

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: P532658

Luminaire Tested: **GALN-SA8A-735-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532658
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-SA8A-735-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA 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: 25620 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

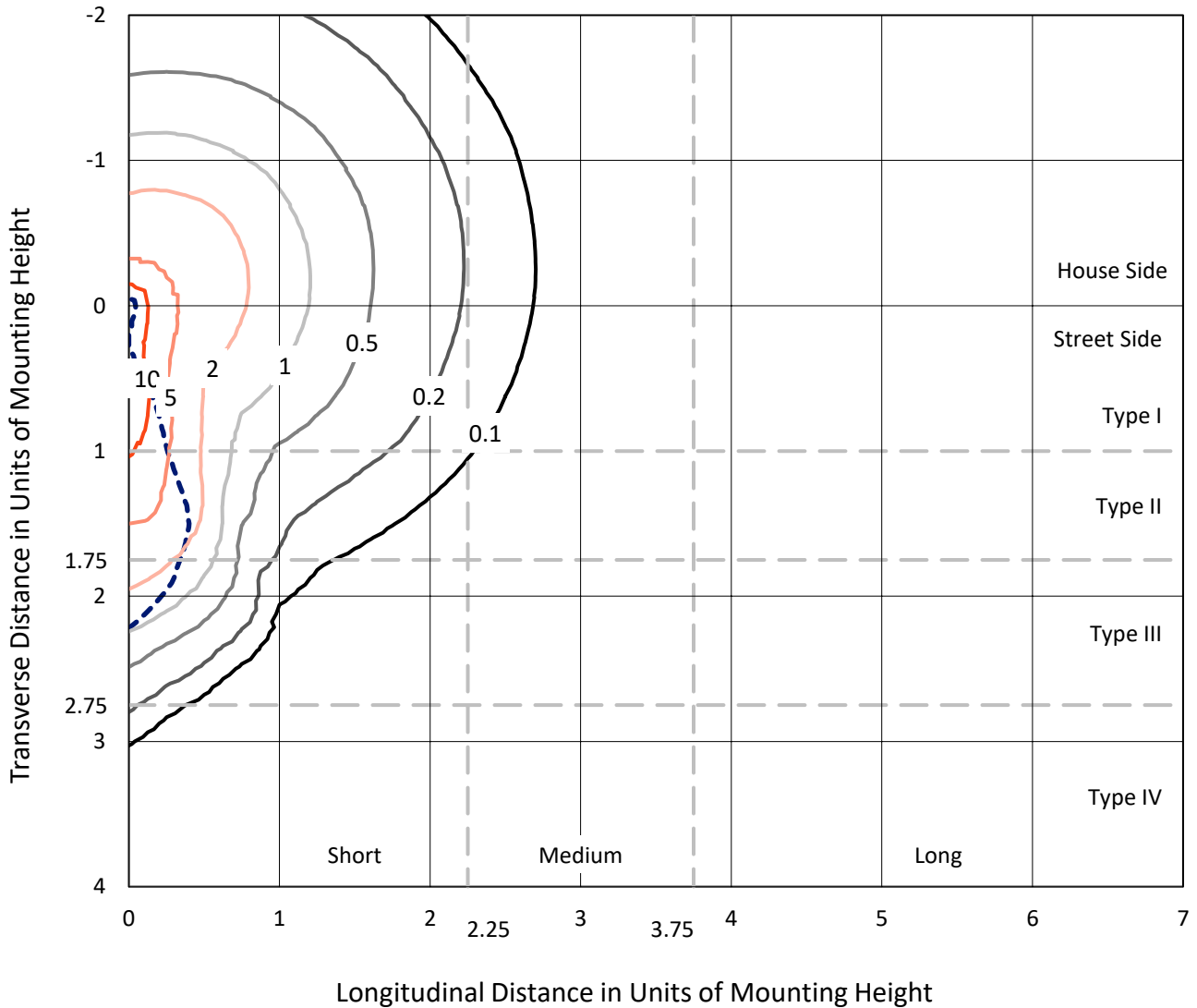
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

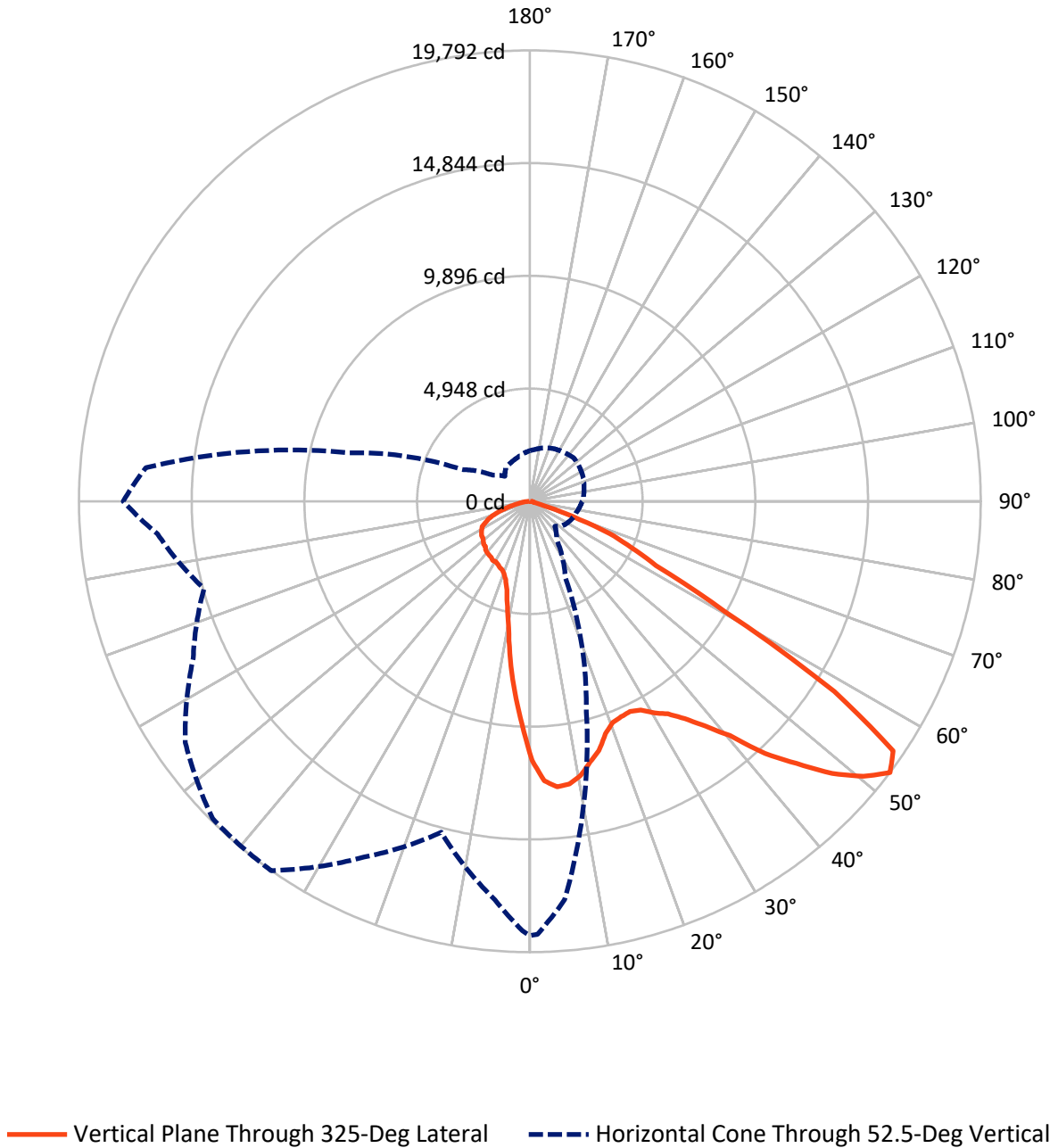
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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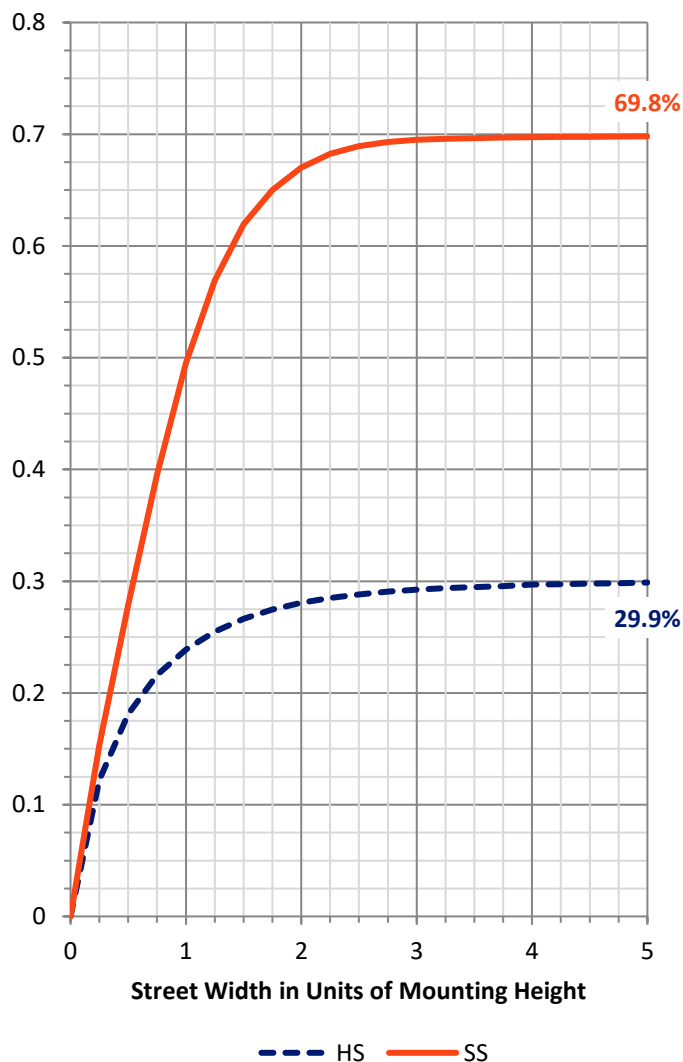
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7723.4	0.0	7723.4
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	17896.6	0.0	17896.6
	% Fixture	69.9	0.0	69.9
Total	Lumens	25620.0	0.0	25620.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	867.5	3.4
10°-20°	1880.5	7.3
20°-30°	2841.3	11.1
30°-40°	4105.8	16.0
40°-50°	5464.1	21.3
50°-60°	6111.7	23.9
60°-70°	3444.5	13.4
70°-80°	767.8	3.0
80°-90°	136.7	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°	25620.0	100.0
0°-180°	25620.0	100.0

Coefficient of Utilization



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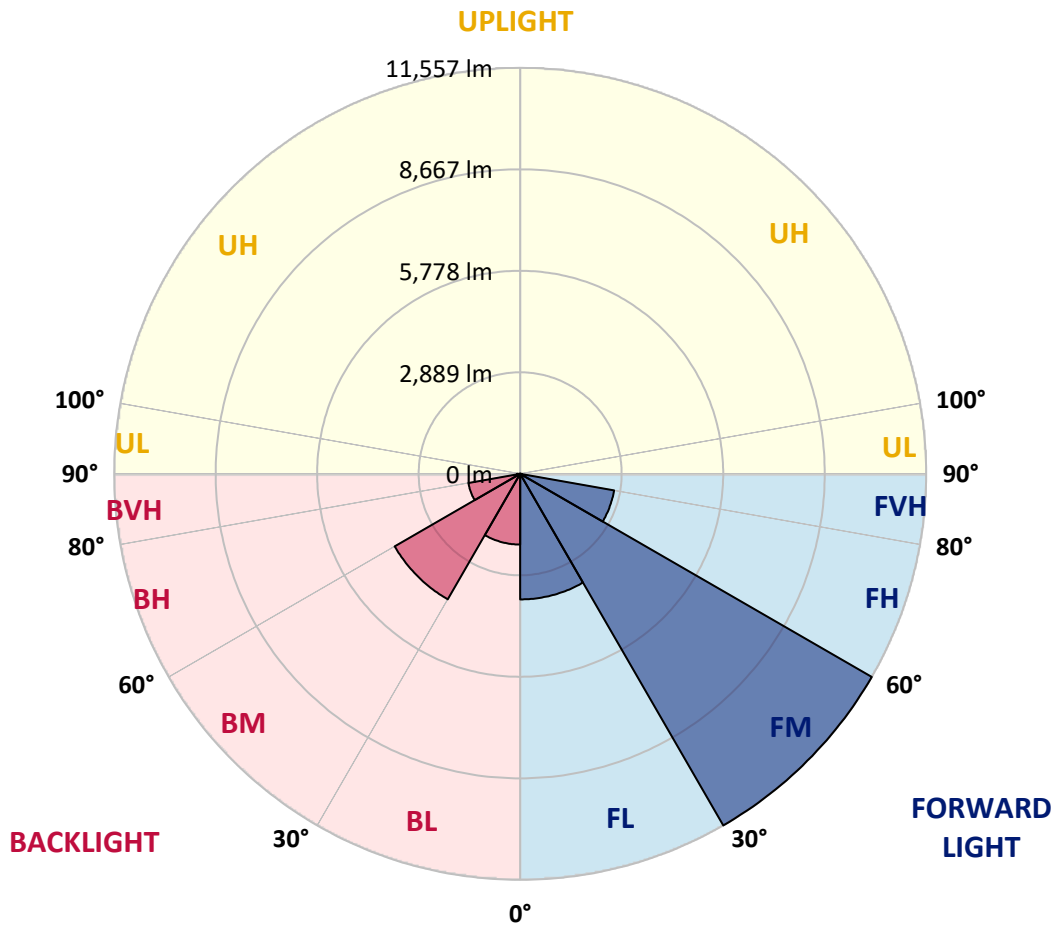
CATALOG NUMBER: GALN-SA8A-735-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3575.2	14.0			
FM (30°-60°)	11556.6	45.1			
FH (60°-80°)	2715.3	10.6			G2/5000
FVH (80°-90°)	49.5	0.2			G1/100
BL (0°-30°)	2014.1	7.9	B3/2500		
BM (30°-60°)	4125.0	16.1	B3/5000		
BH (60°-80°)	1497.0	5.8	B3/2500		G3/2500
BVH (80°-90°)	87.2	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°	11370.3	11370.3	11370.3	11370.3	11370.3	11370.3	11370.3	11370.3	11370.3	11370.3	11370.3
2.5°	11559.7	11745.4	11544.8	11188.4	10935.9	10705.6	10464.3	10416.0	10100.3	10044.6	9814.4
5°	10902.4	10861.6	10616.5	10148.6	9632.5	9164.6	8819.2	8485.0	8258.5	7994.9	7976.3
7.5°	10104.1	9866.4	9725.3	9016.0	8377.3	7642.1	7326.5	6817.7	6658.1	6420.4	6297.9
10°	9391.1	9216.6	8886.1	8176.8	7285.6	6799.2	6461.2	6186.5	6000.8	5755.7	5447.5
12.5°	9038.3	8967.8	8596.4	7497.3	6836.3	6316.4	6078.8	5811.4	5495.8	5102.2	4949.9
15°	9101.4	8863.8	8581.6	7367.3	6453.8	5952.5	5573.8	5239.6	4834.8	4459.7	4240.7
17.5°	9573.0	9391.1	8826.7	7449.0	6309.0	5584.9	4897.9	4404.0	4040.1	3702.2	3550.0
20°	10501.4	10237.7	9602.8	7553.0	5997.1	5072.5	4285.2	3676.2	3286.3	3108.1	3056.1
22.5°	11530.0	11374.0	10360.3	7786.9	5748.3	4597.1	3635.4	3026.4	2881.6	2833.3	2929.8
25°	12781.4	12376.6	11537.4	8169.4	5555.2	4192.4	3085.8	2747.9	2673.6	2721.9	2833.3
27.5°	13732.0	13624.3	12361.8	8529.6	5291.5	3705.9	2777.6	2554.8	2577.1	2625.3	2729.3
30°	14860.9	14315.0	13160.2	8778.4	5053.9	3371.7	2562.2	2502.8	2525.1	2606.8	2658.8
32.5°	15540.4	15336.2	13661.5	9153.4	4779.1	3082.1	2395.1	2339.4	2372.8	2495.4	2617.9
35°	16405.6	16000.9	14281.6	9250.0	4586.0	2967.0	2276.3	2235.4	2313.4	2398.8	2536.2
37.5°	17415.7	17137.2	15139.4	9183.1	4482.0	2848.1	2176.0	2157.5	2213.2	2332.0	2491.7
40°	18013.5	17928.1	15588.7	9224.0	4318.6	2744.2	2060.9	2083.2	2198.3	2291.1	2447.1
42.5°	18589.1	18032.1	16253.4	9209.1	4214.7	2603.1	2072.1	2046.1	2135.2	2242.9	2391.4
45°	18715.3	18162.1	16409.3	9105.2	4088.4	2465.7	1986.6	1997.8	2105.5	2239.2	2335.7
47.5°	18633.6	18225.2	16699.0	9075.5	3969.6	2369.1	1860.4	1994.1	2057.2	2164.9	2302.3
50°	18577.9	18555.7	16944.1	9216.6	3809.9	2216.9	1708.1	1945.8	2008.9	2116.6	2265.2
52.5°	19068.1	19019.8	17556.8	9587.9	3683.7	2053.5	1552.2	1823.3	1975.5	2079.5	2224.3
55°	19365.2	19153.5	18607.7	10044.6	3472.0	1838.1	1444.5	1671.0	1893.8	1986.6	2135.2
57.5°	17419.4	17274.6	16832.7	9376.2	3115.5	1555.9	1310.8	1515.1	1782.4	1927.2	2079.5
60°	14493.3	14266.7	13134.2	7968.9	2298.6	1210.6	1229.1	1392.5	1752.7	1808.4	1986.6
62.5°	13665.2	13104.5	11563.4	6413.0	1763.8	1039.7	1102.9	1281.1	1596.7	1689.6	1867.8
65°	10843.0	10427.1	8273.4	4630.6	1180.8	902.3	1006.3	1154.9	1377.7	1559.6	1723.0
67.5°	6788.0	6390.7	4415.2	2190.9	824.4	772.4	898.6	1054.6	1236.5	1399.9	1581.9
70°	3546.3	3111.8	2038.6	790.9	568.1	631.3	750.1	898.6	1076.9	1210.6	1351.7
72.5°	1322.0	1073.2	664.7	341.6	393.6	482.7	609.0	716.7	842.9	1006.3	1084.3
75°	204.2	174.5	170.8	207.9	267.4	349.1	434.5	542.2	653.6	757.5	809.5
77.5°	96.5	92.8	104.0	137.4	178.2	248.8	315.6	419.6	508.7	575.6	605.3
80°	63.1	59.4	66.8	92.8	133.7	185.7	252.5	323.1	404.8	460.5	453.0
82.5°	37.1	40.8	40.8	63.1	92.8	133.7	182.0	245.1	300.8	349.1	319.3
85°	22.3	18.6	18.6	37.1	63.1	107.7	152.2	104.0	107.7	107.7	122.5
87.5°	7.4	7.4	7.4	3.7	7.4	7.4	11.1	18.6	22.3	26.0	33.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11370.3	11370.3	11370.3	11370.3	11370.3	11370.3	11370.3	11370.3	11370.3	11370.3	11370.3
2.5°	9807.0	9922.1	9881.3	9736.4	9847.8	9866.4	9792.1	10048.4	10096.6	10018.6	10040.9
5°	7950.3	7980.0	8046.9	8188.0	8288.2	8407.1	8407.1	8414.5	8314.2	8566.7	8492.5
7.5°	6193.9	6212.5	6290.4	6591.2	6676.6	6903.1	6999.7	6932.8	6732.3	6646.9	6717.5
10°	5347.2	5239.6	5213.6	5250.7	5443.8	5540.3	5622.0	5599.7	5566.3	5499.5	5425.2
12.5°	4782.8	4704.8	4641.7	4552.6	4563.7	4656.6	4719.7	4667.7	4682.5	4697.4	4719.7
15°	4170.1	4114.4	4081.0	3947.3	3932.5	3995.6	4017.9	4047.6	4103.3	4107.0	4081.0
17.5°	3520.3	3472.0	3546.3	3620.5	3568.5	3572.3	3613.1	3639.1	3624.2	3557.4	3524.0
20°	3074.7	3126.7	3200.9	3271.5	3327.2	3360.6	3375.4	3334.6	3286.3	3148.9	3145.2
22.5°	2944.7	3011.5	3074.7	3182.4	3234.3	3319.7	3241.8	3148.9	3082.1	3015.2	2937.3
25°	2848.1	2903.8	3030.1	3071.0	3171.2	3241.8	3186.1	3093.2	2978.1	2881.6	2822.2
27.5°	2777.6	2840.7	2922.4	3033.8	3111.8	3152.6	3096.9	3059.8	2941.0	2825.9	2740.5
30°	2733.0	2799.9	2948.4	3041.2	3108.1	3141.5	3045.0	3000.4	2915.0	2818.4	2744.2
32.5°	2703.3	2762.7	2889.0	3007.8	3052.4	3052.4	3067.2	3015.2	2896.4	2733.0	2669.9
35°	2606.8	2688.5	2792.4	2929.8	3011.5	3059.8	2985.5	2926.1	2848.1	2681.0	2565.9
37.5°	2551.1	2606.8	2740.5	2870.4	2941.0	2993.0	2963.3	2859.3	2755.3	2617.9	2525.1
40°	2491.7	2580.8	2699.6	2822.2	2900.1	2952.1	2929.8	2807.3	2681.0	2551.1	2488.0
42.5°	2450.8	2510.2	2632.8	2770.2	2863.0	2963.3	2896.4	2744.2	2655.1	2476.8	2406.3
45°	2417.4	2513.9	2643.9	2699.6	2796.2	2900.1	2781.3	2688.5	2584.5	2454.5	2395.1
47.5°	2376.6	2465.7	2551.1	2699.6	2744.2	2792.4	2770.2	2621.6	2532.5	2391.4	2350.6
50°	2361.7	2395.1	2551.1	2632.8	2695.9	2744.2	2684.8	2573.4	2488.0	2343.1	2254.0
52.5°	2302.3	2365.4	2465.7	2573.4	2651.3	2710.8	2614.2	2543.7	2428.5	2276.3	2220.6
55°	2228.0	2265.2	2443.4	2554.8	2595.6	2636.5	2599.4	2484.2	2365.4	2209.5	2153.7
57.5°	2131.5	2216.9	2361.7	2517.7	2569.6	2591.9	2532.5	2439.7	2291.1	2153.7	2064.6
60°	2031.2	2120.3	2280.0	2406.3	2458.2	2539.9	2450.8	2395.1	2224.3	2072.1	1975.5
62.5°	1930.9	2031.2	2150.0	2309.7	2354.3	2387.7	2365.4	2287.4	2150.0	1979.2	1860.4
65°	1812.1	1886.4	2034.9	2116.6	2146.3	2224.3	2146.3	2116.6	1994.1	1830.7	1730.4
67.5°	1633.9	1697.0	1827.0	1905.0	1927.2	1960.7	1956.9	1923.5	1786.1	1674.7	1585.6
70°	1429.6	1485.3	1567.0	1659.9	1671.0	1711.9	1674.7	1667.3	1578.2	1425.9	1377.7
72.5°	1147.4	1199.4	1307.1	1348.0	1351.7	1366.5	1348.0	1322.0	1299.7	1140.0	1091.7
75°	880.1	909.8	961.8	998.9	998.9	1017.5	1006.3	980.3	920.9	820.7	772.4
77.5°	612.7	642.4	709.3	731.5	727.8	735.2	701.8	675.8	586.7	534.7	493.9
80°	445.6	464.2	497.6	512.4	516.2	527.3	486.5	464.2	412.2	352.8	334.2
82.5°	323.1	334.2	337.9	356.5	356.5	337.9	326.8	304.5	267.4	230.2	215.4
85°	133.7	137.4	141.1	163.4	167.1	200.5	185.7	174.5	152.2	130.0	118.8
87.5°	33.4	37.1	48.3	40.8	48.3	48.3	52.0	59.4	59.4	48.3	48.3
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°	11370.3	11370.3	11370.3	11370.3	11370.3	11370.3	11370.3	11370.3	11370.3	11370.3	11370.3
2.5°	10126.3	10156.0	10534.8	10583.1	10768.7	10958.1	11340.6	11615.4	11838.2	11983.0	12023.9
5°	8570.4	8759.8	8934.3	9216.6	9472.8	9836.7	10256.3	10776.2	11429.7	11763.9	11897.6
7.5°	6710.0	6932.8	7185.4	7460.1	7835.2	8488.7	9049.5	9651.0	10486.5	10831.9	11355.5
10°	5477.2	5726.0	6060.2	6271.9	6724.9	7348.7	8002.3	8696.7	9495.1	9992.7	10597.9
12.5°	4842.2	5046.5	5354.7	5800.3	6138.2	6542.9	7029.4	7905.7	9049.5	9521.1	9937.0
15°	4140.4	4366.9	4723.4	5217.3	5622.0	6104.8	6650.6	7605.0	8822.9	9550.8	9903.5
17.5°	3561.1	3724.5	4099.6	4526.6	4990.8	5518.1	6301.6	7590.1	9060.6	9992.7	10568.2
20°	3160.1	3182.4	3386.6	3750.5	4381.8	5068.7	6086.2	7515.8	9821.8	10753.9	11481.7
22.5°	2907.6	2885.3	2889.0	3197.2	3639.1	4626.8	5748.3	7768.4	10687.1	11964.5	12454.6
25°	2781.3	2721.9	2684.8	2751.6	3152.6	4103.3	5492.1	8102.6	11619.1	12963.3	13564.9
27.5°	2714.5	2610.5	2536.2	2547.4	2840.7	3839.6	5332.4	8247.4	12543.7	14355.9	14567.5
30°	2688.5	2558.5	2450.8	2413.7	2606.8	3472.0	4990.8	8496.2	13371.8	15120.8	15302.8
32.5°	2595.6	2436.0	2332.0	2298.6	2376.6	3148.9	4745.7	8674.4	14103.3	15952.6	15889.5
35°	2488.0	2354.3	2224.3	2161.2	2216.9	2941.0	4548.9	8589.0	14964.8	16598.7	16565.3
37.5°	2476.8	2302.3	2194.6	2090.6	2086.9	2684.8	4281.5	8670.7	15514.4	17757.3	17300.6
40°	2380.3	2268.9	2127.8	2042.3	1994.1	2554.8	4021.6	8477.6	16320.2	18225.2	17775.9
42.5°	2384.0	2216.9	2094.3	1994.1	1945.8	2365.4	3843.3	8425.6	16602.4	18986.4	17998.7
45°	2324.6	2161.2	2057.2	1938.4	1912.4	2220.6	3672.5	8184.2	17100.0	19023.6	17720.2
47.5°	2265.2	2120.3	2008.9	1867.8	1808.4	2168.6	3538.8	7983.7	16840.1	18674.5	17334.0
50°	2224.3	2057.2	1953.2	1853.0	1685.9	2079.5	3364.3	7935.5	16476.2	18202.9	16617.3
52.5°	2153.7	2005.2	1897.5	1819.5	1552.2	1997.8	3297.5	8217.7	16921.8	17850.1	16409.3
55°	2086.9	1934.7	1797.3	1645.0	1440.8	1782.4	3111.8	8481.3	17571.6	18663.4	17352.5
57.5°	2016.4	1871.5	1723.0	1541.0	1333.1	1559.6	2918.7	8529.6	16353.6	17248.6	16472.5
60°	1923.5	1737.9	1626.5	1388.8	1218.0	1292.2	2313.4	7519.6	12684.8	14404.1	14430.1
62.5°	1819.5	1619.0	1522.5	1244.0	1099.2	1114.0	1886.4	6320.1	10289.7	11923.6	12632.9
65°	1682.2	1489.1	1373.9	1151.1	1013.7	965.5	1381.4	4630.6	7816.6	9673.3	10479.1
67.5°	1503.9	1322.0	1177.1	1002.6	906.1	828.1	943.2	2606.8	4615.7	6494.7	6739.8
70°	1314.5	1158.6	1006.3	861.5	753.8	698.1	690.7	1154.9	2205.7	3494.3	3977.0
72.5°	1036.0	924.6	802.1	694.4	623.8	542.2	493.9	479.0	746.4	1422.2	1964.4
75°	742.7	649.8	579.3	508.7	456.7	412.2	375.0	341.6	311.9	356.5	490.2
77.5°	467.9	434.5	378.8	360.2	330.5	319.3	304.5	285.9	263.6	248.8	248.8
80°	315.6	293.4	274.8	271.1	259.9	256.2	259.9	241.4	219.1	200.5	207.9
82.5°	211.7	207.9	204.2	200.5	204.2	207.9	215.4	211.7	193.1	182.0	185.7
85°	126.3	133.7	141.1	148.5	163.4	144.8	118.8	100.3	89.1	81.7	78.0
87.5°	48.3	66.8	59.4	55.7	59.4	55.7	52.0	48.3	40.8	37.1	37.1
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11370.3	11370.3	11370.3	11370.3	11370.3	11370.3	11370.3	11370.3	11370.3	11370.3
2.5°	12294.9	12369.2	12432.3	12417.5	12287.5	12113.0	12042.4	11682.2	11608.0	11559.7
5°	12462.0	12892.8	12985.6	12929.9	12592.0	12165.0	11749.1	11221.8	10913.6	10902.4
7.5°	12153.8	12684.8	12851.9	12978.2	12528.9	11786.2	11073.2	10282.3	10089.2	10104.1
10°	11370.3	12217.0	12629.1	12759.1	12243.0	11600.5	10612.8	9810.7	9398.5	9391.1
12.5°	10935.9	11600.5	11715.7	11897.6	11745.4	11095.5	10345.4	9446.8	9045.7	9038.3
15°	10549.7	10987.8	11021.3	11277.5	11359.2	10921.0	10416.0	9457.9	9134.9	9101.4
17.5°	10887.6	10583.1	10456.8	10490.2	10731.6	10891.3	10824.4	10089.2	9758.7	9573.0
20°	11114.1	10434.5	10052.1	10089.2	10375.1	10958.1	11433.4	11002.7	10479.1	10501.4
22.5°	11719.4	10456.8	9859.0	9818.1	10271.2	11307.2	12120.4	12157.5	11652.5	11530.0
25°	12625.4	10713.0	9799.6	9788.4	10222.9	11682.2	12922.5	13524.1	13007.9	12781.4
27.5°	13353.2	11114.1	9985.2	10022.4	10375.1	11986.7	13605.8	14404.1	14010.5	13732.0
30°	13991.9	11530.0	10245.2	10074.4	10783.6	12146.4	13899.1	15406.7	15091.1	14860.9
32.5°	14255.6	12120.4	10657.3	10375.1	11121.5	12339.5	14508.1	16379.6	16108.6	15540.4
35°	14701.2	12450.9	10880.1	10857.9	11711.9	12803.7	14794.0	17022.0	16910.6	16405.6
37.5°	15057.7	12785.1	11671.1	11426.0	12521.5	13583.5	15254.5	17909.5	17653.3	17415.7
40°	15332.5	13383.0	12410.1	12733.1	13516.6	14292.7	15677.8	17965.2	18704.2	18013.5
42.5°	15080.0	13917.7	13624.3	14396.7	15139.4	15102.2	15726.1	18396.0	18949.3	18589.1
45°	15016.8	14823.7	15544.1	16246.0	16416.8	15774.4	15380.7	17920.7	18875.0	18715.3
47.5°	14864.6	15714.9	16970.1	18113.8	17853.8	16223.7	14968.6	17835.3	18919.6	18633.6
50°	14812.6	15908.0	18024.7	19138.7	18982.7	16613.6	14775.5	17285.7	18603.9	18577.9
52.5°	14808.9	16305.4	18462.8	19695.7	19792.2	17230.0	15039.1	17564.2	18849.0	19068.1
55°	14976.0	16179.1	18407.1	19387.5	19350.3	16955.2	15068.8	17749.9	19149.8	19365.2
57.5°	14125.6	14493.3	15191.4	15967.5	15766.9	14043.9	13457.2	16409.3	17575.3	17419.4
60°	12198.4	11047.3	10260.0	10222.9	9833.0	9294.5	11013.8	14645.5	14645.5	14493.3
62.5°	10683.3	7252.2	6231.0	5941.4	6219.9	6840.0	10623.9	14244.5	13839.7	13665.2
65°	9342.8	5536.6	4504.3	4422.6	4905.4	5841.1	9606.5	12135.3	11422.3	10843.0
67.5°	6011.9	4055.0	3349.5	3204.6	3787.6	4288.9	6394.4	7463.9	7014.5	6788.0
70°	3876.7	2640.2	1864.1	1749.0	1975.5	2643.9	4084.7	4352.1	3698.5	3546.3
72.5°	1834.4	1140.0	653.6	538.4	605.3	1010.0	1615.3	1737.9	1444.5	1322.0
75°	583.0	419.6	267.4	230.2	219.1	259.9	371.3	285.9	207.9	204.2
77.5°	259.9	248.8	211.7	178.2	156.0	130.0	107.7	89.1	92.8	96.5
80°	215.4	196.8	174.5	156.0	130.0	100.3	78.0	59.4	59.4	63.1
82.5°	189.4	170.8	152.2	130.0	111.4	81.7	59.4	40.8	37.1	37.1
85°	81.7	96.5	104.0	111.4	89.1	66.8	40.8	26.0	22.3	22.3
87.5°	33.4	29.7	26.0	22.3	18.6	18.6	14.9	11.1	7.4	7.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)