

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: P647946

Luminaire Tested: **GALN-SA5A-835-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647946
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-SA5A-835-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 615mA 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: 15457.2 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

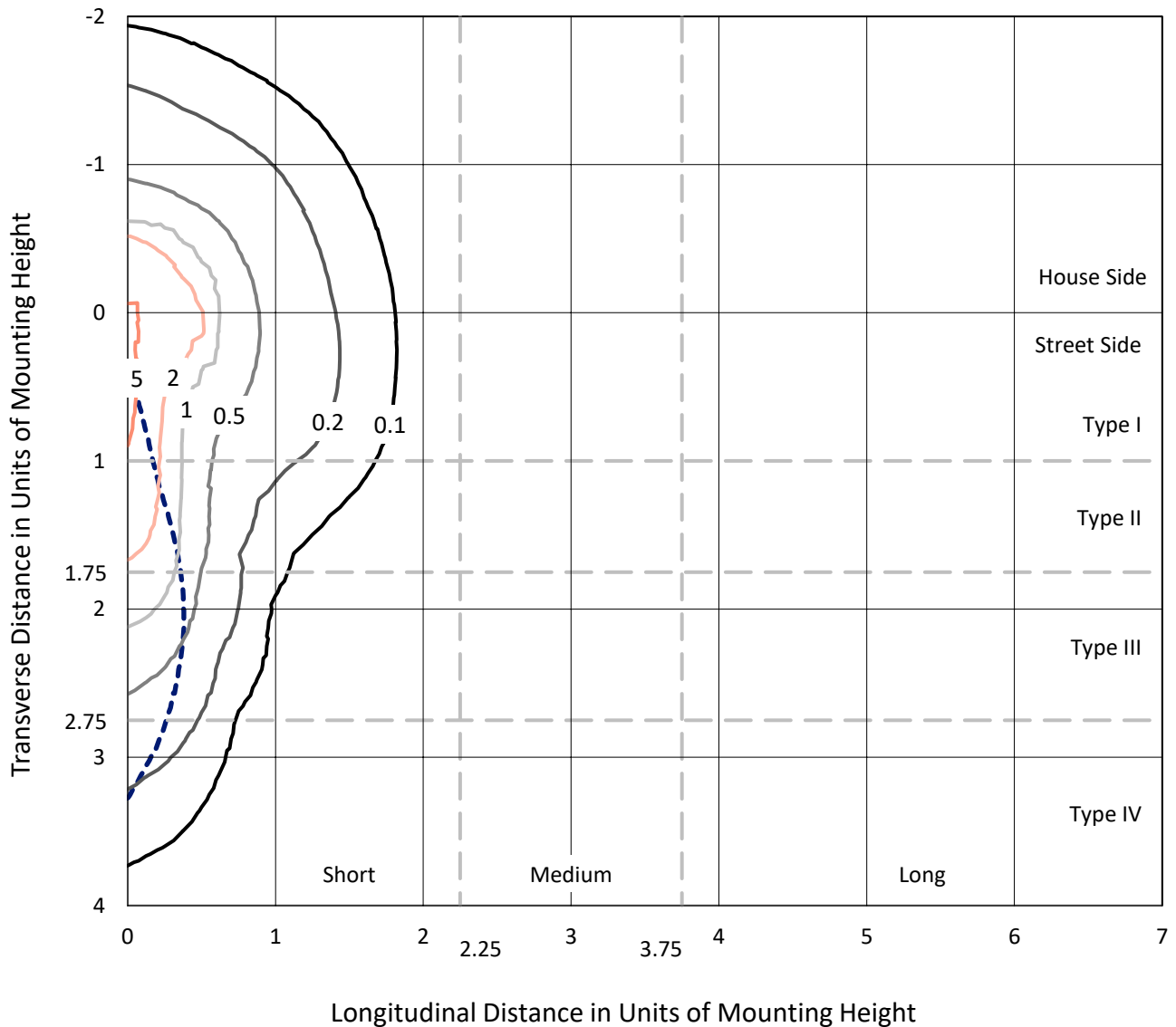
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

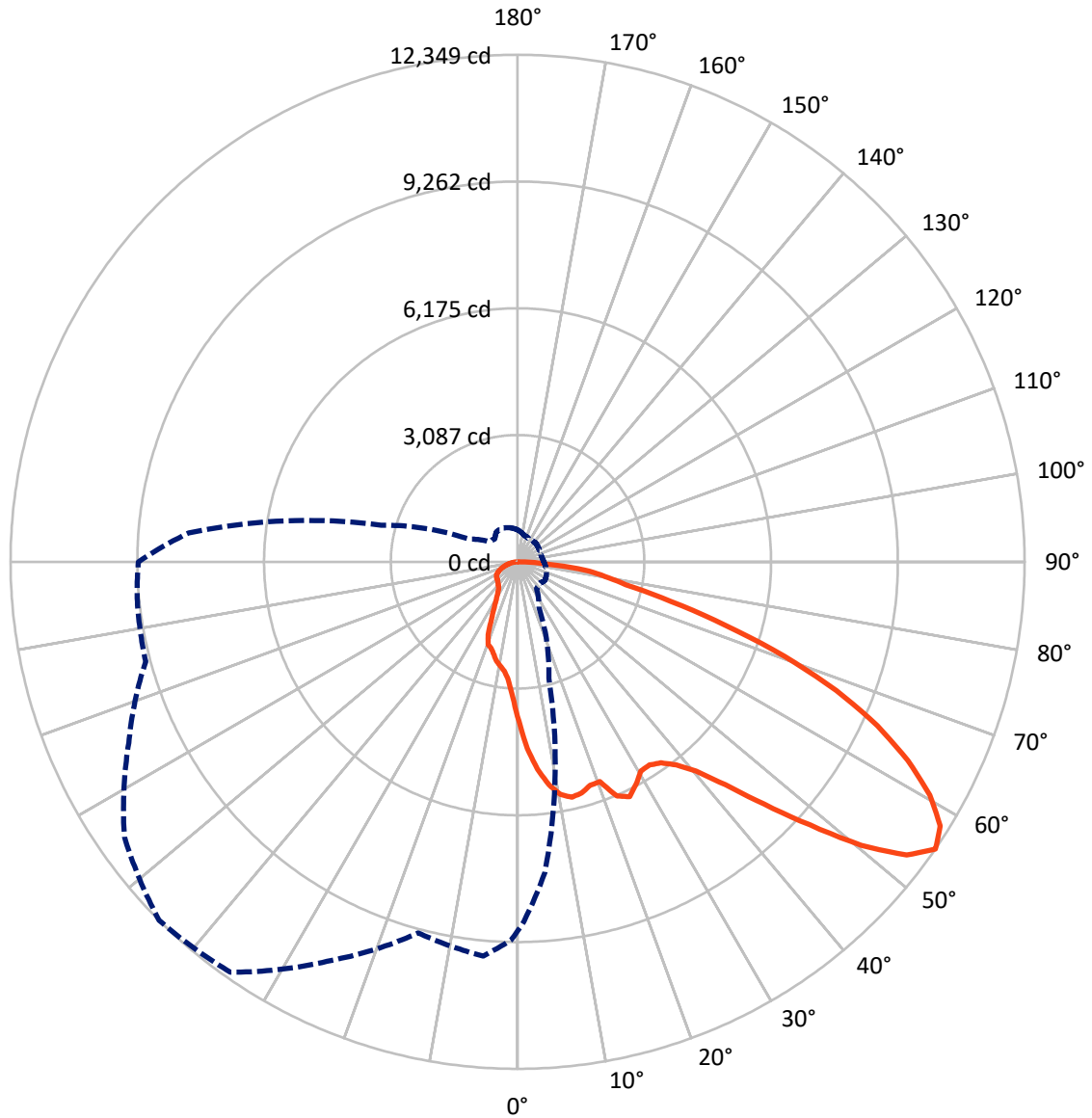
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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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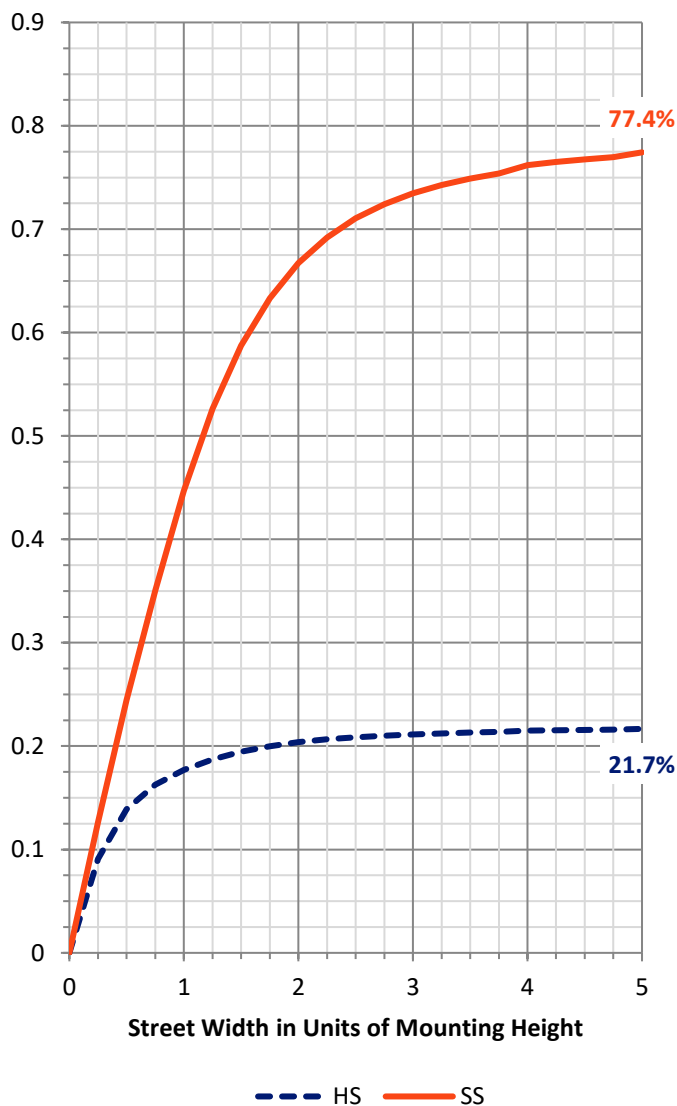
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3381.2	0.0	3381.2
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	12076.0	0.0	12076.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	15457.2	0.0	15457.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.8	2.1
10°-20°	872.2	5.6
20°-30°	1506.8	9.7
30°-40°	1751.2	11.3
40°-50°	2443.2	15.8
50°-60°	3315.2	21.4
60°-70°	3154.0	20.4
70°-80°	1703.9	11.0
80°-90°	381.9	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°	15457.2	100.0
0°-180°	15457.2	100.0

Coefficient of Utilization



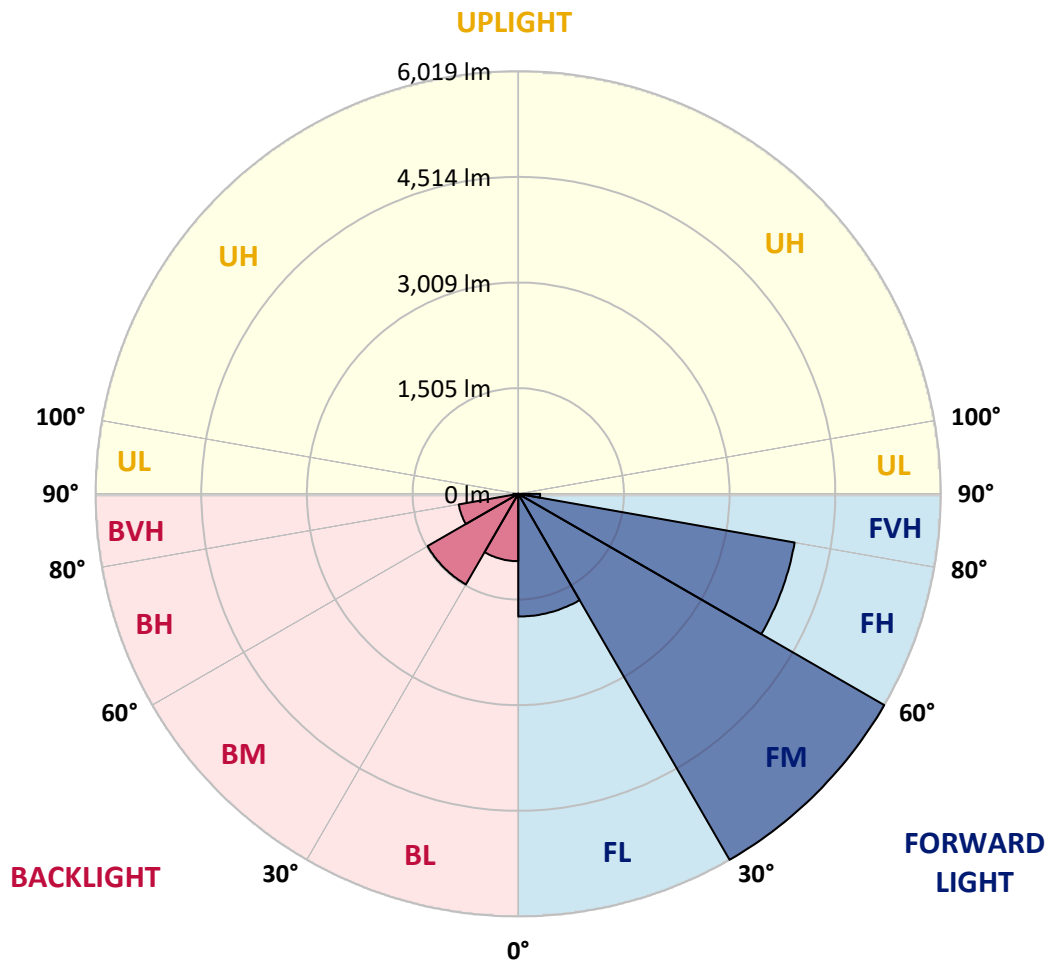
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1748.2	11.3			
FM (30°-60°)	6018.7	38.9			
FH (60°-80°)	3997.0	25.9			G2/5000
FVH (80°-90°)	312.1	2.0			G3/500
BL (0°-30°)	959.6	6.2	B2/1000		
BM (30°-60°)	1490.9	9.6	B2/2500		
BH (60°-80°)	860.9	5.6	B2/1000		G2/1000
BVH (80°-90°)	69.8	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°	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1
2.5°	4309.5	4293.2	4247.3	4127.0	4005.6	3882.2	3787.4	3669.1	3545.7	3479.4	3394.8
5°	4368.7	4350.3	4242.2	3970.9	3725.2	3467.2	3261.2	3080.7	3007.3	2899.1	2812.5
7.5°	4229.9	4221.8	4059.6	3670.1	3333.6	2996.1	2762.5	2617.7	2486.2	2437.2	2447.4
10°	4103.5	4070.9	3867.9	3359.1	2966.5	2692.2	2524.9	2383.1	2290.4	2265.9	2271.0
12.5°	3998.5	3954.6	3714.9	3150.0	2806.4	2587.1	2374.0	2226.1	2141.5	2164.9	2244.5
15°	3977.0	3917.9	3650.7	3078.7	2718.7	2436.2	2202.7	2032.4	1969.2	2020.1	2147.6
17.5°	4115.8	4041.3	3760.8	3102.1	2635.0	2282.2	1995.6	1800.9	1747.9	1829.5	1995.6
20°	4561.4	4451.3	4104.5	3237.7	2626.9	2205.7	1875.4	1679.5	1702.0	1857.0	2030.3
22.5°	5385.3	5220.1	4706.1	3435.6	2669.7	2186.4	1850.9	1748.9	1872.3	2003.9	2118.0
25°	5548.5	5419.0	4814.3	3480.4	2660.6	2173.1	1920.2	1971.2	2108.9	2174.2	2134.4
27.5°	5640.3	5492.4	4807.2	3258.1	2379.1	1971.2	1835.6	1920.2	1954.8	1891.6	1783.5
30°	5854.4	5700.5	4928.5	3024.6	1959.0	1462.3	1281.8	1247.2	1270.7	1282.9	1244.1
32.5°	6149.1	5997.2	5156.9	2871.7	1693.8	1209.4	1032.0	983.1	971.9	958.5	943.3
35°	6530.5	6297.0	5381.2	2773.7	1584.7	1118.7	955.5	917.8	902.5	884.2	867.8
37.5°	6918.0	6673.3	5664.8	2670.7	1512.3	1055.5	904.5	887.2	860.7	841.3	817.8
40°	7330.0	7055.7	5922.8	2581.0	1442.0	1014.7	867.8	865.8	831.1	808.7	781.1
42.5°	7686.9	7404.4	6153.2	2526.0	1387.9	971.9	845.4	851.5	815.8	782.1	746.4
45°	7970.4	7693.1	6366.3	2526.0	1344.0	929.0	841.3	837.2	801.6	759.7	719.0
47.5°	8219.2	7932.7	6574.4	2590.2	1316.5	893.3	818.9	826.0	789.3	736.3	696.5
50°	8412.0	8159.1	6854.8	2690.2	1289.0	864.7	790.3	829.0	779.1	724.0	678.2
52.5°	8657.7	8431.3	7192.3	2826.8	1265.5	833.1	764.8	829.0	778.1	725.1	675.1
55°	8998.3	8759.7	7599.2	2939.9	1227.8	803.6	742.4	805.6	775.0	720.0	667.0
57.5°	9237.0	9058.5	7886.8	3015.4	1173.7	765.9	722.0	783.2	761.8	700.6	642.5
58°	9248.2	9073.8	7928.6	3032.8	1160.5	758.7	716.9	773.0	755.7	692.4	634.3
60°	9119.7	8969.8	7936.8	3008.3	1085.0	723.0	690.4	731.2	723.0	644.5	590.5
62.5°	8652.6	8492.5	7607.4	2809.4	985.1	679.2	649.6	675.1	656.7	577.1	527.2
65°	7988.8	7694.1	6930.3	2497.4	913.7	632.3	594.5	596.6	577.1	520.1	476.2
67.5°	7104.6	6775.3	5867.6	2104.8	859.7	580.2	529.2	524.1	500.7	464.0	428.3
70°	6016.6	5791.2	4768.4	1712.2	799.5	523.1	455.9	452.8	438.5	411.0	379.4
72.5°	4876.4	4589.9	3850.6	1370.6	726.1	468.1	387.5	393.6	375.3	355.9	327.4
75°	3598.7	3411.1	2976.7	1099.3	627.2	407.9	323.3	325.3	317.1	296.8	274.3
77.5°	2369.9	2313.8	2129.3	722.0	482.3	324.3	264.1	266.1	260.0	241.7	218.2
80°	1594.9	1557.2	1443.0	465.0	322.2	234.5	204.0	206.0	205.0	185.6	154.0
82.5°	983.1	966.7	930.0	314.1	223.3	168.3	134.6	140.7	152.0	130.5	105.0
85°	464.0	465.0	561.9	171.3	131.5	108.1	73.4	78.5	78.5	78.5	59.1
87.5°	60.1	63.2	77.5	72.4	47.9	40.8	26.5	22.5	19.3	25.5	18.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1
2.5°	3365.2	3344.8	3301.0	3290.8	3284.6	3302.0	3256.1	3268.3	3248.0	3305.0	3295.9
5°	2817.6	2819.7	2855.3	2878.8	2886.9	2878.8	2848.2	2795.2	2754.4	2738.1	2742.1
7.5°	2428.0	2463.7	2524.9	2593.2	2655.5	2673.8	2656.5	2555.5	2445.4	2376.0	2353.6
10°	2298.5	2346.5	2416.8	2470.8	2526.0	2569.8	2579.0	2500.4	2369.9	2205.7	2141.5
12.5°	2305.7	2370.9	2438.3	2455.6	2450.5	2467.8	2459.6	2446.4	2360.7	2151.7	2044.6
15°	2238.4	2315.9	2362.8	2353.6	2337.3	2322.0	2300.5	2266.9	2236.3	2089.5	1971.2
17.5°	2083.3	2162.9	2201.6	2204.7	2204.7	2200.6	2148.6	2136.4	2132.3	2060.9	1988.5
20°	2111.9	2155.8	2138.5	2109.9	2118.0	2145.6	2115.0	2108.9	2132.3	2163.9	2150.7
22.5°	2128.2	2112.9	1982.4	1855.9	1827.4	1913.0	1930.4	1998.7	2093.6	2207.7	2282.2
25°	2027.3	1903.9	1670.4	1527.6	1447.1	1526.5	1630.6	1757.1	1898.8	2045.7	2132.3
27.5°	1694.8	1601.0	1433.8	1305.3	1234.9	1247.2	1335.9	1451.1	1582.7	1681.6	1744.8
30°	1276.8	1234.9	1148.3	1104.4	1061.6	1051.3	1089.1	1132.9	1191.1	1203.3	1219.6
32.5°	940.2	934.1	939.2	925.0	916.7	915.7	904.5	914.7	920.8	928.0	913.7
35°	850.5	842.4	828.0	824.0	818.9	820.9	815.8	810.7	814.8	820.9	825.0
37.5°	804.6	792.3	772.0	764.8	764.8	767.9	759.7	757.7	764.8	784.2	794.4
40°	768.9	754.7	731.2	722.0	728.1	736.3	725.1	721.0	738.3	758.7	775.0
42.5°	735.2	724.0	701.6	691.4	696.5	711.8	695.5	692.4	714.9	737.3	756.7
45°	706.7	695.5	675.1	670.0	672.0	686.3	675.1	675.1	696.5	721.0	738.3
47.5°	684.3	670.0	656.7	652.6	654.7	662.8	660.8	660.8	681.2	706.7	724.0
50°	661.8	649.6	632.3	634.3	639.4	650.6	649.6	652.6	673.1	704.6	723.0
52.5°	651.6	633.3	613.9	615.9	631.3	644.5	640.4	643.5	667.0	726.1	752.5
55°	640.4	615.9	593.5	596.6	613.9	633.3	628.2	632.3	659.8	740.3	777.0
57.5°	619.0	590.5	566.0	568.0	593.5	613.9	605.7	610.8	643.5	725.1	763.8
58°	609.8	585.4	561.9	562.9	587.4	609.8	600.6	604.7	638.4	721.0	757.7
60°	571.0	556.8	536.4	537.4	560.9	580.2	575.1	579.2	611.8	691.4	719.0
62.5°	518.0	509.9	504.8	504.8	519.1	537.4	542.5	547.6	577.1	625.1	649.6
65°	461.0	461.0	462.0	462.0	471.1	494.6	497.7	510.9	538.5	561.9	580.2
67.5°	422.2	420.2	422.2	417.1	421.2	435.4	450.7	463.0	491.5	507.9	514.0
70°	372.2	371.2	372.2	365.0	370.2	382.4	392.6	413.0	442.6	454.8	457.9
72.5°	323.3	323.3	325.3	320.2	320.2	333.5	340.6	363.0	390.6	397.7	398.7
75°	272.2	275.3	275.3	268.2	270.2	278.4	287.6	305.9	331.4	336.5	336.5
77.5°	216.2	227.4	227.4	220.3	223.3	224.3	236.6	245.8	265.1	267.2	259.0
80°	157.1	168.3	177.4	171.3	176.4	170.3	177.4	183.5	203.0	193.8	180.5
82.5°	112.2	120.3	127.5	128.5	123.4	112.2	121.4	122.4	131.5	119.3	112.2
85°	62.2	69.4	78.5	74.5	66.3	59.1	62.2	64.2	63.2	60.1	56.1
87.5°	16.3	17.3	19.3	14.3	13.2	11.2	15.3	15.3	17.3	18.3	17.3
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°	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1
2.5°	3303.0	3347.9	3444.7	3518.2	3607.9	3717.0	3845.5	3975.0	4114.7	4158.6	4219.7
5°	2733.0	2845.1	2892.0	3025.6	3158.2	3357.0	3569.1	3814.9	4084.1	4213.6	4338.1
7.5°	2335.2	2395.4	2444.4	2542.2	2701.4	2943.0	3209.2	3516.1	3897.5	4086.2	4268.7
10°	2121.1	2127.2	2187.4	2308.8	2447.4	2660.6	2912.4	3256.1	3681.4	3910.8	4124.9
12.5°	1979.3	1952.8	2018.1	2144.6	2301.6	2498.4	2729.9	3057.2	3525.3	3760.8	4019.8
15°	1854.9	1813.1	1862.1	1991.6	2146.6	2378.0	2626.9	2973.6	3464.1	3738.4	4026.0
17.5°	1858.0	1742.8	1760.1	1869.2	2023.2	2258.8	2560.6	2970.5	3556.9	3873.0	4213.6
20°	2087.5	1902.8	1824.3	1844.7	1993.6	2250.6	2591.2	3113.3	3861.8	4322.8	4686.8
22.5°	2312.8	2201.6	2075.2	2033.4	2115.0	2384.2	2786.0	3450.8	4524.6	5219.1	5876.9
25°	2234.3	2329.1	2297.5	2238.4	2256.7	2480.1	2918.6	3728.3	5039.6	5821.8	6439.8
27.5°	1787.7	1960.0	1994.6	1993.6	2000.8	2184.3	2624.9	3541.6	5103.9	5937.0	6527.5
30°	1256.3	1271.7	1290.0	1325.7	1358.3	1522.5	2053.8	3109.2	5075.3	5989.0	6580.5
32.5°	906.6	927.0	952.4	1001.4	1078.9	1288.0	1796.8	2971.6	5226.3	6204.2	6735.5
35°	829.0	852.5	877.0	933.1	1006.5	1200.3	1694.8	2914.5	5474.0	6552.9	7013.9
37.5°	804.6	831.1	852.5	893.3	952.4	1137.0	1602.0	2875.7	5728.0	6922.1	7387.1
40°	787.2	817.8	835.1	867.8	908.6	1078.9	1519.4	2845.1	5973.7	7259.7	7686.9
42.5°	772.0	803.6	826.0	849.5	883.1	1026.9	1446.0	2814.5	6186.9	7587.0	7985.7
45°	753.6	793.3	821.9	840.3	869.8	983.1	1389.9	2790.1	6429.6	7877.6	8287.6
47.5°	738.3	782.1	817.8	839.3	850.5	952.4	1345.0	2823.7	6721.2	8181.5	8568.0
50°	739.3	781.1	826.0	859.7	830.1	927.0	1317.6	2957.3	7100.6	8542.5	8789.3
52.5°	772.0	822.9	858.6	866.8	801.6	896.4	1303.2	3190.8	7549.3	8861.7	9012.6
55°	808.7	861.7	900.4	895.4	786.2	857.6	1300.2	3439.6	8040.8	9233.9	9303.2
57.5°	795.4	872.9	932.1	905.5	787.2	819.9	1286.9	3640.6	8451.8	9512.3	9590.8
58°	791.3	868.8	936.2	903.5	784.2	808.7	1283.9	3657.9	8508.9	9531.7	9631.6
60°	751.5	833.1	933.1	888.2	766.9	778.1	1250.2	3713.9	8493.5	9431.7	9656.1
62.5°	679.2	746.4	862.7	813.8	713.9	737.3	1174.7	3644.6	8079.5	8950.4	9298.1
65°	597.6	647.5	725.1	715.9	638.4	695.5	1071.8	3370.3	7250.5	8169.3	8535.3
67.5°	536.4	577.1	626.2	612.9	574.1	639.4	960.6	2906.3	6320.5	7231.1	7692.0
70°	474.2	505.8	530.2	521.1	508.9	584.4	861.7	2358.7	5429.2	6339.8	6786.5
72.5°	411.0	440.5	461.0	447.6	440.5	526.2	781.1	1830.5	4288.1	5230.4	5804.5
75°	343.7	373.3	387.5	372.2	368.2	464.0	661.8	1367.5	3217.3	4032.1	4527.7
77.5°	266.1	297.8	316.1	311.0	313.0	381.4	534.3	936.2	2300.5	2748.3	3270.4
80°	186.6	221.3	233.5	228.4	242.7	290.6	377.3	594.5	1586.7	1783.5	2151.7
82.5°	115.3	147.8	149.9	155.0	165.2	215.2	284.5	362.0	996.3	1030.0	1297.1
85°	58.1	70.4	75.5	83.6	92.8	131.5	162.2	224.3	641.4	485.4	725.1
87.5°	19.3	20.4	24.5	30.6	37.7	54.0	69.4	91.8	159.1	87.7	224.3
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1	3879.1
2.5°	4343.1	4429.8	4493.0	4551.2	4495.1	4490.0	4434.9	4346.2	4309.5	4309.5
5°	4599.1	4802.1	4966.2	5071.3	5026.4	4918.3	4739.8	4512.4	4390.0	4368.7
7.5°	4669.5	5070.2	5375.1	5483.2	5407.8	5169.1	4827.5	4444.1	4268.7	4229.9
10°	4626.7	5147.8	5595.4	5766.7	5661.7	5300.7	4834.6	4364.5	4148.3	4103.5
12.5°	4581.8	5157.9	5636.2	5884.0	5815.7	5406.8	4886.7	4312.5	4062.7	3998.5
15°	4614.4	5162.0	5586.2	5842.2	5886.0	5534.2	4972.4	4350.3	4045.4	3977.0
17.5°	4820.4	5239.5	5514.8	5721.9	5875.9	5707.6	5216.0	4530.8	4200.4	4115.8
20°	5250.7	5425.1	5555.6	5715.7	5963.6	6061.4	5714.7	5026.4	4635.8	4561.4
22.5°	6496.9	6465.2	6198.1	6195.0	6553.9	6946.6	6923.1	6033.9	5446.5	5385.3
25°	6963.9	6817.1	6430.6	6336.7	6494.8	7100.6	7012.9	6239.9	5697.3	5548.5
27.5°	6781.4	6417.3	6163.4	6142.0	6090.0	6662.1	6873.2	6323.5	5785.1	5640.3
30°	6770.1	6234.8	5871.8	5914.6	5964.6	6511.1	6950.7	6585.6	6009.4	5854.4
32.5°	6797.7	6260.3	5893.2	5901.3	6050.2	6533.6	7036.4	6871.1	6304.2	6149.1
35°	6908.9	6405.1	6029.8	6010.5	6242.9	6680.4	7182.1	7319.8	6706.9	6530.5
37.5°	7088.3	6693.7	6279.7	6274.6	6612.1	6945.5	7363.6	7772.6	7107.7	6918.0
40°	7352.4	7031.2	6724.2	6696.8	7113.8	7377.0	7599.2	8254.9	7573.7	7330.0
42.5°	7671.6	7436.1	7310.6	7419.8	7820.5	7861.3	7966.3	8700.5	7970.4	7686.9
45°	7967.3	7956.1	8130.5	8420.1	8653.6	8409.0	8349.8	8999.3	8278.3	7970.4
47.5°	8319.1	8623.1	9149.3	9573.5	9818.2	9046.2	8677.1	9194.1	8502.8	8219.2
50°	8676.1	9421.5	10261.8	10853.2	10905.3	9738.6	8902.5	9377.7	8706.6	8412.0
52.5°	9051.3	10058.9	11177.6	11864.9	11763.9	10341.3	9120.7	9502.1	8916.7	8657.7
55°	9377.7	10449.4	11689.5	12349.2	12201.4	10708.5	9356.3	9636.7	9216.5	8998.3
57.5°	9560.2	10482.1	11562.0	12138.1	11978.1	10637.1	9464.4	9736.6	9408.3	9237.0
58°	9586.7	10438.3	11448.8	12015.8	11852.7	10576.9	9463.3	9732.5	9420.5	9248.2
60°	9563.2	10153.7	11027.6	11532.4	11361.1	10199.6	9424.6	9656.1	9265.5	9119.7
62.5°	9346.0	9660.2	10300.6	10667.7	10618.7	9610.2	9265.5	9367.5	8793.3	8652.6
65°	9060.6	8987.1	9369.5	9629.6	9666.3	9168.6	9107.5	8743.4	8187.6	7988.8
67.5°	8713.9	8224.3	8223.3	8371.2	8432.4	8489.4	8778.1	8065.3	7314.7	7104.6
70°	8125.4	7048.6	6724.2	6898.6	6847.6	7330.0	8189.6	7112.8	6262.4	6016.6
72.5°	7046.5	5593.4	5074.3	5298.6	5170.1	5748.4	7165.9	5853.4	5178.3	4876.4
75°	5711.7	4184.0	3648.7	3854.7	3775.2	4360.4	5962.5	4251.4	3713.9	3598.7
77.5°	4434.9	3031.7	2720.7	2692.2	2751.3	3244.8	4373.8	2870.6	2448.4	2369.9
80°	2849.2	2170.0	2188.4	2151.7	2182.3	2045.7	2655.5	1831.5	1658.2	1594.9
82.5°	1875.4	1512.3	1802.9	1664.3	1580.6	1375.7	1741.7	1199.2	1017.7	983.1
85°	1277.8	1113.6	1013.7	775.0	912.7	1059.6	1306.3	645.5	511.9	464.0
87.5°	577.1	387.5	284.5	175.4	277.3	320.2	634.3	75.5	58.1	60.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)