

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: P651350

Luminaire Tested: **GALN-SA4D-840-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651350
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-840-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19168.1 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

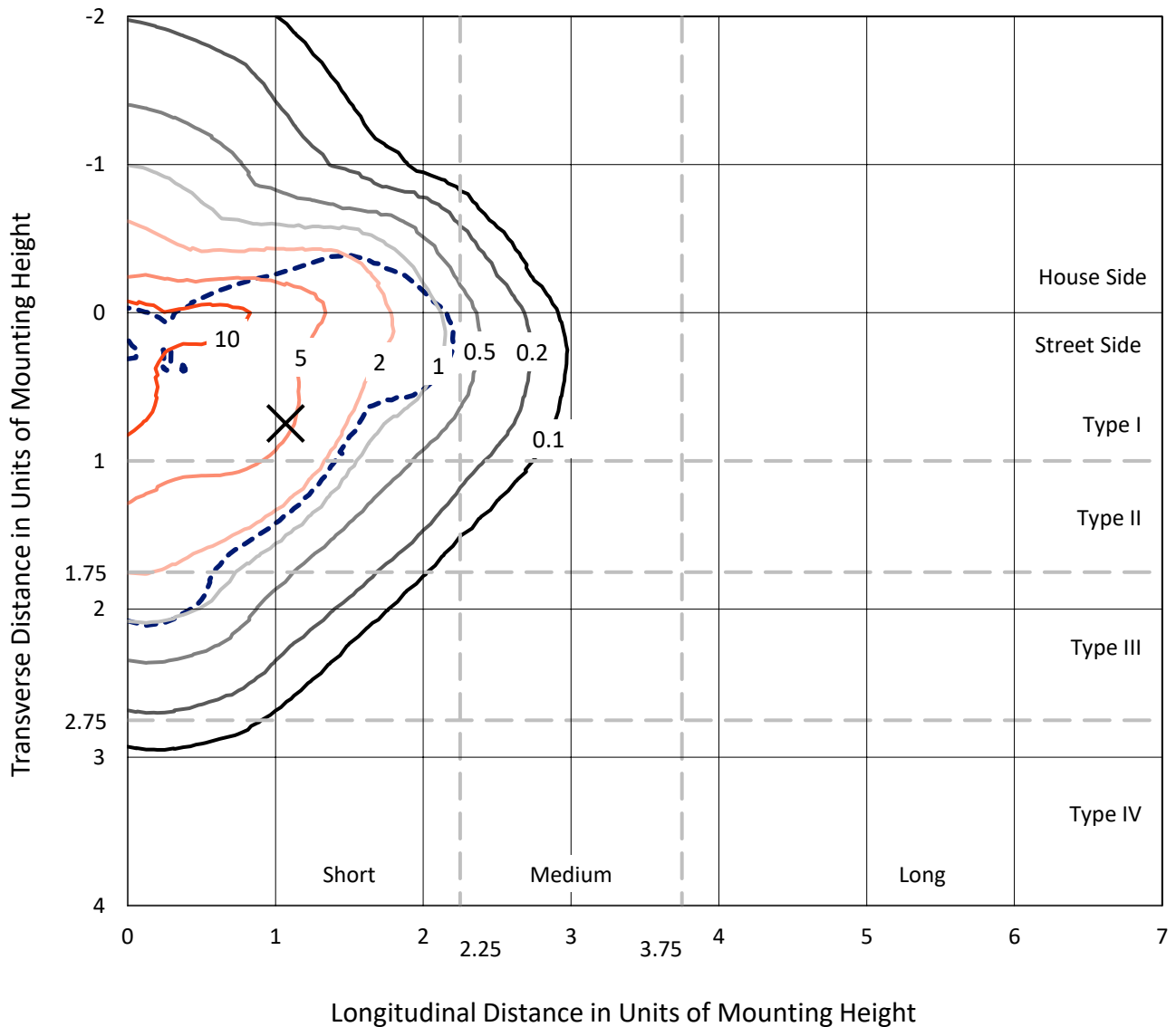
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

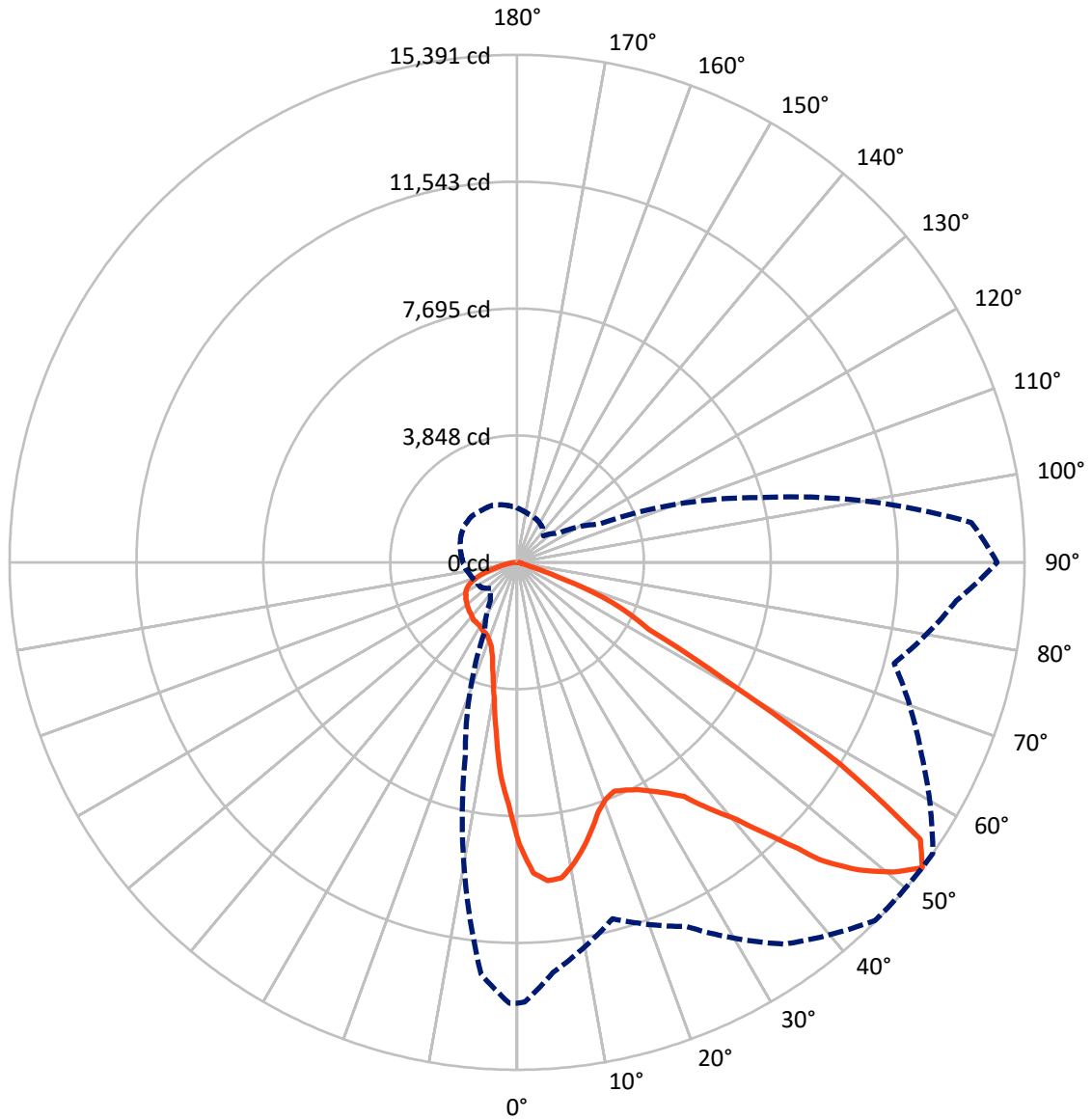
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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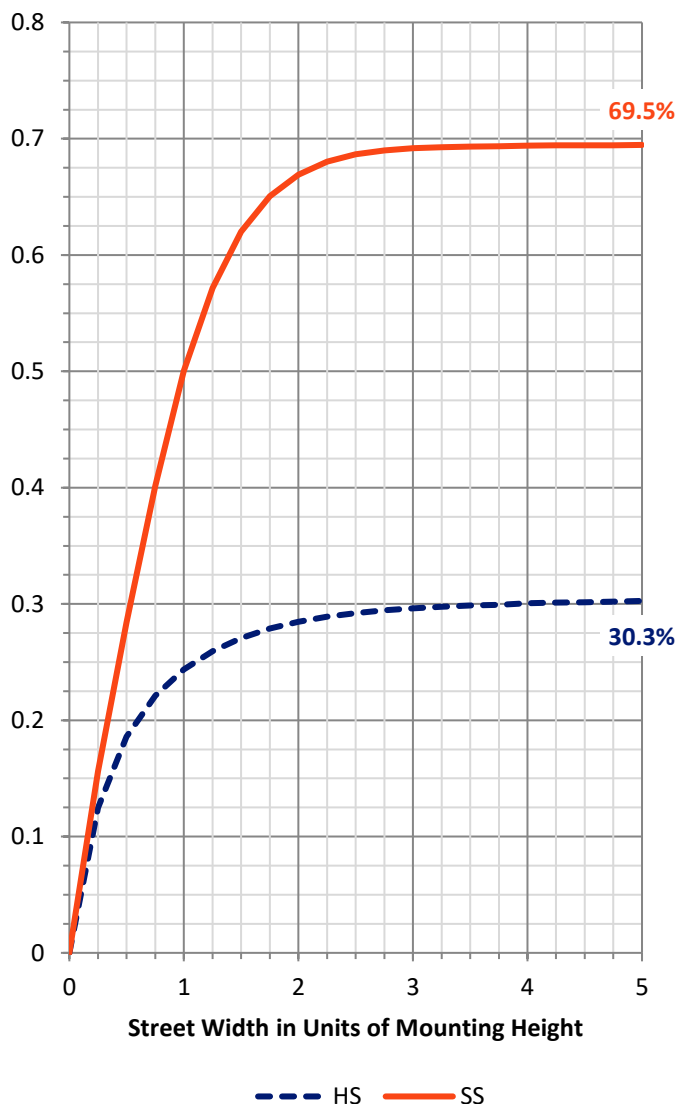
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5847.3	0.0	5847.3
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	13320.8	0.0	13320.8
	% Fixture	69.5	0.0	69.5
Total	Lumens	19168.1	0.0	19168.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	653.2	3.4
10°-20°	1408.5	7.3
20°-30°	2135.7	11.1
30°-40°	3085.7	16.1
40°-50°	4123.4	21.5
50°-60°	4602.6	24.0
60°-70°	2524.7	13.2
70°-80°	545.8	2.8
80°-90°	88.3	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°	19168.1	100.0
0°-180°	19168.1	100.0

Coefficient of Utilization



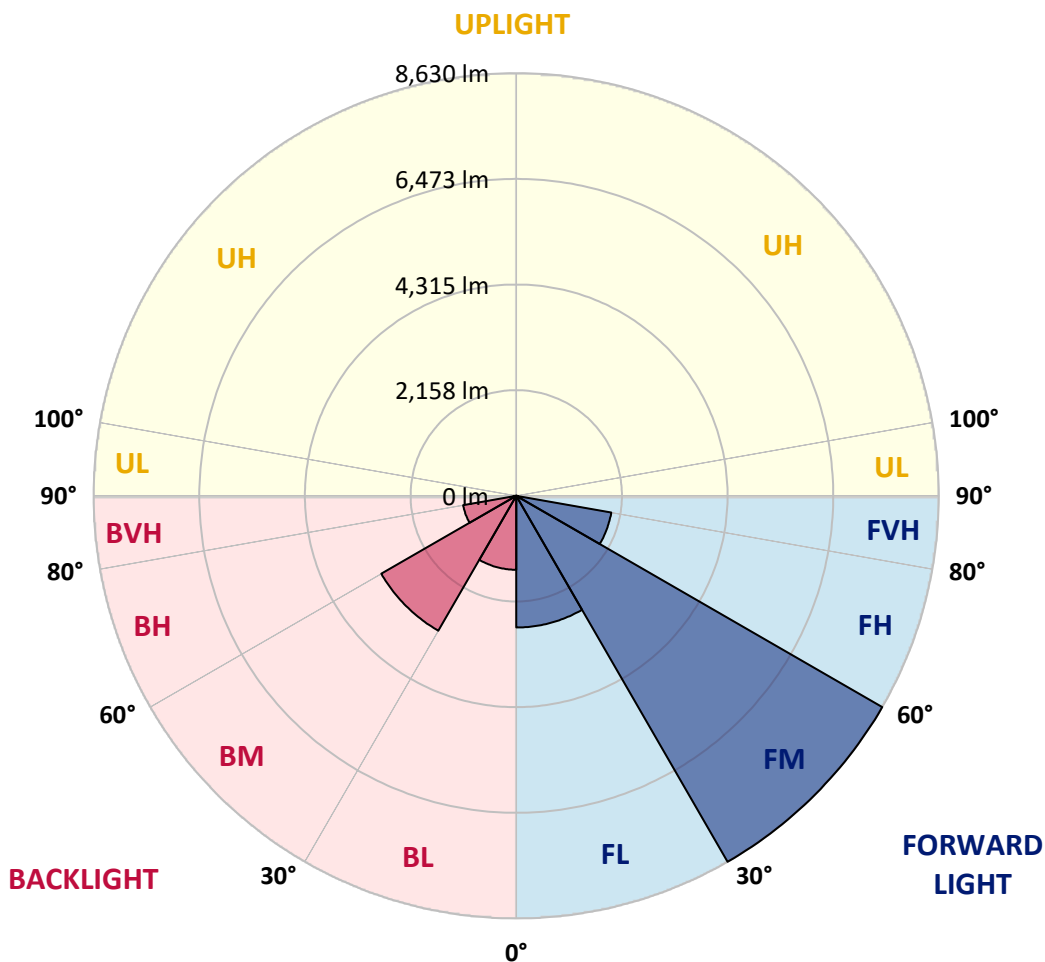
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2687.7	14.0			
FM (30°-60°)	8630.4	45.0			
FH (60°-80°)	1970.0	10.3			G2/5000
FVH (80°-90°)	32.7	0.2			G1/100
BL (0°-30°)	1509.7	7.9	B3/2500		
BM (30°-60°)	3181.4	16.6	B3/5000		
BH (60°-80°)	1100.6	5.7	B3/2500		G3/2500
BVH (80°-90°)	55.6	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8550.4	8550.4	8550.4	8550.4	8550.4	8550.4	8550.4	8550.4	8550.4	8550.4	8550.4
2.5°	8973.0	8922.7	8967.5	9180.2	9303.3	9387.3	9440.5	9432.1	9230.6	9034.6	9034.6
5°	8710.0	8645.6	8738.0	9219.4	9703.5	9745.5	9815.5	9700.8	9404.1	9045.8	8598.0
7.5°	7948.7	7996.3	8150.2	8782.7	9412.5	9728.8	9812.7	9667.2	9185.7	8516.9	7859.1
10°	7291.0	7402.9	7758.4	8441.3	9020.7	9432.1	9524.4	9320.1	8939.5	8119.4	7531.7
12.5°	7064.2	6994.3	7388.9	8071.8	8626.1	8847.2	8889.1	8903.1	8645.6	7917.9	7201.4
15°	7036.3	7081.1	7388.9	7906.7	8248.2	8259.4	8329.3	8438.5	8472.1	8055.0	7355.3
17.5°	7439.3	7386.2	7702.4	8113.8	7951.5	7789.2	7806.0	7962.7	8239.8	8172.6	7839.5
20°	8035.4	8155.8	8404.9	8362.9	7926.3	7514.8	7517.7	7666.1	8211.8	8659.6	8514.0
22.5°	9026.3	9143.8	9328.5	8821.9	7926.3	7433.7	7338.6	7540.1	8390.9	9239.0	9275.3
25°	9930.3	10145.7	10196.2	9600.0	8323.7	7509.3	7447.7	7646.5	8570.0	9804.3	10148.6
27.5°	10753.1	10831.5	11052.6	10101.0	8544.8	7559.7	7554.0	7808.8	8796.8	10087.0	10929.5
30°	11402.4	11394.0	11520.0	10417.3	8897.5	7842.3	7570.9	8052.2	9093.4	10554.4	11651.6
32.5°	11844.6	11939.8	12205.7	10856.7	9045.8	8111.0	7898.3	8337.8	9454.4	10775.5	12160.9
35°	12622.7	12787.9	12452.0	11100.2	9516.0	8376.9	8127.8	8726.8	9633.6	11016.3	12785.1
37.5°	13356.0	13230.1	12888.7	11231.7	9821.1	8869.5	8637.2	9479.7	10190.6	11539.6	13199.3
40°	13826.2	13823.4	13216.1	11338.1	10036.7	9622.4	9608.4	10243.7	10873.5	11869.9	13663.9
42.5°	14030.6	14226.4	13350.5	11326.9	10490.0	10534.8	10817.5	11385.6	11357.7	11937.1	13652.7
44°	14310.5	14428.0	13582.7	11352.1	10792.3	11150.6	11816.7	12177.8	11780.3	11900.7	13638.7
45°	14299.3	14307.7	13252.5	11385.6	11049.8	11665.5	12261.7	12871.8	12152.5	11822.3	13823.4
47.5°	13971.8	13876.7	12972.6	11136.6	11853.1	13025.7	13577.2	13946.6	12611.6	11654.3	13593.9
50°	13325.2	13216.1	12292.5	11030.2	12021.0	13871.0	14632.3	14766.7	13028.6	11489.2	13367.3
52.5°	13370.0	13339.3	12485.6	11189.8	12188.9	14137.0	15357.2	15390.8	13501.6	11836.2	13370.0
55°	14170.5	14064.1	13039.8	11388.5	12065.7	13826.2	14895.4	14836.7	13342.0	11626.4	13616.3
57.5°	12967.0	13037.0	12272.9	10602.0	10560.0	11240.1	11710.3	11564.8	11133.7	10492.8	12667.6
60°	10462.0	10660.8	10733.5	8866.7	7968.3	7618.5	7478.5	7221.0	7293.7	8620.4	11128.2
62.5°	8973.0	8961.9	9418.1	8038.3	5219.8	4489.3	4422.1	4480.9	5320.6	8486.1	10898.7
65°	7114.6	7304.9	7444.9	6812.4	4131.1	3333.4	3330.6	3702.8	4604.1	7092.2	8799.6
67.5°	4517.3	4766.5	4939.9	4357.8	2762.4	2373.4	2309.0	2756.9	3190.7	4651.7	5298.2
70°	2547.0	2664.5	2742.8	2513.3	1757.7	1231.5	1158.7	1265.0	1928.4	3011.5	3140.3
72.5°	982.4	1035.6	1141.9	1150.3	663.3	397.5	321.9	386.3	811.6	1192.3	1136.4
75°	151.1	162.3	229.5	274.3	190.3	145.6	153.9	159.5	226.7	307.9	257.5
77.5°	72.7	72.7	70.0	81.2	95.2	103.5	111.9	123.1	134.3	148.4	142.7
80°	47.6	47.6	47.6	56.0	70.0	83.9	95.2	100.8	106.4	117.6	111.9
82.5°	30.8	30.8	30.8	42.0	56.0	70.0	75.6	89.6	100.8	117.6	109.2
85°	16.8	16.8	16.8	28.0	42.0	58.8	56.0	44.7	25.2	2.8	5.6
87.5°	5.6	5.6	5.6	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	8550.4	8550.4	8550.4	8550.4	8550.4	8550.4	8550.4	8550.4	8550.4	8550.4	8550.4
2.5°	8799.6	8670.8	8659.6	8396.5	8161.4	8046.7	7954.3	7696.8	7752.8	7604.4	7601.6
5°	8374.1	8111.0	7685.6	7335.7	6985.9	6916.0	6610.8	6344.9	6353.3	6163.0	6196.7
7.5°	7610.0	7428.1	6910.3	6361.7	5897.2	5566.9	5278.6	5105.0	4883.9	4808.4	4769.2
10°	7125.9	6901.9	6319.8	5631.3	5110.7	4934.3	4657.3	4503.3	4276.7	4164.6	4086.3
12.5°	6913.1	6585.6	5858.0	5158.3	4811.2	4629.3	4394.1	4114.3	3845.6	3742.0	3599.3
15°	6935.5	6543.7	5723.6	4968.0	4550.9	4198.3	3988.4	3677.7	3403.4	3221.5	3117.9
17.5°	7274.1	6798.4	5785.2	4822.4	4223.4	3781.2	3369.8	3033.9	2815.7	2678.5	2644.9
20°	8074.6	7428.1	5888.8	4587.3	3896.0	3344.6	2838.0	2488.2	2320.2	2317.5	2320.2
22.5°	8740.8	8099.8	6098.7	4447.4	3568.5	2784.8	2281.0	2169.1	2135.6	2205.5	2213.8
25°	9639.2	8855.5	6459.7	4374.5	3266.3	2373.4	2062.7	2020.8	2018.0	2107.5	2110.3
27.5°	10560.0	9516.0	6675.2	4161.9	2958.4	2160.7	1931.2	1922.8	1967.6	2062.7	2054.3
30°	11187.0	10070.2	7064.2	3907.2	2594.5	1973.2	1878.0	1889.2	1950.8	2023.5	2034.7
32.5°	11917.5	10615.9	7165.0	3767.3	2370.6	1816.5	1749.3	1774.4	1852.8	1967.6	2029.2
35°	12754.3	11002.2	7319.0	3576.9	2286.7	1696.1	1662.5	1690.5	1785.7	1861.2	1928.4
37.5°	13372.8	11685.1	7347.0	3428.6	2194.3	1628.9	1575.8	1668.1	1724.0	1830.4	1864.0
40°	13831.8	12180.5	7419.7	3336.2	2121.5	1542.1	1542.1	1603.7	1679.3	1777.3	1844.4
42.5°	14125.7	12541.6	7472.9	3252.2	1981.6	1517.0	1503.0	1564.5	1665.3	1760.5	1791.2
44°	14304.8	12695.5	7419.7	3173.8	1942.4	1486.2	1486.2	1539.4	1617.7	1729.7	1766.1
45°	14349.6	12888.7	7302.2	3171.1	1894.8	1449.8	1444.2	1544.9	1598.2	1735.3	1757.7
47.5°	14523.1	13126.6	7316.2	3081.5	1780.1	1363.0	1461.0	1505.8	1553.3	1673.7	1749.3
50°	14517.6	13274.8	7285.3	2950.0	1696.1	1265.0	1427.4	1477.8	1525.4	1648.5	1679.3
52.5°	14556.8	13829.1	7568.1	2740.1	1544.9	1139.1	1315.5	1427.4	1486.2	1589.7	1654.1
55°	14537.2	14145.3	7848.0	2583.3	1332.2	1063.5	1220.3	1351.8	1435.8	1544.9	1575.8
57.5°	13277.7	12502.4	7263.0	2289.5	1102.7	974.0	1086.0	1273.4	1379.8	1491.8	1531.0
60°	10848.3	9636.4	5989.5	1684.9	906.9	895.7	1010.4	1248.3	1293.0	1391.0	1458.2
62.5°	10025.4	8452.5	4749.6	1287.5	775.3	820.1	932.0	1127.9	1197.9	1318.3	1379.8
65°	7845.1	5614.4	2941.6	870.4	682.9	736.1	842.4	988.0	1102.7	1214.7	1287.5
67.5°	4646.1	3067.5	1455.4	610.1	596.2	652.1	761.3	870.4	1002.0	1125.2	1161.5
70°	2530.1	1508.6	621.3	464.6	506.6	557.0	663.3	738.9	864.8	960.0	1021.6
72.5°	811.6	459.0	310.7	344.2	386.3	445.0	509.4	601.7	691.3	747.3	797.7
75°	196.0	193.1	221.1	240.7	279.9	324.6	377.9	425.5	495.4	548.6	593.3
77.5°	137.2	148.4	170.7	198.7	212.7	229.5	263.1	299.5	330.3	369.5	397.5
80°	106.4	114.7	131.5	145.6	159.5	173.5	190.3	204.3	223.9	249.1	263.1
82.5°	100.8	106.4	123.1	131.5	126.0	123.1	134.3	139.9	142.7	151.1	159.5
85°	8.4	0.0	5.6	19.6	47.6	70.0	75.6	75.6	72.7	78.4	78.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	11.2	8.4
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8550.4	8550.4	8550.4	8550.4	8550.4	8550.4	8550.4	8550.4	8550.4	8550.4	8550.4
2.5°	7568.1	7472.9	7509.3	7554.0	7489.7	7341.3	7380.5	7363.7	7514.8	7503.7	7654.8
5°	6344.9	6196.7	6213.4	6431.7	6361.7	6437.4	6286.2	6266.6	6294.5	6308.6	6333.7
7.5°	4856.0	4836.4	5004.3	5189.1	5275.8	5186.3	5037.9	5004.3	4973.5	4911.9	5051.9
10°	3963.1	3968.8	3957.6	4097.5	4195.4	4175.9	4086.3	4075.1	4016.4	3993.9	4072.3
12.5°	3537.8	3462.1	3425.8	3381.0	3456.6	3507.0	3467.8	3439.8	3442.5	3470.6	3481.7
15°	3126.3	3078.7	3000.4	2950.0	2986.4	2961.2	2947.2	3003.1	2989.2	2983.5	3050.7
17.5°	2664.5	2703.6	2698.1	2642.1	2689.7	2670.1	2667.3	2628.1	2574.9	2535.8	2558.2
20°	2359.4	2432.2	2488.2	2491.0	2516.2	2513.3	2471.4	2351.0	2311.8	2303.4	2309.0
22.5°	2250.3	2289.5	2356.7	2451.8	2451.8	2407.0	2356.7	2216.7	2180.3	2141.1	2124.3
25°	2163.5	2239.1	2325.9	2337.1	2381.8	2339.8	2258.7	2188.7	2113.1	2059.9	2059.9
27.5°	2118.7	2202.7	2267.1	2286.7	2348.2	2314.6	2230.7	2141.1	2051.5	2048.8	2001.2
30°	2099.1	2177.5	2219.5	2267.1	2295.0	2241.9	2216.7	2121.5	2031.9	2009.6	1931.2
32.5°	2040.4	2152.3	2230.7	2219.5	2241.9	2219.5	2183.1	2104.7	2003.9	1953.6	1945.1
35°	1973.2	2085.1	2169.1	2227.9	2241.9	2194.3	2171.9	2065.6	1928.4	1903.2	1816.5
37.5°	1936.8	2003.9	2107.5	2202.7	2222.3	2197.1	2121.5	2012.3	1875.3	1847.3	1771.7
40°	1892.0	1978.8	2059.9	2138.3	2197.1	2135.6	2048.8	1942.4	1880.8	1796.9	1774.4
42.5°	1858.4	1956.4	2023.5	2110.3	2177.5	2096.4	1995.6	1922.8	1836.1	1780.1	1715.7
44°	1847.3	1936.8	1981.6	2088.0	2143.9	2082.3	1998.4	1922.8	1822.0	1771.7	1715.7
45°	1808.1	1931.2	1978.8	2073.9	2121.5	2071.1	1964.7	1889.2	1816.5	1754.8	1696.1
47.5°	1768.9	1852.8	1934.0	2009.6	2043.1	2026.4	1936.8	1844.4	1757.7	1721.3	1665.3
50°	1757.7	1841.6	1917.2	1987.2	2026.4	1992.7	1911.6	1822.0	1721.3	1662.5	1614.9
52.5°	1701.7	1805.3	1889.2	1911.6	1962.0	1942.4	1880.8	1782.8	1687.7	1637.3	1598.2
55°	1620.5	1729.7	1844.4	1872.4	1945.1	1914.4	1822.0	1729.7	1648.5	1572.9	1522.5
57.5°	1589.7	1696.1	1808.1	1844.4	1889.2	1838.8	1816.5	1718.5	1589.7	1550.6	1472.2
60°	1511.4	1645.8	1738.1	1822.0	1824.8	1810.8	1771.7	1659.7	1553.3	1480.6	1424.6
62.5°	1449.8	1575.8	1648.5	1726.9	1774.4	1735.3	1696.1	1592.5	1477.8	1396.6	1332.2
65°	1360.2	1474.9	1536.6	1584.1	1637.3	1631.7	1564.5	1489.0	1368.6	1304.2	1242.7
67.5°	1223.1	1323.8	1407.8	1452.6	1486.2	1477.8	1427.4	1374.2	1251.1	1186.7	1141.9
70°	1058.0	1161.5	1214.7	1239.9	1273.4	1290.3	1251.1	1225.9	1116.8	1032.7	990.8
72.5°	850.8	918.0	996.4	1018.8	1032.7	1043.9	1043.9	1021.6	909.6	876.1	803.2
75°	627.0	680.1	738.9	738.9	764.0	766.9	772.5	758.5	674.5	629.7	612.9
77.5°	425.5	464.6	512.2	531.8	548.6	545.8	542.9	503.8	459.0	439.4	422.6
80°	277.1	316.3	338.7	363.8	380.6	377.9	383.4	355.5	335.9	302.3	307.9
82.5°	165.2	196.0	218.3	249.1	249.1	257.5	257.5	249.1	229.5	212.7	212.7
85°	78.4	103.5	117.6	137.2	148.4	151.1	134.3	114.7	95.2	86.8	95.2
87.5°	14.0	19.6	28.0	25.2	30.8	28.0	28.0	28.0	28.0	22.4	25.2
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°	8550.4	8550.4	8550.4	8550.4	8550.4	8550.4	8550.4	8550.4	8550.4	8550.4
2.5°	7598.9	7738.8	7836.8	7999.1	8279.0	8502.8	8732.4	8903.1	8922.7	8973.0
5°	6426.2	6501.7	6750.8	7075.4	7304.9	7682.8	7926.3	8368.5	8533.6	8710.0
7.5°	5018.3	5141.5	5474.5	5692.8	6196.7	6669.6	7159.4	7705.2	7923.5	7948.7
10°	4231.8	4411.0	4637.7	4987.6	5261.8	5788.0	6398.2	7005.4	7249.0	7291.0
12.5°	3716.9	3946.4	4248.6	4500.5	4763.6	5222.6	5807.6	6557.7	6873.9	7064.2
15°	3221.5	3459.4	3792.4	4142.3	4374.5	4923.1	5611.7	6456.9	6868.4	7036.3
17.5°	2712.1	2933.2	3207.5	3585.3	4052.7	4668.5	5580.9	6792.8	7243.4	7439.3
20°	2275.5	2398.6	2717.7	3106.7	3691.7	4408.2	5592.1	7288.2	7948.7	8035.4
22.5°	2104.7	2132.7	2258.7	2616.9	3257.9	4142.3	5790.8	7990.7	8740.8	9026.3
25°	1973.2	1967.6	2001.2	2241.9	2941.6	4038.7	5986.7	8637.2	9619.6	9930.3
27.5°	1900.4	1844.4	1847.3	2073.9	2717.7	3870.8	6238.6	9378.9	10615.9	10753.1
30°	1864.0	1852.8	1819.3	1911.6	2474.1	3618.9	6280.6	10109.4	11203.7	11402.4
32.5°	1841.6	1732.5	1690.5	1724.0	2244.6	3344.6	6437.4	10590.8	11931.4	11844.6
35°	1729.7	1631.7	1603.7	1637.3	2082.3	3190.7	6333.7	11010.6	12477.2	12622.7
37.5°	1687.7	1600.9	1544.9	1517.0	1931.2	3061.9	6280.6	11657.2	13006.1	13356.0
40°	1648.5	1556.2	1489.0	1461.0	1813.6	2891.2	6263.8	12155.3	13616.3	13826.2
42.5°	1603.7	1544.9	1469.4	1419.0	1670.9	2720.5	6070.7	12309.3	13803.8	14030.6
44°	1589.7	1500.2	1421.8	1405.0	1614.9	2633.7	6031.5	12449.2	13966.2	14310.5
45°	1575.8	1491.8	1402.2	1379.8	1595.4	2586.2	5978.3	12482.8	14234.9	14299.3
47.5°	1536.6	1483.4	1396.6	1335.0	1553.3	2482.5	5818.8	12292.5	13960.6	13971.8
50°	1505.8	1444.2	1354.6	1234.3	1497.4	2395.8	5891.5	12222.5	13300.1	13325.2
52.5°	1472.2	1379.8	1329.5	1122.3	1405.0	2323.0	6045.4	12538.8	13375.6	13370.0
55°	1433.0	1332.2	1209.1	1027.2	1251.1	2230.7	6417.8	13162.9	14075.3	14170.5
57.5°	1371.4	1284.6	1108.4	943.2	1074.7	2054.3	6297.4	11967.9	12950.2	12967.0
60°	1290.3	1209.1	1004.7	878.8	881.6	1620.5	5631.3	9325.7	10218.6	10462.0
62.5°	1211.9	1167.1	918.0	786.5	750.1	1290.3	4760.8	7750.0	8771.5	8973.0
65°	1119.5	1010.4	842.4	716.5	643.7	904.0	3372.6	5790.8	6843.1	7114.6
67.5°	1002.0	884.4	741.7	629.7	551.4	604.5	1740.9	3291.4	4357.8	4517.3
70°	876.1	766.9	624.1	531.8	445.0	417.1	766.9	1570.1	2381.8	2547.0
72.5°	719.3	618.6	498.2	419.8	333.0	288.3	257.5	419.8	845.3	982.4
75°	520.6	450.6	375.1	299.5	235.1	184.7	151.1	126.0	139.9	151.1
77.5°	383.4	327.5	277.1	212.7	165.2	131.5	103.5	78.4	75.6	72.7
80°	299.5	265.9	221.1	170.7	128.8	98.0	72.7	53.2	47.6	47.6
82.5°	235.1	218.3	181.9	139.9	106.4	78.4	53.2	36.4	30.8	30.8
85°	89.6	89.6	131.5	114.7	81.2	56.0	36.4	19.6	16.8	16.8
87.5°	22.4	22.4	22.4	22.4	19.6	16.8	16.8	8.4	5.6	5.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)