

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: P648386

Luminaire Tested: **GALN-SA4B-835-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648386
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-835-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15192.5 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

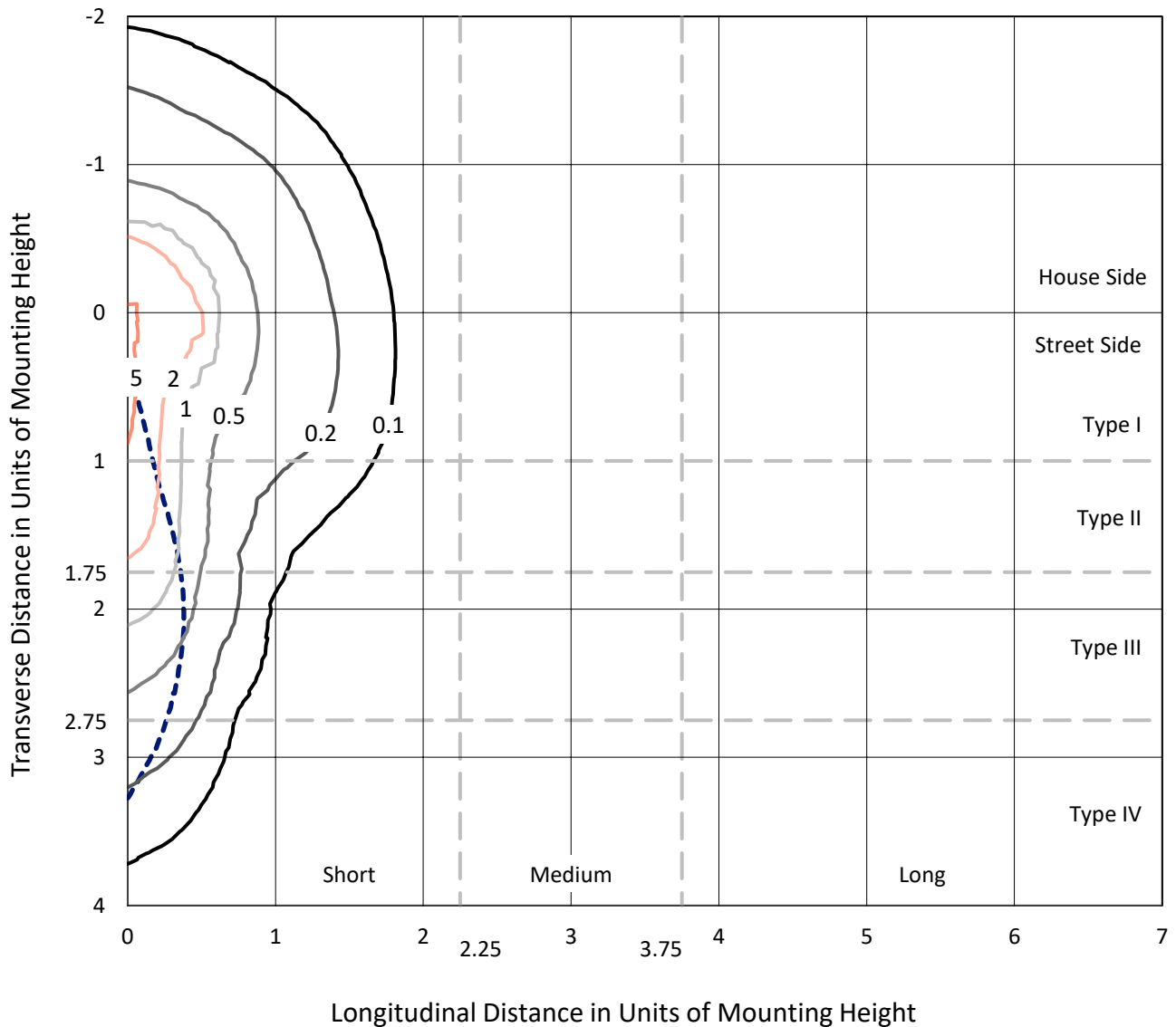
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

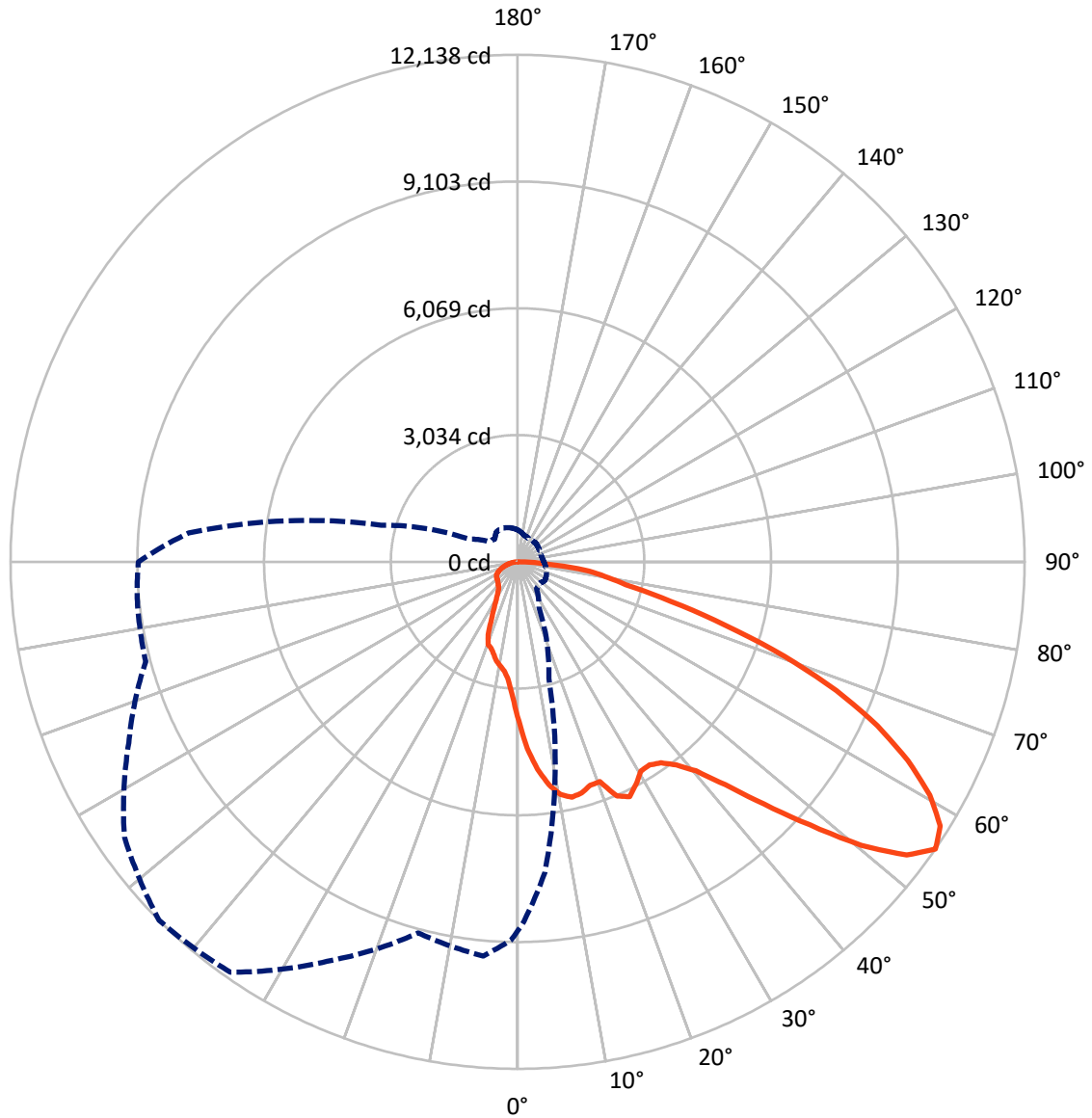
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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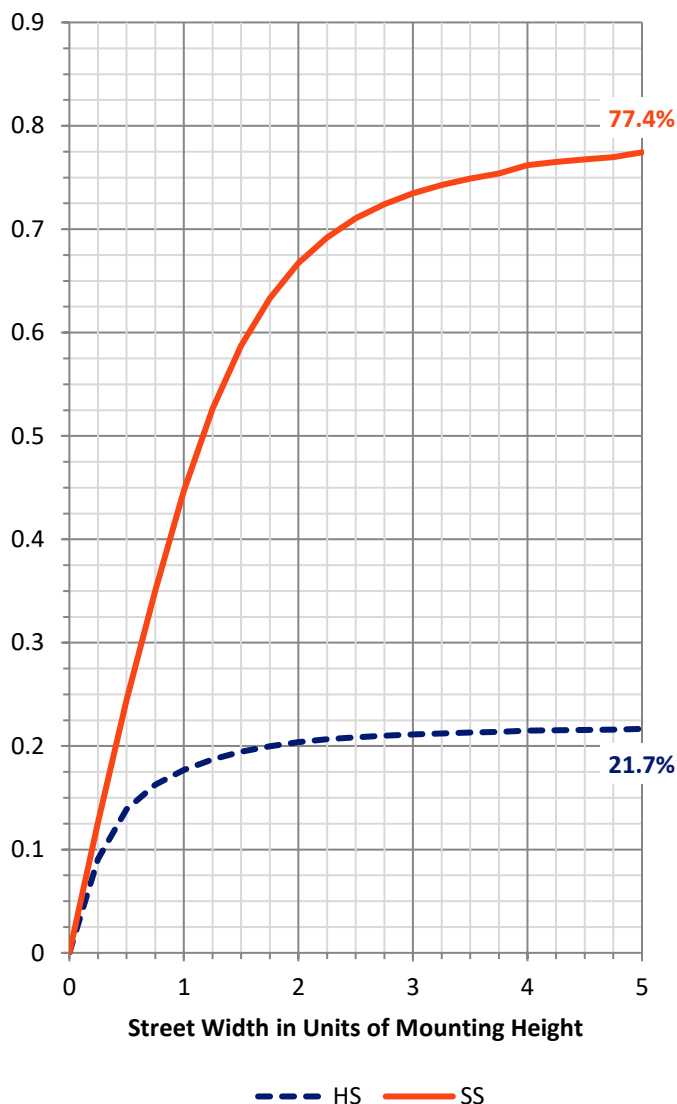
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3323.3	0.0	3323.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	11869.3	0.0	11869.3
	% Fixture	78.1	0.0	78.1
Total	Lumens	15192.5	0.0	15192.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.1	2.1
10°-20°	857.3	5.6
20°-30°	1481.0	9.7
30°-40°	1721.2	11.3
40°-50°	2401.4	15.8
50°-60°	3258.4	21.4
60°-70°	3100.0	20.4
70°-80°	1674.7	11.0
80°-90°	375.3	2.5
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°	15192.5	100.0
0°-180°	15192.5	100.0

Coefficient of Utilization



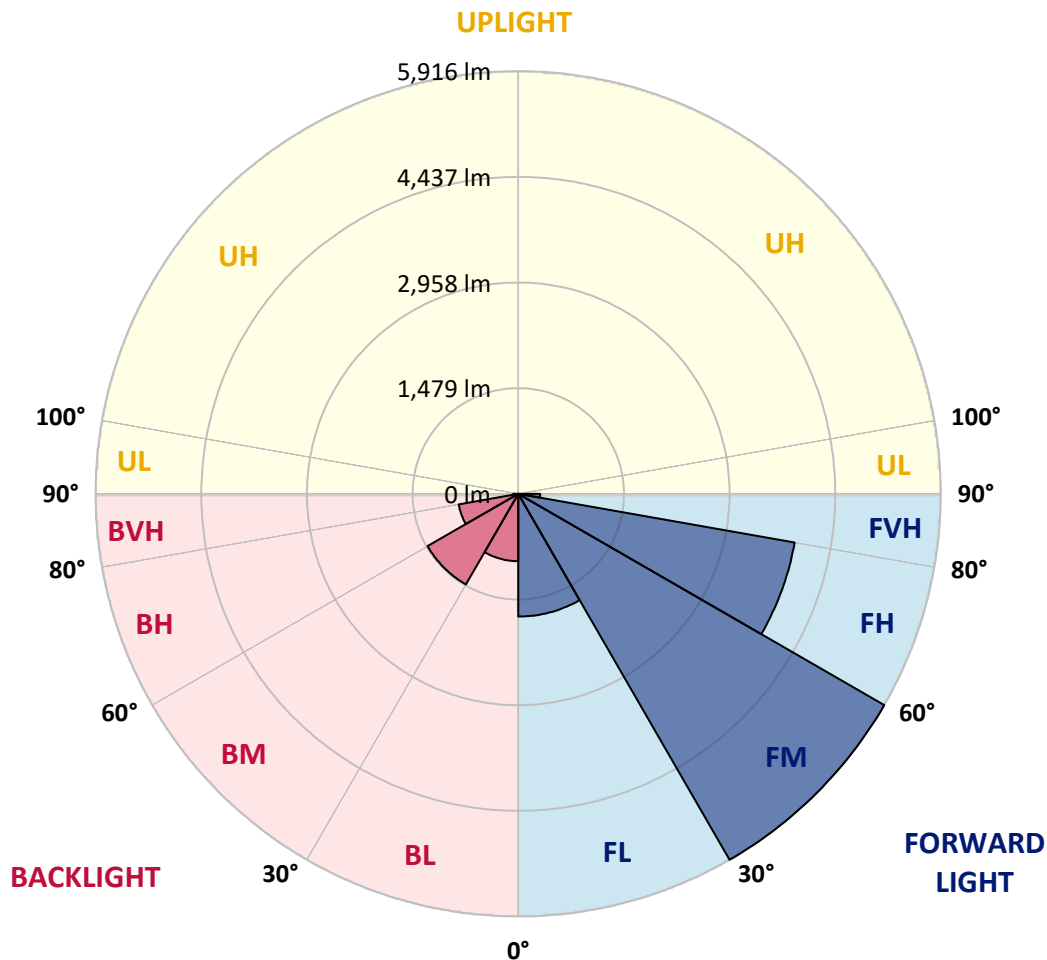
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1718.3	11.3			
FM (30°-60°)	5915.7	38.9			
FH (60°-80°)	3928.5	25.9			G2/5000
FVH (80°-90°)	306.7	2.0			G3/500
BL (0°-30°)	943.2	6.2	B2/1000		
BM (30°-60°)	1465.4	9.6	B2/2500		
BH (60°-80°)	846.2	5.6	B2/1000		G2/1000
BVH (80°-90°)	68.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3812.7	3812.7	3812.7	3812.7	3812.7	3812.7	3812.7	3812.7	3812.7	3812.7	3812.7
2.5°	4235.7	4219.7	4174.6	4056.3	3937.0	3815.7	3722.5	3606.3	3485.0	3419.8	3336.7
5°	4293.8	4275.8	4169.6	3902.9	3661.4	3407.8	3205.4	3027.9	2955.7	2849.5	2764.3
7.5°	4157.5	4149.5	3990.2	3607.3	3276.5	2944.8	2715.2	2572.9	2443.6	2395.5	2405.5
10°	4033.2	4001.1	3801.7	3301.6	2915.7	2646.1	2481.7	2342.3	2251.1	2227.1	2232.1
12.5°	3930.0	3886.9	3651.4	3096.1	2758.4	2542.8	2333.3	2188.0	2104.9	2127.9	2206.0
15°	3909.0	3850.8	3588.3	3025.9	2672.1	2394.5	2165.0	1997.6	1935.4	1985.5	2110.8
17.5°	4045.3	3972.1	3696.5	3049.0	2589.9	2243.1	1961.5	1770.0	1717.9	1798.1	1961.5
20°	4483.3	4375.0	4034.3	3182.3	2581.9	2168.0	1843.3	1650.8	1672.8	1825.2	1995.6
22.5°	5293.2	5130.8	4625.6	3376.8	2624.0	2148.9	1819.1	1718.9	1840.2	1969.5	2081.8
25°	5453.5	5326.2	4731.8	3420.8	2615.0	2135.9	1887.3	1937.5	2072.8	2136.9	2097.8
27.5°	5543.7	5398.4	4724.9	3202.3	2338.4	1937.5	1804.1	1887.3	1921.4	1859.2	1753.0
30°	5754.2	5602.8	4844.1	2972.8	1925.4	1437.3	1259.9	1225.8	1248.9	1260.9	1222.8
32.5°	6043.8	5894.5	5068.6	2822.5	1664.8	1188.8	1014.3	966.2	955.2	942.2	927.2
35°	6418.7	6189.1	5289.1	2726.2	1557.5	1099.5	939.1	902.1	887.1	869.0	852.9
37.5°	6799.6	6559.0	5567.8	2625.0	1486.4	1037.4	889.0	872.0	846.0	826.9	803.8
40°	7204.5	6934.9	5821.4	2536.8	1417.2	997.3	852.9	851.0	816.9	794.8	767.7
42.5°	7555.3	7277.7	6047.9	2482.7	1364.1	955.2	830.9	836.9	801.9	768.7	733.7
45°	7833.9	7561.4	6257.3	2482.7	1321.0	913.1	826.9	822.9	787.8	746.7	706.7
47.5°	8078.5	7796.9	6461.8	2545.8	1294.0	878.0	804.8	811.9	775.8	723.6	684.6
50°	8267.9	8019.4	6737.4	2644.0	1266.9	849.9	776.8	814.9	765.8	711.7	666.5
52.5°	8509.5	8287.0	7069.2	2778.4	1243.9	818.9	751.8	814.9	764.8	712.6	663.5
55°	8844.3	8609.7	7469.1	2889.6	1206.8	789.8	729.7	791.8	761.8	707.6	655.5
57.5°	9078.8	8903.4	7751.8	2963.8	1153.7	752.7	709.6	769.8	748.7	688.6	631.4
58°	9089.8	8918.4	7792.9	2980.8	1140.6	745.7	704.6	759.7	742.7	680.6	623.4
60°	8963.5	8816.2	7800.9	2956.8	1066.4	710.7	678.5	718.6	710.7	633.4	580.4
62.5°	8504.5	8347.1	7477.1	2761.3	968.2	667.5	638.5	663.5	645.5	567.3	518.2
65°	7852.0	7562.3	6811.6	2454.6	898.0	621.4	584.4	586.3	567.3	511.1	468.1
67.5°	6983.0	6659.3	5767.2	2068.8	844.9	570.3	520.2	515.2	492.1	456.0	420.9
70°	5913.5	5692.0	4686.7	1682.8	785.8	514.2	448.0	445.1	431.0	403.9	372.9
72.5°	4793.0	4511.3	3784.7	1347.1	713.6	460.1	380.9	386.9	368.9	349.8	321.7
75°	3537.1	3352.6	2925.7	1080.5	616.4	400.9	317.7	319.7	311.7	291.7	269.6
77.5°	2329.3	2274.2	2092.8	709.6	474.1	318.8	259.6	261.6	255.6	237.6	214.5
80°	1567.6	1530.5	1418.2	457.0	316.7	230.5	200.4	202.5	201.5	182.4	151.4
82.5°	966.2	950.2	914.1	308.7	219.5	165.4	132.3	138.3	149.3	128.3	103.2
85°	456.0	457.0	552.2	168.4	129.3	106.3	72.2	77.2	77.2	77.2	58.1
87.5°	59.1	62.2	76.2	71.2	47.1	40.1	26.1	22.1	19.0	25.1	18.0
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°	3812.7	3812.7	3812.7	3812.7	3812.7	3812.7	3812.7	3812.7	3812.7	3812.7	3812.7
2.5°	3307.5	3287.5	3244.4	3234.4	3228.4	3245.5	3200.4	3212.3	3192.3	3248.4	3239.4
5°	2769.3	2771.4	2806.4	2829.4	2837.5	2829.4	2799.4	2747.3	2707.2	2691.2	2695.2
7.5°	2386.5	2421.6	2481.7	2548.8	2610.0	2628.0	2611.0	2511.8	2403.5	2335.4	2313.3
10°	2259.2	2306.2	2375.5	2428.6	2482.7	2525.8	2534.8	2457.6	2329.3	2168.0	2104.9
12.5°	2266.2	2330.4	2396.5	2413.5	2408.5	2425.6	2417.5	2404.5	2320.3	2114.9	2009.6
15°	2200.1	2276.2	2322.3	2313.3	2297.2	2282.2	2261.1	2228.1	2198.0	2053.7	1937.5
17.5°	2047.7	2125.8	2164.0	2167.0	2167.0	2163.0	2111.8	2099.8	2095.8	2025.6	1954.4
20°	2075.7	2118.9	2101.8	2073.8	2081.8	2108.9	2078.8	2072.8	2095.8	2126.9	2113.9
22.5°	2091.8	2076.8	1948.5	1824.2	1796.1	1880.3	1897.4	1964.5	2057.7	2170.0	2243.1
25°	1992.6	1871.3	1641.8	1501.4	1422.2	1500.5	1602.6	1727.0	1866.3	2010.6	2095.8
27.5°	1665.8	1573.6	1409.2	1282.9	1213.8	1225.8	1313.0	1426.2	1555.6	1652.8	1714.9
30°	1254.9	1213.8	1128.6	1085.5	1043.4	1033.4	1070.4	1113.6	1170.7	1182.7	1198.8
32.5°	924.1	918.1	923.1	909.1	901.1	900.1	889.0	899.0	905.1	912.1	898.0
35°	835.9	827.9	813.9	809.9	804.8	806.9	801.9	796.9	800.9	806.9	810.9
37.5°	790.8	778.8	758.7	751.8	751.8	754.7	746.7	744.7	751.8	770.8	780.8
40°	755.8	741.7	718.6	709.6	715.7	723.6	712.6	708.6	725.7	745.7	761.8
42.5°	722.6	711.7	689.6	679.6	684.6	699.6	683.6	680.6	702.6	724.7	743.7
45°	694.6	683.6	663.5	658.5	660.5	674.6	663.5	663.5	684.6	708.6	725.7
47.5°	672.5	658.5	645.5	641.4	643.5	651.5	649.5	649.5	669.5	694.6	711.7
50°	650.5	638.5	621.4	623.4	628.4	639.5	638.5	641.4	661.5	692.6	710.7
52.5°	640.5	622.4	603.4	605.4	620.4	633.4	629.5	632.4	655.5	713.6	739.7
55°	629.5	605.4	583.3	586.3	603.4	622.4	617.4	621.4	648.5	727.6	763.7
57.5°	608.4	580.4	556.2	558.3	583.3	603.4	595.4	600.4	632.4	712.6	750.7
58°	599.4	575.3	552.2	553.3	577.3	599.4	590.4	594.4	627.4	708.6	744.7
60°	561.3	547.2	527.2	528.2	551.2	570.3	565.3	569.3	601.3	679.6	706.7
62.5°	509.2	501.1	496.1	496.1	510.2	528.2	533.2	538.2	567.3	614.4	638.5
65°	453.0	453.0	454.1	454.1	463.1	486.1	489.1	502.1	529.2	552.2	570.3
67.5°	414.9	413.0	414.9	409.9	414.0	428.0	443.0	455.1	483.1	499.2	505.2
70°	365.8	364.8	365.8	358.8	363.9	375.8	385.9	405.9	435.0	447.0	450.1
72.5°	317.7	317.7	319.7	314.7	314.7	327.8	334.7	356.8	383.9	390.9	391.9
75°	267.6	270.6	270.6	263.6	265.6	273.7	282.7	300.7	325.7	330.7	330.7
77.5°	212.5	223.5	223.5	216.5	219.5	220.5	232.6	241.6	260.6	262.6	254.6
80°	154.3	165.4	174.4	168.4	173.4	167.4	174.4	180.4	199.4	190.4	177.4
82.5°	110.2	118.2	125.3	126.3	121.3	110.2	119.3	120.3	129.3	117.3	110.2
85°	61.2	68.1	77.2	73.1	65.1	58.1	61.2	63.1	62.2	59.1	55.1
87.5°	16.1	17.1	19.0	14.0	13.0	11.0	15.0	15.0	17.1	18.0	17.1
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°	3812.7	3812.7	3812.7	3812.7	3812.7	3812.7	3812.7	3812.7	3812.7	3812.7	3812.7
2.5°	3246.5	3290.6	3385.8	3457.9	3546.1	3653.4	3779.7	3906.9	4044.3	4087.3	4147.5
5°	2686.2	2796.4	2842.5	2973.8	3104.1	3299.6	3508.1	3749.6	4014.2	4141.5	4263.7
7.5°	2295.3	2354.4	2402.5	2498.7	2655.1	2892.6	3154.2	3455.9	3830.7	4016.2	4195.6
10°	2084.8	2090.8	2150.0	2269.2	2405.5	2615.0	2862.6	3200.4	3618.3	3843.8	4054.3
12.5°	1945.4	1919.4	1983.6	2107.8	2262.2	2455.6	2683.2	3004.9	3464.9	3696.5	3951.0
15°	1823.2	1782.1	1830.2	1957.5	2109.9	2337.3	2581.9	2922.7	3404.8	3674.4	3957.0
17.5°	1826.2	1712.9	1730.0	1837.2	1988.6	2220.1	2516.8	2919.7	3496.0	3806.7	4141.5
20°	2051.7	1870.3	1793.1	1813.2	1959.5	2212.1	2546.9	3060.0	3795.7	4248.7	4606.5
22.5°	2273.2	2164.0	2039.6	1998.6	2078.8	2343.4	2738.3	3391.8	4447.2	5129.7	5776.3
25°	2196.0	2289.3	2258.2	2200.1	2218.1	2437.6	2868.6	3664.4	4953.3	5722.1	6329.5
27.5°	1757.1	1926.4	1960.5	1959.5	1966.5	2146.9	2579.9	3481.0	5016.5	5835.4	6415.7
30°	1234.8	1249.9	1267.9	1303.0	1335.1	1496.4	2018.7	3056.0	4988.4	5886.5	6467.8
32.5°	891.1	911.1	936.2	984.2	1060.4	1265.9	1766.1	2920.7	5136.8	6098.0	6620.2
35°	814.9	837.9	862.0	917.1	989.2	1179.7	1665.8	2864.5	5380.3	6440.7	6893.8
37.5°	790.8	816.9	837.9	878.0	936.2	1117.6	1574.6	2826.5	5629.9	6803.6	7260.6
40°	773.8	803.8	820.9	852.9	893.0	1060.4	1493.4	2796.4	5871.5	7135.3	7555.3
42.5°	758.7	789.8	811.9	834.9	868.0	1009.3	1421.2	2766.3	6080.9	7457.1	7848.9
45°	740.7	779.8	807.8	825.9	855.0	966.2	1366.1	2742.3	6319.5	7742.8	8145.6
47.5°	725.7	768.7	803.8	824.9	835.9	936.2	1322.0	2775.3	6606.2	8041.4	8421.3
50°	726.7	767.7	811.9	844.9	815.9	911.1	1295.0	2906.7	6979.0	8396.3	8638.8
52.5°	758.7	808.8	843.9	852.0	787.8	881.0	1280.9	3136.1	7420.0	8709.9	8858.3
55°	794.8	847.0	885.0	880.0	772.7	842.9	1277.9	3380.8	7903.1	9075.8	9144.0
57.5°	781.8	857.9	916.1	890.0	773.8	805.9	1264.9	3578.2	8307.0	9349.4	9426.6
58°	777.8	853.9	920.1	888.0	770.8	794.8	1261.9	3595.2	8363.1	9368.4	9466.7
60°	738.7	818.9	917.1	873.0	753.7	764.8	1228.8	3650.3	8348.1	9270.3	9490.7
62.5°	667.5	733.7	847.9	799.8	701.6	724.7	1154.6	3582.2	7941.2	8797.2	9138.9
65°	587.3	636.4	712.6	703.6	627.4	683.6	1053.4	3312.6	7126.3	8029.4	8389.2
67.5°	527.2	567.3	615.4	602.4	564.3	628.4	944.1	2856.5	6212.2	7107.3	7560.3
70°	466.0	497.1	521.2	512.2	500.2	574.3	847.0	2318.3	5336.2	6231.3	6670.3
72.5°	403.9	433.0	453.0	440.0	433.0	517.2	767.7	1799.1	4214.7	5140.8	5705.1
75°	337.8	366.8	380.9	365.8	361.8	456.0	650.5	1344.1	3162.2	3963.1	4450.2
77.5°	261.6	292.7	310.7	305.7	307.7	374.8	525.2	920.1	2261.1	2701.2	3214.4
80°	183.5	217.5	229.5	224.5	238.6	285.6	370.8	584.4	1559.6	1753.0	2114.9
82.5°	113.2	145.3	147.4	152.4	162.4	211.5	279.6	355.8	979.2	1012.3	1275.0
85°	57.2	69.1	74.2	82.2	91.2	129.3	159.3	220.5	630.5	477.1	712.6
87.5°	19.0	20.0	24.0	30.1	37.1	53.1	68.1	90.2	156.4	86.2	220.5
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°	3812.7	3812.7	3812.7	3812.7	3812.7	3812.7	3812.7	3812.7	3812.7	3812.7
2.5°	4268.8	4353.9	4416.1	4473.3	4418.2	4413.1	4359.0	4271.8	4235.7	4235.7
5°	4520.3	4719.8	4881.2	4984.4	4940.3	4834.1	4658.7	4435.1	4314.9	4293.8
7.5°	4589.6	4983.4	5283.1	5389.3	5315.2	5080.7	4744.9	4368.0	4195.6	4157.5
10°	4547.4	5059.6	5499.6	5668.0	5564.8	5209.9	4751.9	4289.8	4077.3	4033.2
12.5°	4503.3	5069.6	5539.7	5783.2	5716.1	5314.1	4803.0	4238.7	3993.1	3930.0
15°	4535.4	5073.6	5490.6	5742.1	5785.3	5439.5	4887.2	4275.8	3976.1	3909.0
17.5°	4737.9	5149.8	5420.4	5623.9	5775.3	5609.9	5126.8	4453.2	4128.4	4045.3
20°	5160.8	5332.2	5460.5	5617.9	5861.5	5957.6	5616.9	4940.3	4556.4	4483.3
22.5°	6385.6	6354.6	6092.0	6088.9	6441.7	6827.7	6804.6	5930.6	5353.3	5293.2
25°	6844.7	6700.4	6320.5	6228.3	6383.6	6979.0	6892.8	6133.1	5599.9	5453.5
27.5°	6665.3	6307.5	6057.9	6036.9	5985.7	6548.0	6755.5	6215.2	5686.1	5543.7
30°	6654.2	6128.1	5771.3	5813.3	5862.4	6399.7	6831.7	6472.8	5906.6	5754.2
32.5°	6681.3	6153.1	5792.2	5800.3	5946.7	6421.7	6915.8	6753.5	6196.2	6043.8
35°	6790.6	6295.4	5926.6	5907.5	6136.1	6566.1	7059.1	7194.5	6592.1	6418.7
37.5°	6967.0	6579.1	6172.2	6167.1	6498.9	6826.7	7237.6	7639.5	6986.0	6799.6
40°	7226.5	6910.8	6609.1	6582.1	6992.0	7250.6	7469.1	8113.6	7444.1	7204.5
42.5°	7540.3	7308.8	7185.4	7292.7	7686.6	7726.7	7829.9	8551.6	7833.9	7555.3
45°	7830.9	7819.9	7991.3	8276.0	8505.5	8265.0	8206.8	8845.2	8136.6	7833.9
47.5°	8176.7	8475.4	8992.6	9409.5	9650.1	8891.4	8528.5	9036.7	8357.1	8078.5
50°	8527.6	9260.2	10086.1	10667.4	10718.6	9571.9	8750.0	9217.1	8557.6	8267.9
52.5°	8896.4	9886.6	10986.2	11661.7	11562.5	10164.3	8964.6	9339.4	8764.1	8509.5
55°	9217.1	10270.5	11489.4	12137.8	11992.5	10525.1	9196.1	9471.7	9058.8	8844.3
57.5°	9396.5	10302.6	11364.1	11930.3	11773.0	10454.9	9302.4	9569.9	9247.2	9078.8
58°	9422.6	10259.5	11252.8	11810.1	11649.7	10395.8	9301.3	9565.9	9259.2	9089.8
60°	9399.5	9979.9	10838.8	11334.9	11166.6	10025.0	9263.2	9490.7	9106.8	8963.5
62.5°	9186.1	9494.7	10124.2	10485.0	10436.9	9445.6	9106.8	9207.1	8642.8	8504.5
65°	8905.4	8833.3	9209.1	9464.7	9500.8	9011.6	8951.5	8593.7	8047.4	7852.0
67.5°	8564.6	8083.5	8082.5	8227.8	8288.0	8344.1	8627.8	7927.2	7189.5	6983.0
70°	7986.3	6927.9	6609.1	6780.5	6730.4	7204.5	8049.5	6991.0	6155.1	5913.5
72.5°	6925.9	5497.6	4987.4	5208.0	5081.7	5650.0	7043.2	5753.2	5089.7	4793.0
75°	5613.9	4112.4	3586.2	3788.7	3710.5	4285.8	5860.4	4178.6	3650.3	3537.1
77.5°	4359.0	2979.9	2674.1	2646.1	2704.2	3189.3	4298.8	2821.5	2406.6	2329.3
80°	2800.4	2132.9	2150.9	2114.9	2145.0	2010.6	2610.0	1800.1	1629.7	1567.6
82.5°	1843.3	1486.4	1772.1	1635.8	1553.6	1352.1	1712.0	1178.7	1000.3	966.2
85°	1255.9	1094.5	996.3	761.8	897.1	1041.4	1284.0	634.5	503.2	456.0
87.5°	567.3	380.9	279.6	172.4	272.6	314.7	623.4	74.2	57.2	59.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)