

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: P530318

Luminaire Tested: **GALN-SA5C-735-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530318
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-735-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24426 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

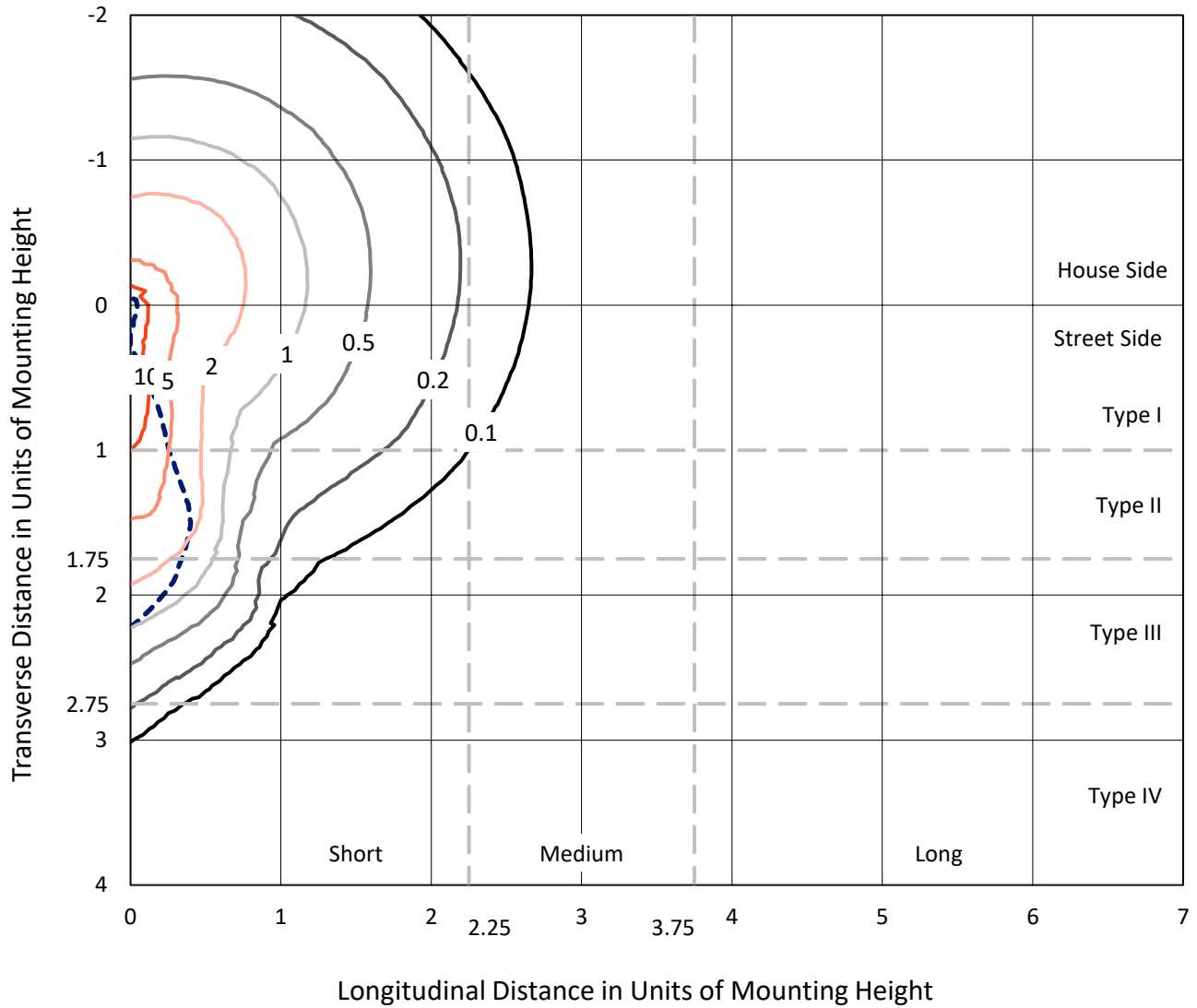
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

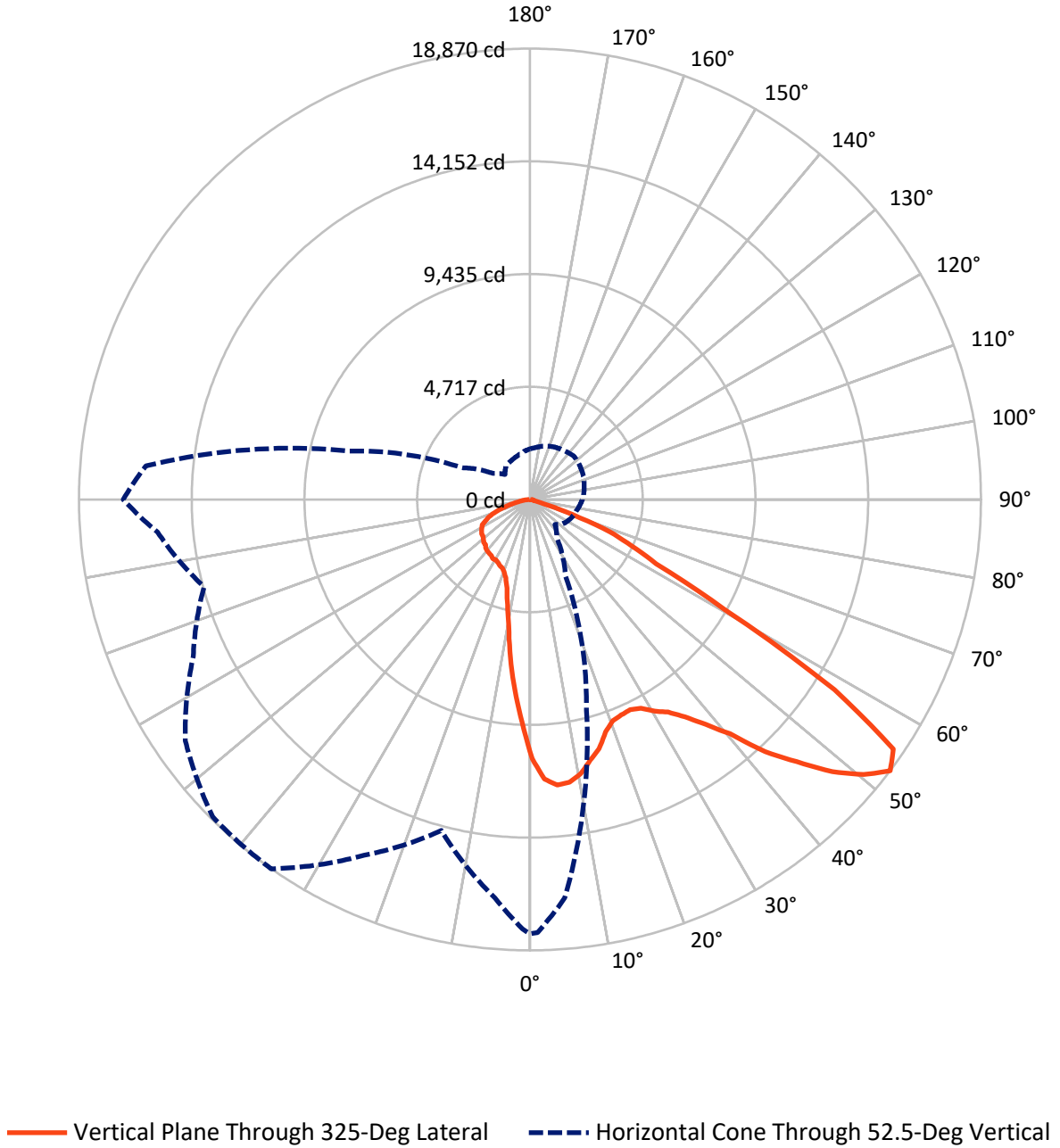
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7363.4	0.0	7363.4
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	17062.6	0.0	17062.6
	% Fixture	69.9	0.0	69.9
Total	Lumens	24426.0	0.0	24426.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	827.0	3.4
10°-20°	1792.9	7.3
20°-30°	2708.9	11.1
30°-40°	3914.5	16.0
40°-50°	5209.4	21.3
50°-60°	5826.9	23.9
60°-70°	3284.0	13.4
70°-80°	732.0	3.0
80°-90°	130.4	0.5
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°	24426.0	100.0
0°-180°	24426.0	100.0

Coefficient of Utilization

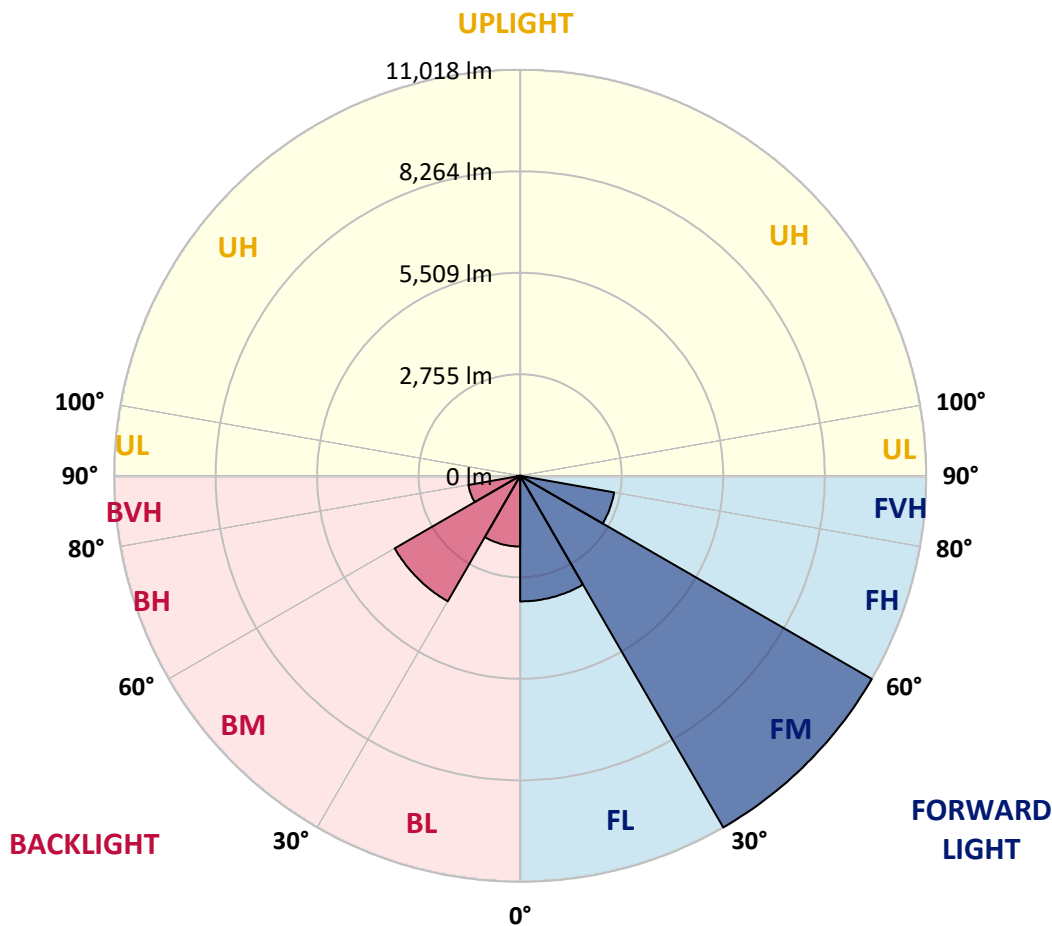


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3408.6	14.0			
FM (30°-60°)	11018.0	45.1			
FH (60°-80°)	2588.8	10.6			G2/5000
FVH (80°-90°)	47.2	0.2			G1/100
BL (0°-30°)	1920.2	7.9	B3/2500		
BM (30°-60°)	3932.8	16.1	B3/5000		
BH (60°-80°)	1427.3	5.8	B3/2500		G3/2500
BVH (80°-90°)	83.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10840.4	10840.4	10840.4	10840.4	10840.4	10840.4	10840.4	10840.4	10840.4	10840.4	10840.4
2.5°	11021.0	11198.0	11006.8	10666.9	10426.2	10206.7	9976.6	9930.6	9629.6	9576.5	9357.0
5°	10394.3	10355.4	10121.7	9675.6	9183.5	8737.5	8408.2	8089.6	7873.6	7622.3	7604.6
7.5°	9633.2	9406.6	9272.1	8595.9	7986.9	7285.9	6985.0	6500.0	6347.8	6121.2	6004.4
10°	8953.4	8787.0	8471.9	7795.7	6946.1	6482.3	6160.1	5898.1	5721.1	5487.5	5193.6
12.5°	8617.1	8549.8	8195.8	7147.9	6517.7	6022.1	5795.5	5540.6	5239.6	4864.4	4719.2
15°	8677.3	8450.7	8181.6	7024.0	6153.0	5675.1	5314.0	4995.4	4609.5	4251.9	4043.0
17.5°	9126.9	8953.4	8415.3	7101.8	6015.0	5324.6	4669.7	4198.8	3851.9	3529.7	3384.5
20°	10012.0	9760.6	9155.2	7201.0	5717.6	4836.1	4085.5	3504.9	3133.2	2963.2	2913.7
22.5°	10992.6	10843.9	9877.4	7424.0	5480.4	4382.9	3466.0	2885.3	2747.3	2701.3	2793.3
25°	12185.7	11799.8	10999.7	7788.7	5296.3	3997.0	2942.0	2619.8	2549.0	2595.0	2701.3
27.5°	13092.0	12989.4	11785.7	8132.1	5044.9	3533.2	2648.1	2435.7	2457.0	2503.0	2602.1
30°	14168.3	13647.9	12546.8	8369.3	4818.4	3214.6	2442.8	2386.2	2407.4	2485.3	2534.9
32.5°	14816.2	14621.5	13024.8	8726.8	4556.4	2938.5	2283.5	2230.4	2262.3	2379.1	2495.9
35°	15641.1	15255.2	13616.0	8818.9	4372.3	2828.7	2170.2	2131.3	2205.6	2287.0	2418.0
37.5°	16604.0	16338.5	14433.8	8755.2	4273.1	2715.4	2074.6	2056.9	2110.0	2223.3	2375.5
40°	17174.0	17092.6	14862.2	8794.1	4117.4	2616.3	1964.9	1986.1	2095.9	2184.4	2333.1
42.5°	17722.8	17191.7	15495.9	8780.0	4018.2	2481.8	1975.5	1950.7	2035.7	2138.3	2280.0
45°	17843.1	17315.6	15644.6	8680.8	3897.9	2350.8	1894.1	1904.7	2007.4	2134.8	2226.9
47.5°	17765.2	17375.8	15920.7	8652.5	3784.6	2258.7	1773.7	1901.1	1961.3	2064.0	2195.0
50°	17712.1	17690.9	16154.4	8787.0	3632.4	2113.6	1628.5	1855.1	1915.3	2018.0	2159.6
52.5°	18179.5	18133.4	16738.6	9141.1	3512.0	1957.8	1479.8	1738.3	1883.4	1982.6	2120.6
55°	18462.7	18260.9	17740.5	9576.5	3310.2	1752.5	1377.2	1593.1	1805.6	1894.1	2035.7
57.5°	16607.6	16469.5	16048.2	8939.3	2970.3	1483.4	1249.7	1444.4	1699.3	1837.4	1982.6
60°	13817.8	13601.8	12522.1	7597.5	2191.4	1154.1	1171.8	1327.6	1671.0	1724.1	1894.1
62.5°	13028.3	12493.7	11024.5	6114.1	1681.6	991.3	1051.5	1221.4	1522.3	1610.8	1780.8
65°	10337.7	9941.2	7887.8	4414.8	1125.8	860.3	959.4	1101.0	1313.5	1486.9	1642.7
67.5°	6471.7	6092.9	4209.4	2088.8	785.9	736.4	856.8	1005.4	1178.9	1334.7	1508.2
70°	3381.0	2966.8	1943.6	754.1	541.7	601.9	715.1	856.8	1026.7	1154.1	1288.7
72.5°	1260.3	1023.1	633.7	325.7	375.3	460.2	580.6	683.3	803.6	959.4	1033.8
75°	194.7	166.4	162.9	198.3	254.9	332.8	414.2	516.9	623.1	722.2	771.8
77.5°	92.0	88.5	99.1	131.0	169.9	237.2	300.9	400.1	485.0	548.7	577.1
80°	60.2	56.6	63.7	88.5	127.5	177.0	240.7	308.0	385.9	439.0	431.9
82.5°	35.4	38.9	38.9	60.2	88.5	127.5	173.5	233.7	286.8	332.8	304.5
85°	21.2	17.7	17.7	35.4	60.2	102.7	145.2	99.1	102.7	102.7	116.8
87.5°	7.1	7.1	7.1	3.5	7.1	7.1	10.6	17.7	21.2	24.8	31.9
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°	10840.4	10840.4	10840.4	10840.4	10840.4	10840.4	10840.4	10840.4	10840.4	10840.4	10840.4
2.5°	9349.9	9459.7	9420.7	9282.7	9388.9	9406.6	9335.8	9580.1	9626.1	9551.7	9573.0
5°	7579.8	7608.1	7671.8	7806.4	7902.0	8015.2	8015.2	8022.3	7926.7	8167.5	8096.7
7.5°	5905.2	5922.9	5997.3	6284.0	6365.5	6581.4	6673.5	6609.7	6418.6	6337.1	6404.4
10°	5098.0	4995.4	4970.6	5006.0	5190.1	5282.1	5360.0	5338.8	5306.9	5243.2	5172.4
12.5°	4559.9	4485.6	4425.4	4340.4	4351.0	4439.5	4499.7	4450.2	4464.3	4478.5	4499.7
15°	3975.8	3922.7	3890.8	3763.3	3749.2	3809.4	3830.6	3858.9	3912.0	3915.6	3890.8
17.5°	3356.2	3310.2	3381.0	3451.8	3402.2	3405.8	3444.7	3469.5	3455.3	3391.6	3359.7
20°	2931.4	2980.9	3051.7	3119.0	3172.1	3204.0	3218.1	3179.2	3133.2	3002.2	2998.6
22.5°	2807.5	2871.2	2931.4	3034.0	3083.6	3165.0	3090.7	3002.2	2938.5	2874.7	2800.4
25°	2715.4	2768.5	2888.9	2927.8	3023.4	3090.7	3037.6	2949.1	2839.3	2747.3	2690.6
27.5°	2648.1	2708.3	2786.2	2892.4	2966.8	3005.7	2952.6	2917.2	2803.9	2694.2	2612.7
30°	2605.7	2669.4	2811.0	2899.5	2963.2	2995.1	2903.0	2860.6	2779.1	2687.1	2616.3
32.5°	2577.3	2634.0	2754.4	2867.6	2910.1	2910.1	2924.3	2874.7	2761.4	2605.7	2545.5
35°	2485.3	2563.2	2662.3	2793.3	2871.2	2917.2	2846.4	2789.8	2715.4	2556.1	2446.3
37.5°	2432.2	2485.3	2612.7	2736.7	2803.9	2853.5	2825.2	2726.0	2626.9	2495.9	2407.4
40°	2375.5	2460.5	2573.8	2690.6	2765.0	2814.5	2793.3	2676.5	2556.1	2432.2	2372.0
42.5°	2336.6	2393.2	2510.1	2641.1	2729.6	2825.2	2761.4	2616.3	2531.3	2361.4	2294.1
45°	2304.7	2396.8	2520.7	2573.8	2665.8	2765.0	2651.7	2563.2	2464.1	2340.1	2283.5
47.5°	2265.8	2350.8	2432.2	2573.8	2616.3	2662.3	2641.1	2499.5	2414.5	2280.0	2241.0
50°	2251.6	2283.5	2432.2	2510.1	2570.3	2616.3	2559.6	2453.4	2372.0	2233.9	2149.0
52.5°	2195.0	2255.2	2350.8	2453.4	2527.8	2584.4	2492.4	2425.1	2315.4	2170.2	2117.1
55°	2124.2	2159.6	2329.5	2435.7	2474.7	2513.6	2478.2	2368.5	2255.2	2106.5	2053.4
57.5°	2032.1	2113.6	2251.6	2400.3	2449.9	2471.1	2414.5	2326.0	2184.4	2053.4	1968.4
60°	1936.5	2021.5	2173.7	2294.1	2343.7	2421.6	2336.6	2283.5	2120.6	1975.5	1883.4
62.5°	1841.0	1936.5	2049.8	2202.1	2244.6	2276.4	2255.2	2180.8	2049.8	1887.0	1773.7
65°	1727.7	1798.5	1940.1	2018.0	2046.3	2120.6	2046.3	2018.0	1901.1	1745.4	1649.8
67.5°	1557.7	1617.9	1741.8	1816.2	1837.4	1869.3	1865.7	1833.9	1702.9	1596.7	1511.7
70°	1363.0	1416.1	1494.0	1582.5	1593.1	1632.1	1596.7	1589.6	1504.6	1359.5	1313.5
72.5°	1094.0	1143.5	1246.2	1285.1	1288.7	1302.8	1285.1	1260.3	1239.1	1086.9	1040.8
75°	839.1	867.4	916.9	952.3	952.3	970.0	959.4	934.6	878.0	782.4	736.4
77.5°	584.2	612.5	676.2	697.4	693.9	701.0	669.1	644.3	559.4	509.8	470.9
80°	424.8	442.5	474.4	488.6	492.1	502.7	463.8	442.5	393.0	336.3	318.6
82.5°	308.0	318.6	322.2	339.9	339.9	322.2	311.5	290.3	254.9	219.5	205.3
85°	127.5	131.0	134.5	155.8	159.3	191.2	177.0	166.4	145.2	123.9	113.3
87.5°	31.9	35.4	46.0	38.9	46.0	46.0	49.6	56.6	56.6	46.0	46.0
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°	10840.4	10840.4	10840.4	10840.4	10840.4	10840.4	10840.4	10840.4	10840.4	10840.4	10840.4
2.5°	9654.4	9682.7	10043.8	10089.9	10266.9	10447.4	10812.1	11074.1	11286.5	11424.6	11463.5
5°	8171.0	8351.6	8518.0	8787.0	9031.3	9378.3	9778.3	10274.0	10897.1	11215.7	11343.1
7.5°	6397.3	6609.7	6850.5	7112.5	7470.0	8093.1	8627.7	9201.2	9997.8	10327.1	10826.2
10°	5221.9	5459.1	5777.8	5979.6	6411.5	7006.3	7629.4	8291.4	9052.6	9527.0	10104.0
12.5°	4616.6	4811.3	5105.1	5530.0	5852.1	6238.0	6701.8	7537.3	8627.7	9077.3	9473.9
15°	3947.4	4163.4	4503.3	4974.1	5360.0	5820.3	6340.7	7250.5	8411.8	9105.7	9442.0
17.5°	3395.2	3550.9	3908.5	4315.6	4758.2	5260.9	6007.9	7236.4	8638.3	9527.0	10075.7
20°	3012.8	3034.0	3228.8	3575.7	4177.6	4832.5	5802.6	7165.6	9364.1	10252.7	10946.6
22.5°	2772.1	2750.8	2754.4	3048.2	3469.5	4411.2	5480.4	7406.3	10189.0	11406.9	11874.2
25°	2651.7	2595.0	2559.6	2623.4	3005.7	3912.0	5236.1	7724.9	11077.6	12359.2	12932.7
27.5°	2588.0	2488.8	2418.0	2428.6	2708.3	3660.7	5083.9	7863.0	11959.1	13686.8	13888.6
30°	2563.2	2439.3	2336.6	2301.2	2485.3	3310.2	4758.2	8100.2	12748.6	14416.1	14589.6
32.5°	2474.7	2322.4	2223.3	2191.4	2265.8	3002.2	4524.5	8270.1	13446.1	15209.1	15149.0
35°	2372.0	2244.6	2120.6	2060.5	2113.6	2803.9	4336.9	8188.7	14267.4	15825.2	15793.3
37.5°	2361.4	2195.0	2092.3	1993.2	1989.7	2559.6	4082.0	8266.6	14791.4	16929.7	16494.3
40°	2269.3	2163.1	2028.6	1947.2	1901.1	2435.7	3834.1	8082.5	15559.6	17375.8	16947.4
42.5°	2272.9	2113.6	1996.7	1901.1	1855.1	2255.2	3664.2	8032.9	15828.7	18101.6	17159.9
45°	2216.2	2060.5	1961.3	1848.0	1823.3	2117.1	3501.4	7802.8	16303.1	18137.0	16894.3
47.5°	2159.6	2021.5	1915.3	1780.8	1724.1	2067.5	3373.9	7611.7	16055.3	17804.2	16526.1
50°	2120.6	1961.3	1862.2	1766.6	1607.3	1982.6	3207.5	7565.6	15708.3	17354.6	15842.9
52.5°	2053.4	1911.8	1809.1	1734.7	1479.8	1904.7	3143.8	7834.7	16133.2	17018.2	15644.6
55°	1989.7	1844.5	1713.5	1568.4	1373.6	1699.3	2966.8	8086.1	16752.7	17793.6	16543.8
57.5°	1922.4	1784.3	1642.7	1469.2	1271.0	1486.9	2782.7	8132.1	15591.5	16444.7	15704.8
60°	1833.9	1656.9	1550.7	1324.1	1161.2	1232.0	2205.6	7169.1	12093.7	13732.8	13757.6
62.5°	1734.7	1543.6	1451.5	1186.0	1047.9	1062.1	1798.5	6025.6	9810.2	11367.9	12044.1
65°	1603.8	1419.7	1309.9	1097.5	966.5	920.5	1317.0	4414.8	7452.3	9222.5	9990.7
67.5°	1433.8	1260.3	1122.3	955.9	863.8	789.5	899.2	2485.3	4400.6	6192.0	6425.7
70°	1253.3	1104.6	959.4	821.4	718.7	665.6	658.5	1101.0	2102.9	3331.4	3791.7
72.5°	987.7	881.5	764.7	662.0	594.8	516.9	470.9	456.7	711.6	1355.9	1872.8
75°	708.1	619.6	552.3	485.0	435.5	393.0	357.6	325.7	297.4	339.9	467.3
77.5°	446.1	414.2	361.1	343.4	315.1	304.5	290.3	272.6	251.4	237.2	237.2
80°	300.9	279.7	262.0	258.4	247.8	244.3	247.8	230.1	208.9	191.2	198.3
82.5°	201.8	198.3	194.7	191.2	194.7	198.3	205.3	201.8	184.1	173.5	177.0
85°	120.4	127.5	134.5	141.6	155.8	138.1	113.3	95.6	85.0	77.9	74.3
87.5°	46.0	63.7	56.6	53.1	56.6	53.1	49.6	46.0	38.9	35.4	35.4
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°	10840.4	10840.4	10840.4	10840.4	10840.4	10840.4	10840.4	10840.4	10840.4	10840.4
2.5°	11721.9	11792.8	11852.9	11838.8	11714.9	11548.5	11481.2	11137.8	11067.0	11021.0
5°	11881.3	12291.9	12380.4	12327.3	12005.2	11598.0	11201.5	10698.8	10405.0	10394.3
7.5°	11587.4	12093.7	12253.0	12373.4	11945.0	11236.9	10557.2	9803.1	9619.0	9633.2
10°	10840.4	11647.6	12040.6	12164.5	11672.4	11059.9	10118.2	9353.5	8960.5	8953.4
12.5°	10426.2	11059.9	11169.7	11343.1	11198.0	10578.4	9863.3	9006.5	8624.2	8617.1
15°	10058.0	10475.8	10507.6	10751.9	10829.8	10412.0	9930.6	9017.2	8709.1	8677.3
17.5°	10380.2	10089.9	9969.5	10001.4	10231.5	10383.7	10320.0	9619.0	9303.9	9126.9
20°	10596.1	9948.3	9583.6	9619.0	9891.6	10447.4	10900.6	10489.9	9990.7	10012.0
22.5°	11173.2	9969.5	9399.5	9360.6	9792.5	10780.2	11555.6	11591.0	11109.5	10992.6
25°	12037.0	10213.8	9342.9	9332.2	9746.5	11137.8	12320.3	12893.8	12401.7	12185.7
27.5°	12730.9	10596.1	9519.9	9555.3	9891.6	11428.1	12971.7	13732.8	13357.6	13092.0
30°	13339.9	10992.6	9767.7	9604.8	10281.0	11580.3	13251.4	14688.7	14387.8	14168.3
32.5°	13591.2	11555.6	10160.7	9891.6	10603.2	11764.4	13832.0	15616.3	15357.8	14816.2
35°	14016.1	11870.6	10373.1	10351.8	11166.1	12207.0	14104.6	16228.8	16122.5	15641.1
37.5°	14355.9	12189.3	11127.2	10893.5	11937.9	12950.4	14543.6	17074.9	16830.6	16604.0
40°	14617.9	12759.3	11831.7	12139.7	12886.7	13626.6	14947.2	17128.0	17832.5	17174.0
42.5°	14377.2	13269.1	12989.4	13725.8	14433.8	14398.4	14993.2	17538.7	18066.2	17722.8
45°	14317.0	14132.9	14819.7	15488.8	15651.7	15039.2	14663.9	17085.5	17995.4	17843.1
47.5°	14171.8	14982.6	16179.2	17269.6	17021.8	15467.6	14271.0	17004.1	18037.8	17765.2
50°	14122.3	15166.7	17184.6	18246.7	18098.0	15839.3	14086.9	16480.1	17736.9	17712.1
52.5°	14118.7	15545.5	17602.4	18777.8	18869.8	16427.0	14338.2	16745.6	17970.6	18179.5
55°	14278.0	15425.1	17549.3	18483.9	18448.5	16165.0	14366.6	16922.7	18257.3	18462.7
57.5°	13467.3	13817.8	14483.4	15223.3	15032.1	13389.4	12830.1	15644.6	16756.3	16607.6
60°	11629.9	10532.4	9781.9	9746.5	9374.7	8861.4	10500.5	13963.0	13963.0	13817.8
62.5°	10185.5	6914.2	5940.6	5664.5	5930.0	6521.2	10128.8	13580.6	13194.7	13028.3
65°	8907.4	5278.6	4294.4	4216.5	4676.7	5568.9	9158.8	11569.7	10890.0	10337.7
67.5°	5731.8	3866.0	3193.4	3055.3	3611.1	4089.1	6096.4	7116.0	6687.6	6471.7
70°	3696.1	2517.2	1777.2	1667.5	1883.4	2520.7	3894.3	4149.2	3526.1	3381.0
72.5°	1748.9	1086.9	623.1	513.3	577.1	963.0	1540.0	1656.9	1377.2	1260.3
75°	555.8	400.1	254.9	219.5	208.9	247.8	354.0	272.6	198.3	194.7
77.5°	247.8	237.2	201.8	169.9	148.7	123.9	102.7	85.0	88.5	92.0
80°	205.3	187.6	166.4	148.7	123.9	95.6	74.3	56.6	56.6	60.2
82.5°	180.6	162.9	145.2	123.9	106.2	77.9	56.6	38.9	35.4	35.4
85°	77.9	92.0	99.1	106.2	85.0	63.7	38.9	24.8	21.2	21.2
87.5°	31.9	28.3	24.8	21.2	17.7	17.7	14.2	10.6	7.1	7.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)