

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: P531774

Luminaire Tested: **GALN-SA7A-750-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531774
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-SA7A-750-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 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: 23722 lumens
Efficiency: N/A
Efficacy: 110.3 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

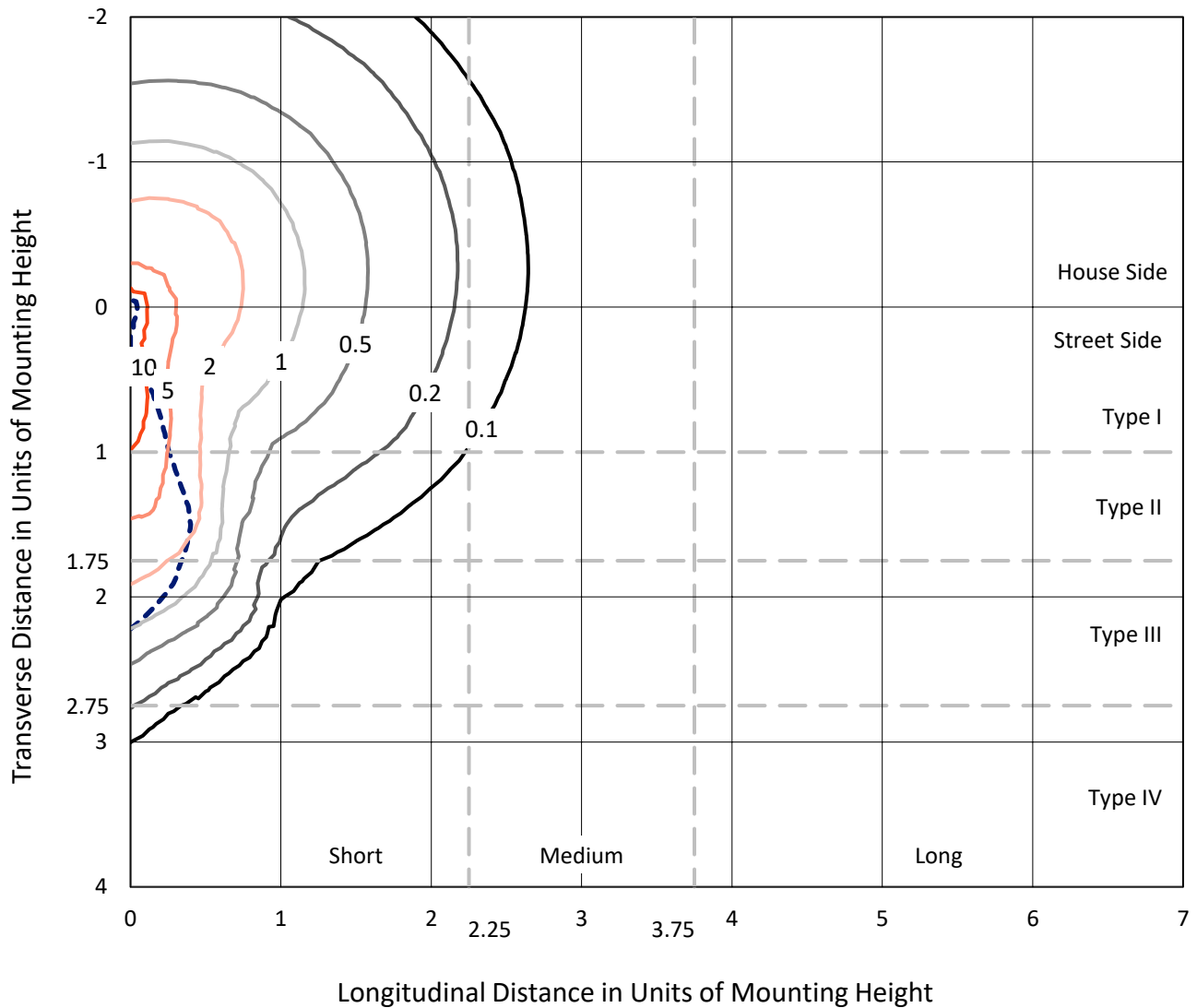
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

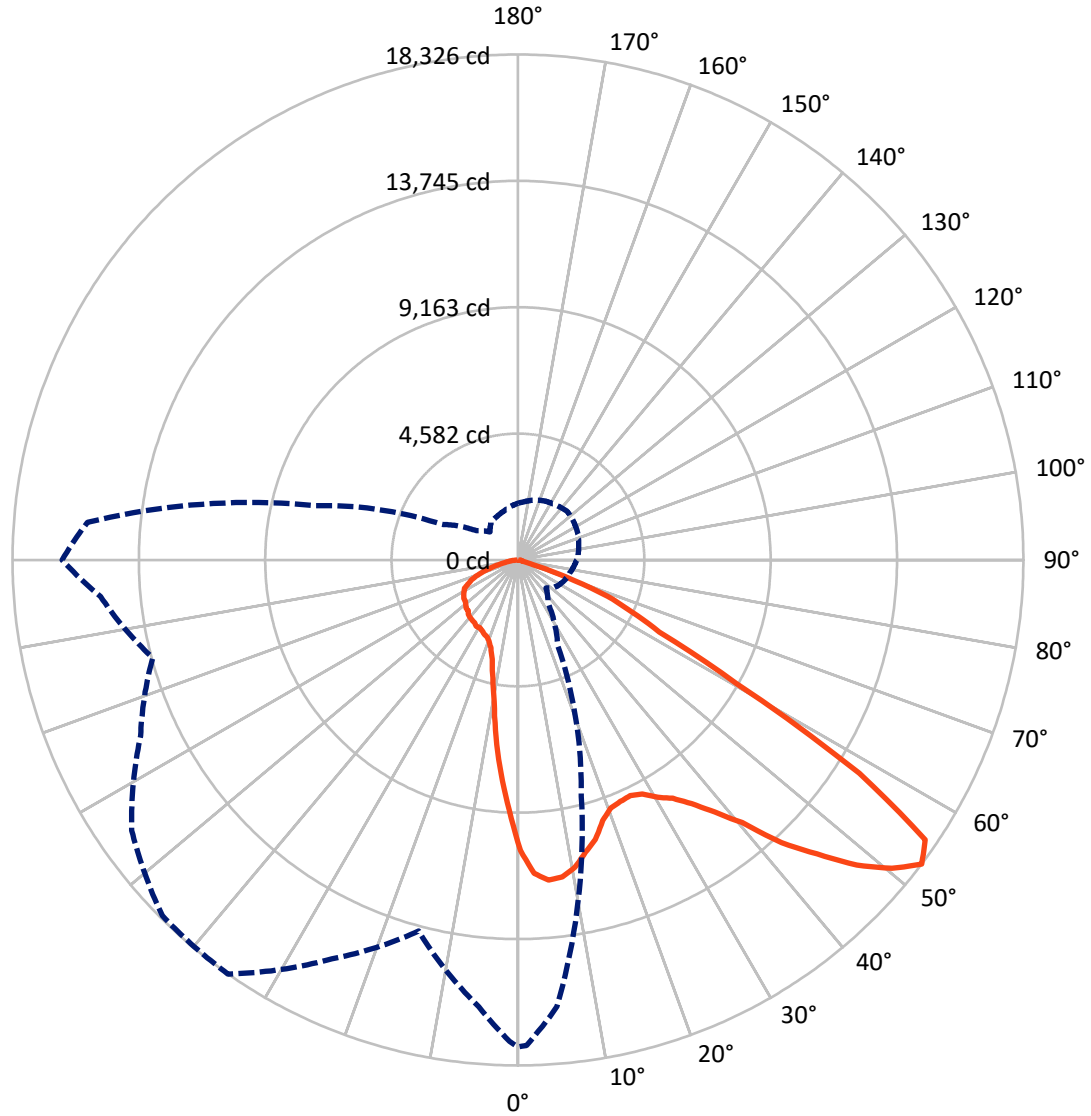
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7151.2	0.0	7151.2
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	16570.8	0.0	16570.8
	% Fixture	69.9	0.0	69.9
Total	Lumens	23722.0	0.0	23722.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	803.2	3.4
10°-20°	1741.2	7.3
20°-30°	2630.8	11.1
30°-40°	3801.6	16.0
40°-50°	5059.3	21.3
50°-60°	5659.0	23.9
60°-70°	3189.4	13.4
70°-80°	710.9	3.0
80°-90°	126.6	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°	23722.0	100.0
0°-180°	23722.0	100.0

Coefficient of Utilization



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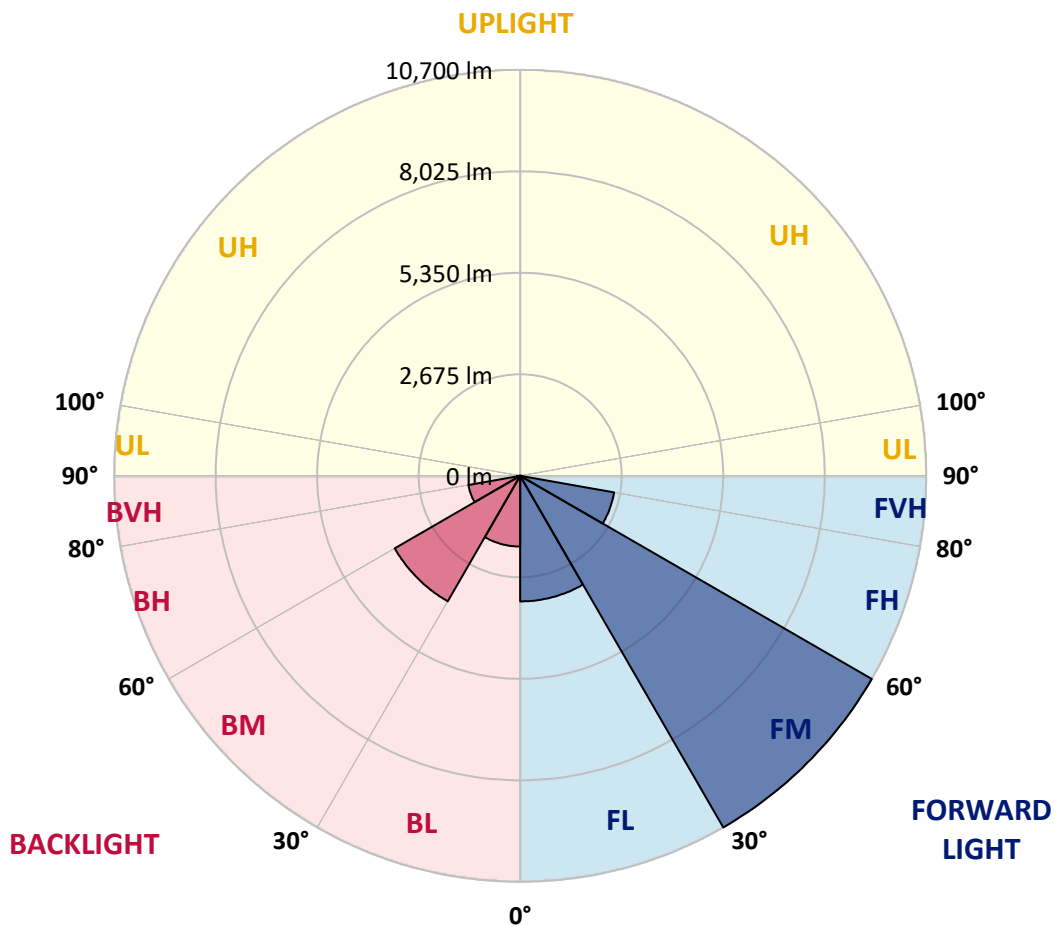
CATALOG NUMBER: GALN-SA7A-750-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3310.3	14.0			
FM (30°-60°)	10700.4	45.1			
FH (60°-80°)	2514.2	10.6			G2/5000
FVH (80°-90°)	45.8	0.2			G1/100
BL (0°-30°)	1864.9	7.9	B3/2500		
BM (30°-60°)	3819.4	16.1	B3/5000		
BH (60°-80°)	1386.1	5.8	B3/2500		G3/2500
BVH (80°-90°)	80.8	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°	10528.0	10528.0	10528.0	10528.0	10528.0	10528.0	10528.0	10528.0	10528.0	10528.0	10528.0
2.5°	10703.3	10875.2	10689.6	10359.5	10125.7	9912.5	9689.0	9644.3	9352.1	9300.5	9087.3
5°	10094.7	10056.9	9830.0	9396.8	8918.9	8485.6	8165.9	7856.4	7646.7	7402.6	7385.4
7.5°	9355.5	9135.5	9004.8	8348.1	7756.7	7076.0	6783.7	6312.7	6164.8	5944.8	5831.3
10°	8695.4	8533.8	8227.8	7571.1	6745.9	6295.5	5982.6	5728.2	5556.2	5329.3	5043.9
12.5°	8368.7	8303.4	7959.6	6941.9	6329.8	5848.5	5628.4	5380.9	5088.6	4724.2	4583.2
15°	8427.2	8207.1	7945.8	6821.5	5975.7	5511.5	5160.8	4851.4	4476.6	4129.4	3926.5
17.5°	8863.8	8695.4	8172.8	6897.2	5841.6	5171.2	4535.1	4077.8	3740.8	3428.0	3287.0
20°	9723.4	9479.3	8891.4	6993.4	5552.8	4696.7	3967.8	3403.9	3042.9	2877.8	2829.7
22.5°	10675.8	10531.4	9592.8	7210.0	5322.4	4256.6	3366.1	2802.2	2668.1	2623.4	2712.8
25°	11834.5	11459.7	10682.7	7564.2	5143.6	3881.8	2857.2	2544.3	2475.6	2520.2	2623.4
27.5°	12714.7	12615.0	11446.0	7897.7	4899.5	3431.4	2571.8	2365.5	2386.2	2430.9	2527.1
30°	13759.9	13254.5	12185.2	8128.1	4679.5	3121.9	2372.4	2317.4	2338.0	2413.7	2461.8
32.5°	14389.1	14200.0	12649.4	8475.3	4425.0	2853.8	2217.7	2166.1	2197.1	2310.5	2424.0
35°	15190.3	14815.5	13223.6	8564.7	4246.3	2747.2	2107.7	2069.8	2142.0	2221.1	2348.3
37.5°	16125.5	15867.6	14017.8	8502.8	4150.0	2637.1	2014.8	1997.6	2049.2	2159.2	2307.1
40°	16679.0	16599.9	14433.8	8540.7	3998.7	2540.9	1908.2	1928.9	2035.5	2121.4	2265.8
42.5°	17212.0	16696.2	15049.3	8526.9	3902.4	2410.2	1918.6	1894.5	1977.0	2076.7	2214.2
45°	17328.9	16816.6	15193.7	8430.6	3785.5	2283.0	1839.5	1849.8	1949.5	2073.3	2162.7
47.5°	17253.2	16875.0	15461.9	8403.1	3675.5	2193.6	1722.6	1846.3	1904.8	2004.5	2131.7
50°	17201.6	17181.0	15688.8	8533.8	3527.7	2052.6	1581.6	1801.7	1860.1	1959.8	2097.3
52.5°	17655.5	17610.8	16256.1	8877.6	3410.8	1901.4	1437.2	1688.2	1829.2	1925.4	2059.5
55°	17930.6	17734.6	17229.1	9300.5	3214.8	1701.9	1337.5	1547.2	1753.5	1839.5	1977.0
57.5°	16128.9	15994.8	15585.7	8681.6	2884.7	1440.6	1213.7	1402.8	1650.4	1784.5	1925.4
60°	13419.6	13209.8	12161.1	7378.5	2128.3	1120.9	1138.1	1289.3	1622.9	1674.4	1839.5
62.5°	12652.8	12133.6	10706.8	5937.9	1633.2	962.7	1021.2	1186.2	1478.5	1564.4	1729.4
65°	10039.7	9654.6	7660.5	4287.5	1093.4	835.5	931.8	1069.3	1275.6	1444.1	1595.4
67.5°	6285.1	5917.3	4088.1	2028.6	763.3	715.2	832.1	976.5	1144.9	1296.2	1464.7
70°	3283.5	2881.3	1887.6	732.4	526.1	584.5	694.5	832.1	997.1	1120.9	1251.5
72.5°	1224.0	993.7	615.4	316.3	364.5	447.0	563.9	663.6	780.5	931.8	1004.0
75°	189.1	161.6	158.2	192.5	247.6	323.2	402.3	502.0	605.1	701.4	749.5
77.5°	89.4	86.0	96.3	127.2	165.0	230.4	292.3	388.5	471.0	532.9	560.4
80°	58.5	55.0	61.9	86.0	123.8	171.9	233.8	299.1	374.8	426.3	419.5
82.5°	34.4	37.8	37.8	58.5	86.0	123.8	168.5	226.9	278.5	323.2	295.7
85°	20.6	17.2	17.2	34.4	58.5	99.7	141.0	96.3	99.7	99.7	113.5
87.5°	6.9	6.9	6.9	3.4	6.9	6.9	10.3	17.2	20.6	24.1	30.9
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°	10528.0	10528.0	10528.0	10528.0	10528.0	10528.0	10528.0	10528.0	10528.0	10528.0	10528.0
2.5°	9080.5	9187.0	9149.2	9015.1	9118.3	9135.5	9066.7	9303.9	9348.6	9276.4	9297.1
5°	7361.3	7388.8	7450.7	7581.4	7674.2	7784.2	7784.2	7791.1	7698.3	7932.1	7863.3
7.5°	5735.0	5752.2	5824.4	6102.9	6182.0	6391.7	6481.1	6419.2	6233.6	6154.5	6219.8
10°	4951.1	4851.4	4827.3	4861.7	5040.5	5129.9	5205.5	5184.9	5154.0	5092.1	5023.3
12.5°	4428.5	4356.3	4297.8	4215.3	4225.6	4311.6	4370.0	4321.9	4335.7	4349.4	4370.0
15°	3861.2	3809.6	3778.7	3654.9	3641.1	3699.6	3720.2	3747.7	3799.3	3802.7	3778.7
17.5°	3259.5	3214.8	3283.5	3352.3	3304.2	3307.6	3345.4	3369.5	3355.7	3293.9	3262.9
20°	2846.9	2895.0	2963.8	3029.1	3080.7	3111.6	3125.4	3087.6	3042.9	2915.6	2912.2
22.5°	2726.5	2788.4	2846.9	2946.6	2994.7	3073.8	3001.6	2915.6	2853.8	2791.9	2719.7
25°	2637.1	2688.7	2805.6	2843.4	2936.3	3001.6	2950.0	2864.1	2757.5	2668.1	2613.1
27.5°	2571.8	2630.3	2705.9	2809.1	2881.3	2919.1	2867.5	2833.1	2723.1	2616.5	2537.4
30°	2530.6	2592.5	2730.0	2815.9	2877.8	2908.8	2819.4	2778.1	2699.0	2609.6	2540.9
32.5°	2503.1	2558.1	2675.0	2785.0	2826.3	2826.3	2840.0	2791.9	2681.8	2530.6	2472.1
35°	2413.7	2489.3	2585.6	2712.8	2788.4	2833.1	2764.4	2709.4	2637.1	2482.4	2375.8
37.5°	2362.1	2413.7	2537.4	2657.8	2723.1	2771.2	2743.7	2647.5	2551.2	2424.0	2338.0
40°	2307.1	2389.6	2499.6	2613.1	2685.3	2733.4	2712.8	2599.3	2482.4	2362.1	2303.6
42.5°	2269.3	2324.3	2437.7	2564.9	2650.9	2743.7	2681.8	2540.9	2458.4	2293.3	2228.0
45°	2238.3	2327.7	2448.0	2499.6	2589.0	2685.3	2575.3	2489.3	2393.0	2272.7	2217.7
47.5°	2200.5	2283.0	2362.1	2499.6	2540.9	2585.6	2564.9	2427.4	2344.9	2214.2	2176.4
50°	2186.7	2217.7	2362.1	2437.7	2496.2	2540.9	2485.9	2382.7	2303.6	2169.5	2087.0
52.5°	2131.7	2190.2	2283.0	2382.7	2454.9	2509.9	2420.5	2355.2	2248.6	2107.7	2056.1
55°	2063.0	2097.3	2262.4	2365.5	2403.3	2441.2	2406.8	2300.2	2190.2	2045.8	1994.2
57.5°	1973.6	2052.6	2186.7	2331.1	2379.3	2399.9	2344.9	2258.9	2121.4	1994.2	1911.7
60°	1880.7	1963.2	2111.1	2228.0	2276.1	2351.8	2269.3	2217.7	2059.5	1918.6	1829.2
62.5°	1787.9	1880.7	1990.8	2138.6	2179.9	2210.8	2190.2	2118.0	1990.8	1832.6	1722.6
65°	1677.9	1746.6	1884.2	1959.8	1987.3	2059.5	1987.3	1959.8	1846.3	1695.1	1602.2
67.5°	1512.8	1571.3	1691.6	1763.8	1784.5	1815.4	1812.0	1781.0	1653.8	1550.7	1468.1
70°	1323.7	1375.3	1450.9	1536.9	1547.2	1585.0	1550.7	1543.8	1461.3	1320.3	1275.6
72.5°	1062.4	1110.6	1210.3	1248.1	1251.5	1265.3	1248.1	1224.0	1203.4	1055.5	1010.9
75°	814.9	842.4	890.5	924.9	924.9	942.1	931.8	907.7	852.7	759.9	715.2
77.5°	567.3	594.8	656.7	677.3	673.9	680.8	649.8	625.8	543.2	495.1	457.3
80°	412.6	429.8	460.7	474.5	477.9	488.2	450.4	429.8	381.6	326.6	309.4
82.5°	299.1	309.4	312.9	330.1	330.1	312.9	302.6	281.9	247.6	213.2	199.4
85°	123.8	127.2	130.7	151.3	154.7	185.7	171.9	161.6	141.0	120.3	110.0
87.5°	30.9	34.4	44.7	37.8	44.7	44.7	48.1	55.0	55.0	44.7	44.7
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°	10528.0	10528.0	10528.0	10528.0	10528.0	10528.0	10528.0	10528.0	10528.0	10528.0	10528.0
2.5°	9376.2	9403.7	9754.4	9799.1	9971.0	10146.3	10500.5	10754.9	10961.2	11095.3	11133.1
5°	7935.5	8110.9	8272.5	8533.8	8771.0	9108.0	9496.5	9977.8	10583.0	10892.4	11016.2
7.5°	6212.9	6419.2	6653.0	6907.5	7254.7	7859.9	8379.1	8936.1	9709.7	10029.4	10514.2
10°	5071.4	5301.8	5611.2	5807.2	6226.7	6804.3	7409.5	8052.4	8791.6	9252.4	9812.8
12.5°	4483.5	4672.6	4958.0	5370.6	5683.5	6058.2	6508.6	7320.1	8379.1	8815.7	9200.8
15°	3833.7	4043.4	4373.5	4830.8	5205.5	5652.5	6157.9	7041.6	8169.3	8843.2	9169.9
17.5°	3297.3	3448.6	3795.8	4191.2	4621.0	5109.3	5834.7	7027.8	8389.4	9252.4	9785.3
20°	2926.0	2946.6	3135.7	3472.6	4057.2	4693.2	5635.3	6959.0	9094.2	9957.2	10631.1
22.5°	2692.2	2671.5	2675.0	2960.3	3369.5	4284.1	5322.4	7192.9	9895.3	11078.1	11531.9
25°	2575.3	2520.2	2485.9	2547.8	2919.1	3799.3	5085.2	7502.3	10758.3	12003.0	12560.0
27.5°	2513.4	2417.1	2348.3	2358.7	2630.3	3555.2	4937.3	7636.4	11614.5	13292.3	13488.3
30°	2489.3	2369.0	2269.3	2234.9	2413.7	3214.8	4621.0	7866.8	12381.2	14000.6	14169.1
32.5°	2403.3	2255.5	2159.2	2128.3	2200.5	2915.6	4394.1	8031.8	13058.5	14770.8	14712.3
35°	2303.6	2179.9	2059.5	2001.1	2052.6	2723.1	4211.9	7952.7	13856.2	15369.0	15338.1
37.5°	2293.3	2131.7	2032.0	1935.7	1932.3	2485.9	3964.3	8028.4	14365.1	16441.8	16018.9
40°	2203.9	2100.8	1970.1	1891.0	1846.3	2365.5	3723.6	7849.6	15111.2	16875.0	16459.0
42.5°	2207.4	2052.6	1939.2	1846.3	1801.7	2190.2	3558.6	7801.4	15372.5	17579.9	16665.3
45°	2152.4	2001.1	1904.8	1794.8	1770.7	2056.1	3400.4	7577.9	15833.2	17614.2	16407.4
47.5°	2097.3	1963.2	1860.1	1729.4	1674.4	2007.9	3276.7	7392.3	15592.5	17291.0	16049.8
50°	2059.5	1904.8	1808.5	1715.7	1561.0	1925.4	3115.1	7347.6	15255.6	16854.4	15386.2
52.5°	1994.2	1856.7	1757.0	1684.8	1437.2	1849.8	3053.2	7608.9	15668.2	16527.7	15193.7
55°	1932.3	1791.3	1664.1	1523.2	1334.0	1650.4	2881.3	7853.0	16269.9	17280.7	16067.0
57.5°	1867.0	1732.9	1595.4	1426.9	1234.3	1444.1	2702.5	7897.7	15142.1	15970.7	15252.1
60°	1781.0	1609.1	1506.0	1285.9	1127.8	1196.5	2142.0	6962.5	11745.1	13337.0	13361.1
62.5°	1684.8	1499.1	1409.7	1151.8	1017.7	1031.5	1746.6	5851.9	9527.4	11040.3	11697.0
65°	1557.5	1378.7	1272.2	1065.9	938.6	893.9	1279.0	4287.5	7237.5	8956.7	9702.8
67.5°	1392.5	1224.0	1089.9	928.3	838.9	766.7	873.3	2413.7	4273.8	6013.5	6240.5
70°	1217.1	1072.7	931.8	797.7	698.0	646.4	639.5	1069.3	2042.3	3235.4	3682.4
72.5°	959.3	856.1	742.7	643.0	577.6	502.0	457.3	443.5	691.1	1316.9	1818.8
75°	687.7	601.7	536.4	471.0	422.9	381.6	347.3	316.3	288.8	330.1	453.9
77.5°	433.2	402.3	350.7	333.5	306.0	295.7	281.9	264.7	244.1	230.4	230.4
80°	292.3	271.6	254.4	251.0	240.7	237.2	240.7	223.5	202.9	185.7	192.5
82.5°	196.0	192.5	189.1	185.7	189.1	192.5	199.4	196.0	178.8	168.5	171.9
85°	116.9	123.8	130.7	137.5	151.3	134.1	110.0	92.8	82.5	75.6	72.2
87.5°	44.7	61.9	55.0	51.6	55.0	51.6	48.1	44.7	37.8	34.4	34.4
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°	10528.0	10528.0	10528.0	10528.0	10528.0	10528.0	10528.0	10528.0	10528.0	10528.0
2.5°	11384.1	11452.9	11511.3	11497.6	11377.2	11215.6	11150.3	10816.8	10748.0	10703.3
5°	11538.8	11937.7	12023.6	11972.0	11659.2	11263.8	10878.7	10390.4	10105.1	10094.7
7.5°	11253.4	11745.1	11899.8	12016.7	11600.7	10913.1	10252.9	9520.6	9341.8	9355.5
10°	10528.0	11311.9	11693.5	11813.9	11336.0	10741.1	9826.6	9083.9	8702.3	8695.4
12.5°	10125.7	10741.1	10847.7	11016.2	10875.2	10273.5	9579.0	8746.9	8375.6	8368.7
15°	9768.1	10173.8	10204.8	10442.0	10517.7	10111.9	9644.3	8757.3	8458.1	8427.2
17.5°	10081.0	9799.1	9682.2	9713.1	9936.6	10084.4	10022.5	9341.8	9035.8	8863.8
20°	10290.7	9661.5	9307.4	9341.8	9606.5	10146.3	10586.4	10187.6	9702.8	9723.4
22.5°	10851.2	9682.2	9128.6	9090.8	9510.2	10469.5	11222.5	11256.9	10789.3	10675.8
25°	11690.1	9919.4	9073.6	9063.3	9465.5	10816.8	11965.2	12522.2	12044.2	11834.5
27.5°	12364.0	10290.7	9245.5	9279.9	9606.5	11098.7	12597.8	13337.0	12972.6	12714.7
30°	12955.4	10675.8	9486.2	9328.0	9984.7	11246.6	12869.4	14265.4	13973.1	13759.9
32.5°	13199.5	11222.5	9867.8	9606.5	10297.6	11425.4	13433.3	15166.2	14915.2	14389.1
35°	13612.1	11528.5	10074.1	10053.5	10844.3	11855.1	13698.1	15761.0	15657.9	15190.3
37.5°	13942.2	11837.9	10806.5	10579.5	11593.8	12577.2	14124.4	16582.8	16345.5	16125.5
40°	14196.6	12391.5	11490.7	11789.8	12515.3	13233.9	14516.4	16634.3	17318.5	16679.0
42.5°	13962.8	12886.6	12615.0	13330.2	14017.8	13983.4	14561.1	17033.2	17545.5	17212.0
45°	13904.3	13725.6	14392.6	15042.4	15200.6	14605.8	14241.3	16593.1	17476.7	17328.9
47.5°	13763.4	14550.7	15712.9	16771.9	16531.2	15021.8	13859.6	16514.0	17518.0	17253.2
50°	13715.2	14729.5	16689.3	17720.8	17576.4	15382.8	13680.9	16005.1	17225.7	17201.6
52.5°	13711.8	15097.4	17095.1	18236.6	18326.0	15953.6	13925.0	16263.0	17452.6	17655.5
55°	13866.5	14980.5	17043.5	17951.2	17916.8	15699.1	13952.5	16434.9	17731.1	17930.6
57.5°	13079.2	13419.6	14065.9	14784.5	14598.9	13003.5	12460.3	15193.7	16273.3	16128.9
60°	11294.7	10228.8	9499.9	9465.5	9104.5	8606.0	10197.9	13560.5	13560.5	13419.6
62.5°	9891.9	6714.9	5769.4	5501.2	5759.1	6333.3	9836.9	13189.2	12814.4	12652.8
65°	8650.7	5126.5	4170.6	4095.0	4541.9	5408.4	8894.8	11236.3	10576.1	10039.7
67.5°	5566.6	3754.6	3101.3	2967.2	3507.0	3971.2	5920.7	6910.9	6494.9	6285.1
70°	3589.5	2444.6	1726.0	1619.4	1829.2	2448.0	3782.1	4029.6	3424.5	3283.5
72.5°	1698.5	1055.5	605.1	498.5	560.4	935.2	1495.6	1609.1	1337.5	1224.0
75°	539.8	388.5	247.6	213.2	202.9	240.7	343.8	264.7	192.5	189.1
77.5°	240.7	230.4	196.0	165.0	144.4	120.3	99.7	82.5	86.0	89.4
80°	199.4	182.2	161.6	144.4	120.3	92.8	72.2	55.0	55.0	58.5
82.5°	175.4	158.2	141.0	120.3	103.1	75.6	55.0	37.8	34.4	34.4
85°	75.6	89.4	96.3	103.1	82.5	61.9	37.8	24.1	20.6	20.6
87.5°	30.9	27.5	24.1	20.6	17.2	17.2	13.8	10.3	6.9	6.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)