955.3	1114.7	1236.0	1432.4	1714.2	2083.7	2288.4	2420.4
17.5°	463.4	519.3	631.3	769.5	932.1	1103.1	1368.0	1704.7	2154.4	2398.2	2534.4
20°	354.6	373.7	444.4	567.9	744.2	967.9	1263.5	1745.9	2363.4	2665.3	2803.6
22.5°	287.1	295.5	323.0	408.5	579.5	849.7	1213.9	1774.4	2598.8	2985.1	3169.8
25°	250.2	248.1	266.0	302.9	452.8	738.9	1150.6	1882.1	2886.9	3360.9	3526.6
27.5°	228.0	228.0	236.4	262.8	375.8	667.1	1110.5	1959.1	3177.2	3691.2	3781.0
30°	216.4	218.5	242.8	251.2	312.4	581.6	1043.9	2037.2	3454.8	3902.4	4025.9
32.5°	200.6	192.1	186.9	208.0	262.8	504.5	977.4	2070.0	3679.6	4161.0	4266.6
35°	154.1	149.9	156.3	172.1	225.9	439.1	903.6	2106.9	3938.2	4460.7	4481.9
37.5°	139.4	138.3	142.5	156.3	190.0	382.2	850.8	2097.4	4135.6	4708.8	4651.8
40°	128.8	128.8	132.0	143.6	170.0	342.0	795.9	2089.0	4326.7	4987.5	4820.7
42.5°	120.3	120.3	125.6	133.0	161.5	315.6	754.7	2077.4	4487.2	5158.5	4919.9
45°	108.7	111.9	120.3	127.7	163.6	297.6	724.1	2033.0	4542.1	5156.3	4872.4
47.5°	100.2	104.5	112.9	123.5	147.8	292.4	703.0	1993.9	4523.1	5029.7	4723.6
50°	90.7	96.0	107.6	125.6	125.6	281.8	680.9	2028.7	4509.4	4931.5	4581.1
52°	84.4	88.6	103.4	122.4	109.8	259.7	667.1	2096.4	4565.3	4918.8	4517.8
52.5°	83.4	86.5	100.2	120.3	104.5	255.4	657.6	2112.2	4583.2	4887.2	4561.1
55°	73.9	78.1	91.8	93.9	85.5	210.1	627.0	2148.1	4494.6	4824.9	4519.9
57.5°	69.6	71.7	81.2	77.0	73.9	158.4	539.4	2092.1	3992.1	4285.6	4205.3
60°	64.4	66.5	76.0	60.1	62.3	110.8	405.4	1816.6	3205.7	3571.0	3715.5
62.5°	62.3	61.2	71.7	48.5	52.8	80.2	286.0	1476.7	2470.0	2939.7	3189.9
65°	54.9	53.8	51.7	41.1	45.4	62.3	171.0	963.7	1740.6	2224.0	2361.3
67.5°	42.2	44.3	38.0	32.7	38.0	48.5	95.0	431.7	913.1	1334.2	1445.1
70°	29.5	31.7	30.6	28.5	33.8	40.1	54.9	147.8	377.9	700.9	772.6
72.5°	17.9	22.2	23.2	24.3	29.5	34.8	39.0	47.5	100.2	248.1	308.2
75°	10.6	14.8	17.9	21.1	24.3	29.5	32.7	33.8	34.8	46.4	74.9
77.5°	7.4	10.6	15.8	20.0	24.3	29.5	34.8	36.9	34.8	32.7	34.8
80°	6.3	10.6	14.8	19.0	25.3	30.6	34.8	34.8	33.8	29.5	31.7
82.5°	6.3	10.6	15.8	20.0	24.3	29.5	33.8	34.8	31.7	29.5	30.6
85°	7.4	11.6	16.9	21.1	26.4	24.3	22.2	17.9	16.9	13.7	14.8
87.5°	7.4	10.6	10.6	11.6	12.7	12.7	12.7	11.6	9.5	8.4	8.4
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°	2698.0	2698.0	2698.0	2698.0	2698.0	2698.0	2698.0	2698.0	2698.0	2698.0
2.5°	2948.1	3032.6	3029.5	3031.6	3018.9	2933.4	2892.2	2787.7	2817.3	2804.6
5°	3061.1	3144.5	3216.2	3207.8	3110.7	2994.6	2822.6	2660.0	2615.7	2550.2
7.5°	2948.1	3148.7	3215.2	3205.7	3062.2	2913.3	2638.9	2476.3	2399.3	2356.0
10°	2768.7	3000.9	3083.3	3100.2	3003.0	2777.2	2524.9	2264.1	2223.0	2148.1
12.5°	2666.3	2835.2	2885.9	2931.3	2897.5	2728.6	2438.3	2188.2	2131.2	2081.6
15°	2583.0	2683.2	2704.3	2756.0	2776.1	2685.3	2483.7	2270.5	2130.1	2124.9
17.5°	2660.0	2618.8	2541.8	2557.6	2621.0	2686.4	2600.9	2433.0	2296.9	2280.0
20°	2787.7	2606.2	2432.0	2471.0	2523.8	2724.4	2778.2	2660.0	2581.9	2538.6
22.5°	2934.4	2628.3	2397.2	2416.2	2516.4	2809.9	3065.4	2999.8	2854.2	2792.0
25°	3205.7	2689.5	2424.6	2437.3	2574.5	2929.2	3325.0	3373.6	3287.0	3274.3
27.5°	3470.6	2847.9	2484.7	2456.3	2604.1	3045.3	3482.2	3743.0	3591.0	3561.5
30°	3605.8	2976.6	2574.5	2525.9	2726.5	3116.0	3577.3	3983.6	3850.7	3837.0
32.5°	3812.7	3093.8	2644.2	2581.9	2795.1	3203.6	3754.6	4246.5	4117.7	4049.1
35°	3899.2	3221.5	2797.3	2724.4	2991.4	3326.1	3845.4	4480.8	4440.7	4374.2
37.5°	4066.0	3358.8	2977.7	2973.5	3228.9	3485.4	4009.0	4799.6	4792.2	4677.1
40°	4079.7	3508.7	3262.7	3395.7	3596.3	3763.1	4152.5	4888.2	5008.6	4930.5
42.5°	4100.8	3771.5	3755.7	3865.4	4037.5	4001.6	4157.8	4909.3	5093.0	5046.6
45°	4110.3	4034.4	4257.1	4459.7	4531.5	4314.1	4108.2	4869.3	5137.4	5021.3
47.5°	4034.4	4260.3	4662.4	5054.0	5075.1	4506.2	4087.1	4828.1	5163.7	5086.7
50°	4044.9	4401.6	5012.9	5363.3	5286.2	4676.1	4054.4	4802.8	5150.0	5098.3
52°	4019.6	4404.8	5062.4	5356.9	5303.1	4582.2	3998.5	4705.6	5137.4	5174.3
52.5°	4048.1	4385.8	5010.7	5361.1	5291.5	4628.6	3991.0	4759.5	5144.7	5069.8
55°	3949.8	4159.9	4707.7	4856.6	4846.0	4201.1	3764.1	4581.1	4951.6	4952.6
57.5°	3569.9	3605.8	3692.3	3689.1	3640.6	3302.9	3219.4	4212.7	4414.3	4304.6
60°	3145.5	2639.9	2406.7	2311.7	2257.8	2202.9	2847.9	3853.8	3872.8	3826.4
62.5°	2718.0	1830.4	1520.0	1493.6	1506.3	1706.8	2752.8	3711.3	3597.3	3497.0
65°	2193.4	1334.2	1104.1	1069.2	1192.8	1409.2	2228.3	2845.8	2670.5	2587.2
67.5°	1377.5	973.2	746.3	680.9	829.6	970.1	1464.0	1788.1	1591.8	1476.7
70°	817.0	543.6	337.7	302.9	340.9	517.2	820.1	892.0	737.8	678.7
72.5°	321.9	199.5	93.9	80.2	83.4	181.6	301.9	294.5	222.7	198.5
75°	86.5	60.1	32.7	26.4	22.2	33.8	48.5	31.7	11.6	14.8
77.5°	40.1	35.9	28.5	22.2	16.9	12.7	6.3	2.1	2.1	1.1
80°	34.8	30.6	26.4	22.2	16.9	10.6	5.3	1.1	1.1	1.1
82.5°	32.7	28.5	24.3	20.0	15.8	10.6	5.3	1.1	0.0	0.0
85°	13.7	17.9	20.0	19.0	16.9	10.6	5.3	1.1	0.0	0.0
87.5°	7.4	6.3	5.3	4.2	3.2	2.1	2.1	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

(END OF REPORT)