

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: P529380

Luminaire Tested: **GALN-SA4C-735-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529380
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-SA4C-735-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1050mA 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: 19295 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

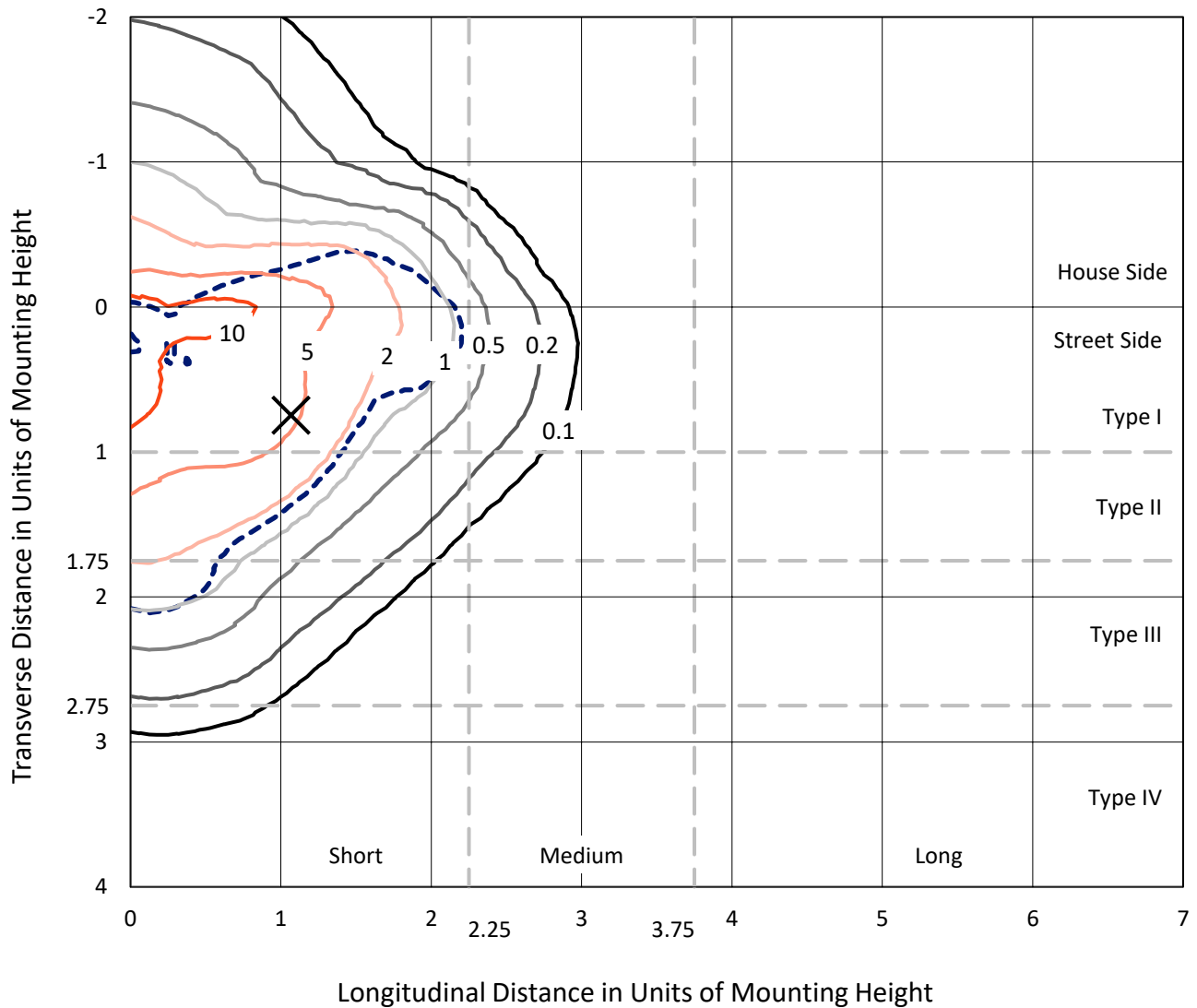
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

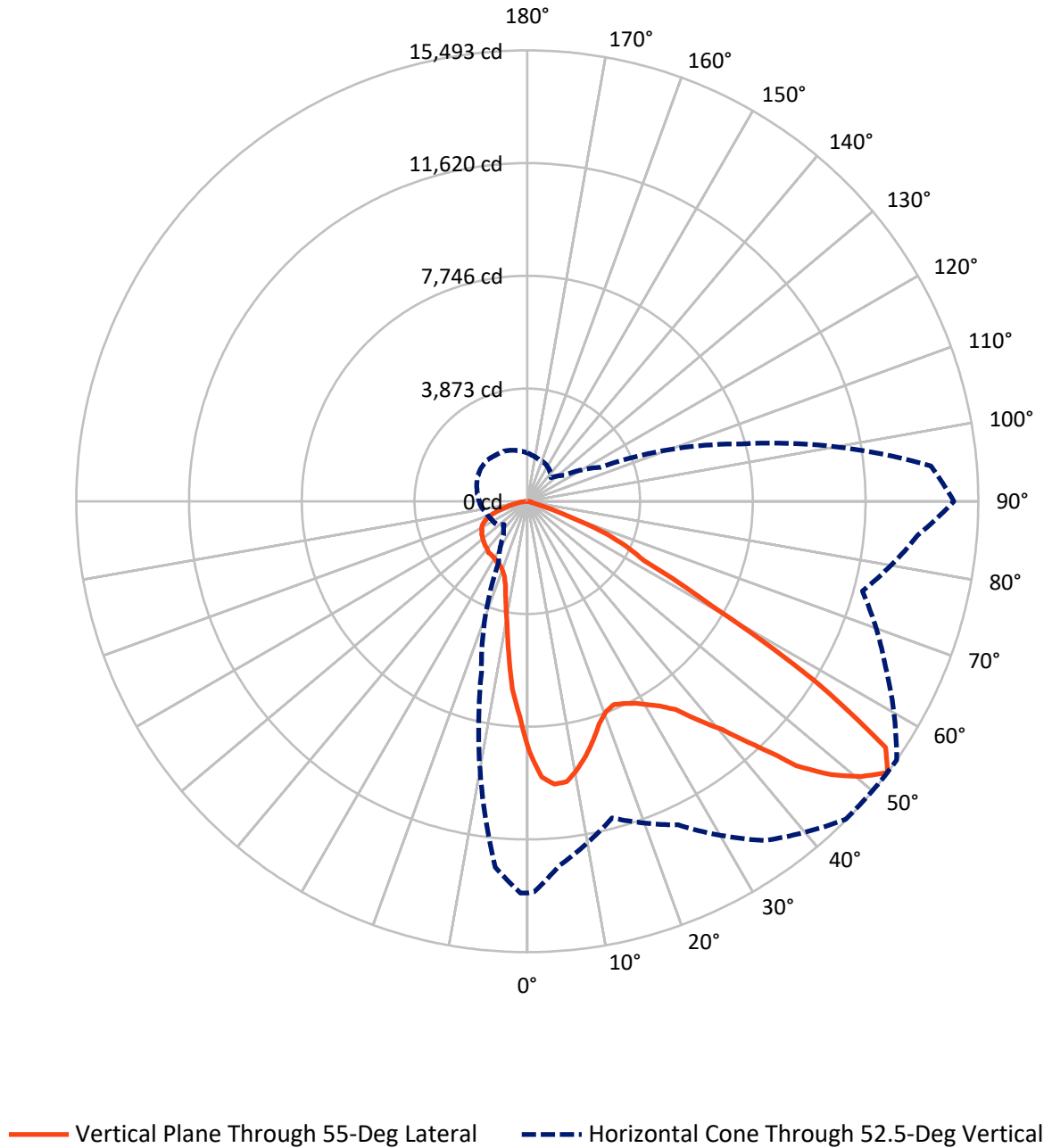
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5886.0	0.0	5886.0
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	13409.0	0.0	13409.0
	% Fixture	69.5	0.0	69.5
Total	Lumens	19295.0	0.0	19295.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	657.6	3.4
10°-20°	1417.8	7.3
20°-30°	2149.8	11.1
30°-40°	3106.2	16.1
40°-50°	4150.7	21.5
50°-60°	4633.1	24.0
60°-70°	2541.5	13.2
70°-80°	549.5	2.8
80°-90°	88.9	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°	19295.0	100.0
0°-180°	19295.0	100.0

Coefficient of Utilization



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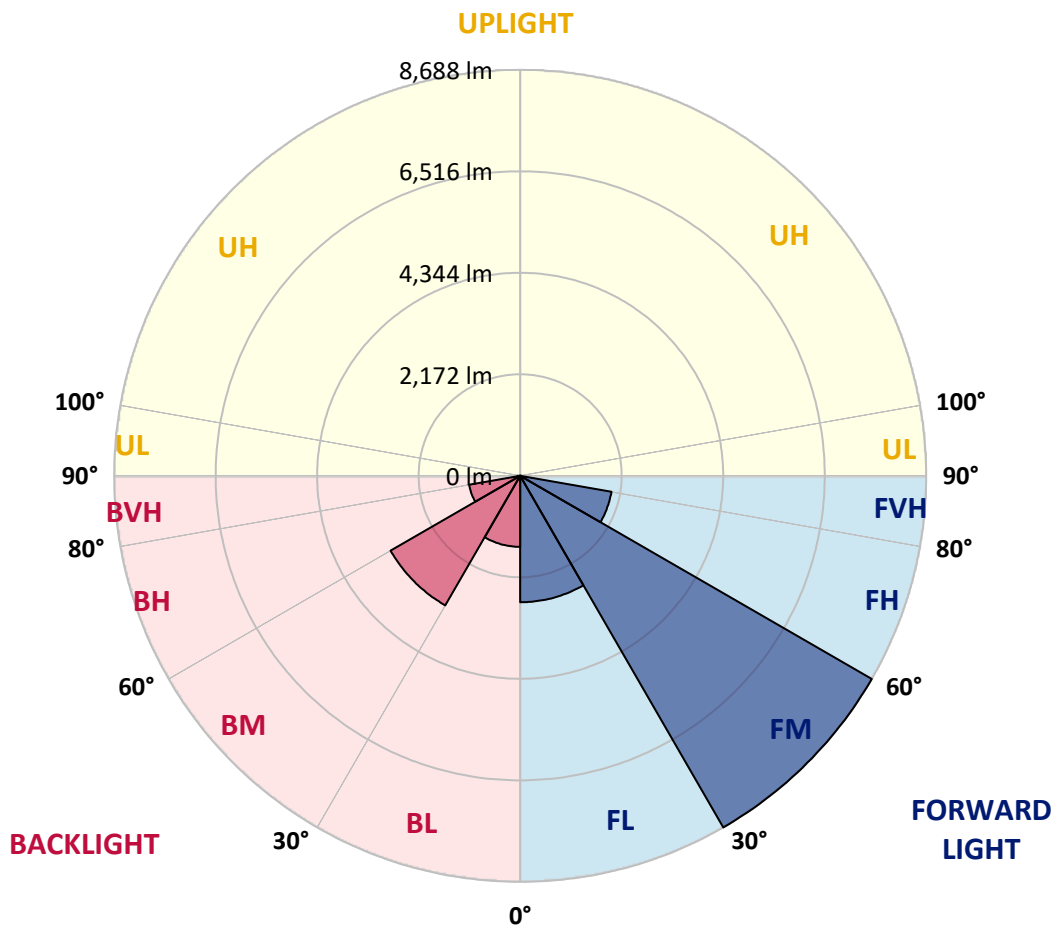
CATALOG NUMBER: GALN-SA4C-735-U-SLL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2705.5	14.0			
FM (30°-60°)	8687.5	45.0			
FH (60°-80°)	1983.0	10.3			G2/5000
FVH (80°-90°)	32.9	0.2			G1/100
BL (0°-30°)	1519.7	7.9	B3/2500		
BM (30°-60°)	3202.5	16.6	B3/5000		
BH (60°-80°)	1107.9	5.7	B3/2500		G3/2500
BVH (80°-90°)	56.0	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°	8607.1	8607.1	8607.1	8607.1	8607.1	8607.1	8607.1	8607.1	8607.1	8607.1	8607.1
2.5°	9032.5	8981.8	9026.9	9241.0	9364.9	9449.5	9503.0	9494.5	9291.7	9094.5	9094.5
5°	8767.7	8702.9	8795.8	9280.4	9767.8	9810.1	9880.5	9765.0	9466.4	9105.7	8655.0
7.5°	8001.3	8049.2	8204.2	8840.9	9474.8	9793.2	9877.7	9731.2	9246.6	8573.3	7911.2
10°	7339.2	7451.9	7809.7	8497.2	9080.4	9494.5	9587.5	9381.8	8998.7	8173.2	7581.5
12.5°	7111.0	7040.6	7437.9	8125.3	8683.1	8905.7	8948.0	8962.1	8702.9	7970.3	7249.1
15°	7082.9	7127.9	7437.9	7959.1	8302.8	8314.1	8384.5	8494.4	8528.2	8108.4	7404.0
17.5°	7488.6	7435.0	7753.4	8167.6	8004.1	7840.7	7857.6	8015.4	8294.3	8226.7	7891.5
20°	8088.7	8209.8	8460.6	8418.3	7978.8	7564.6	7567.5	7716.8	8266.2	8716.9	8570.4
22.5°	9086.0	9204.3	9390.3	8880.3	7978.8	7482.9	7387.1	7590.0	8446.5	9300.1	9336.8
25°	9996.0	10213.0	10263.7	9663.6	8378.9	7559.0	7497.0	7697.1	8626.8	9869.2	10215.8
27.5°	10824.3	10903.2	11125.8	10167.9	8601.4	7609.7	7604.1	7860.5	8855.0	10153.8	11001.8
30°	11478.0	11469.5	11596.3	10486.2	8956.4	7894.3	7621.0	8105.6	9153.6	10624.3	11728.7
32.5°	11923.1	12018.9	12286.5	10928.6	9105.7	8164.7	7950.6	8392.9	9517.1	10846.9	12241.5
35°	12706.3	12872.6	12534.5	11173.7	9579.1	8432.4	8181.6	8784.6	9697.4	11089.2	12869.7
37.5°	13444.5	13317.7	12974.0	11306.1	9886.1	8928.2	8694.4	9542.4	10258.0	11616.0	13286.7
40°	13917.8	13915.0	13303.6	11413.2	10103.1	9686.1	9672.0	10311.6	10945.5	11948.5	13754.4
42.5°	14123.5	14320.7	13438.9	11401.9	10559.5	10604.6	10889.1	11461.1	11432.9	12016.1	13743.1
44°	14405.2	14523.5	13672.7	11427.2	10863.8	11224.4	11894.9	12258.4	11858.3	11979.5	13729.0
45°	14393.9	14402.4	13340.2	11461.1	11123.0	11742.8	12342.9	12957.1	12233.0	11900.6	13915.0
47.5°	14064.3	13968.5	13058.5	11210.3	11931.6	13112.0	13667.1	14039.0	12695.1	11731.5	13684.0
50°	13413.5	13303.6	12373.9	11103.3	12100.6	13962.9	14729.2	14864.4	13114.9	11565.3	13455.8
52.5°	13458.6	13427.6	12568.3	11263.8	12269.6	14230.5	15458.9	15492.7	13591.0	11914.7	13458.6
55°	14264.3	14157.3	13126.1	11463.9	12145.7	13917.8	14994.0	14934.9	13430.4	11703.4	13706.5
57.5°	13052.9	13123.3	12354.2	10672.2	10629.9	11314.6	11787.9	11641.4	11207.5	10562.3	12751.4
60°	10531.3	10731.4	10804.6	8925.4	8021.0	7668.9	7528.0	7268.8	7342.1	8677.5	11201.9
62.5°	9032.5	9021.2	9480.4	8091.5	5254.4	4519.1	4451.4	4510.6	5355.8	8542.3	10970.8
65°	7161.8	7353.3	7494.2	6857.5	4158.4	3355.5	3352.7	3727.4	4634.6	7139.2	8857.8
67.5°	4547.2	4798.0	4972.7	4386.6	2780.7	2389.1	2324.3	2775.1	3211.8	4682.5	5333.3
70°	2563.8	2682.1	2761.0	2530.0	1769.3	1239.6	1166.4	1273.5	1941.2	3031.5	3161.1
72.5°	988.9	1042.4	1149.5	1157.9	667.7	400.1	324.0	388.8	817.0	1200.2	1143.9
75°	152.1	163.4	231.0	276.1	191.6	146.5	155.0	160.6	228.2	309.9	259.2
77.5°	73.3	73.3	70.4	81.7	95.8	104.2	112.7	124.0	135.2	149.3	143.7
80°	47.9	47.9	47.9	56.3	70.4	84.5	95.8	101.4	107.1	118.3	112.7
82.5°	31.0	31.0	31.0	42.3	56.3	70.4	76.1	90.2	101.4	118.3	109.9
85°	16.9	16.9	16.9	28.2	42.3	59.2	56.3	45.1	25.4	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°	8607.1	8607.1	8607.1	8607.1	8607.1	8607.1	8607.1	8607.1	8607.1	8607.1	8607.1
2.5°	8857.8	8728.2	8716.9	8452.1	8215.4	8099.9	8007.0	7747.8	7804.1	7654.8	7652.0
5°	8429.6	8164.7	7736.5	7384.3	7032.2	6961.7	6654.6	6387.0	6395.4	6203.8	6237.7
7.5°	7660.4	7477.3	6956.1	6403.9	5936.2	5603.7	5313.6	5138.9	4916.3	4840.2	4800.8
10°	7173.0	6947.6	6361.6	5668.5	5144.5	4967.0	4688.1	4533.1	4304.9	4192.2	4113.4
12.5°	6958.9	6629.3	5896.8	5192.4	4843.1	4659.9	4423.3	4141.5	3871.1	3766.8	3623.1
15°	6981.4	6587.0	5761.5	5000.8	4581.0	4226.1	4014.8	3702.0	3425.9	3242.8	3138.5
17.5°	7322.3	6843.4	5823.5	4854.3	4251.4	3806.3	3392.1	3054.0	2834.3	2696.2	2662.4
20°	8128.1	7477.3	5927.7	4617.7	3921.8	3366.8	2856.8	2504.6	2335.6	2332.8	2335.6
22.5°	8798.6	8153.5	6139.0	4476.8	3592.1	2803.3	2296.2	2183.5	2149.7	2220.1	2228.5
25°	9703.0	8914.2	6502.5	4403.5	3287.9	2389.1	2076.4	2034.1	2031.3	2121.5	2124.3
27.5°	10629.9	9579.1	6719.4	4189.4	2978.0	2175.0	1944.0	1935.5	1980.6	2076.4	2067.9
30°	11261.0	10136.9	7111.0	3933.0	2611.7	1986.2	1890.5	1901.7	1963.7	2037.0	2048.2
32.5°	11996.4	10686.3	7212.5	3792.2	2386.3	1828.5	1760.9	1786.2	1865.1	1980.6	2042.6
35°	12838.8	11075.1	7367.4	3600.6	2301.8	1707.3	1673.5	1701.7	1797.5	1873.6	1941.2
37.5°	13461.4	11762.5	7395.6	3451.3	2208.8	1639.7	1586.2	1679.2	1735.5	1842.6	1876.4
40°	13923.4	12261.2	7468.8	3358.3	2135.6	1552.4	1552.4	1614.4	1690.4	1789.0	1856.6
42.5°	14219.3	12624.6	7522.4	3273.8	1994.7	1527.0	1512.9	1574.9	1676.3	1772.1	1803.1
44°	14399.6	12779.6	7468.8	3194.9	1955.3	1496.0	1496.0	1549.6	1628.4	1741.1	1777.8
45°	14444.7	12974.0	7350.5	3192.1	1907.4	1459.4	1453.8	1555.2	1608.7	1746.8	1769.3
47.5°	14619.3	13213.5	7364.6	3101.9	1791.8	1372.1	1470.7	1515.7	1563.6	1684.8	1760.9
50°	14613.7	13362.8	7333.6	2969.5	1707.3	1273.5	1436.9	1487.6	1535.5	1659.4	1690.4
52.5°	14653.1	13920.6	7618.2	2758.2	1555.2	1146.7	1324.2	1436.9	1496.0	1600.3	1665.1
55°	14633.4	14239.0	7899.9	2600.4	1341.1	1070.6	1228.4	1360.8	1445.3	1555.2	1586.2
57.5°	13365.6	12585.2	7311.1	2304.6	1110.0	980.4	1093.1	1281.9	1389.0	1501.7	1541.1
60°	10920.1	9700.2	6029.2	1696.1	912.8	901.6	1017.1	1256.5	1301.6	1400.2	1467.8
62.5°	10091.8	8508.5	4781.1	1296.0	780.4	825.5	938.2	1135.4	1205.8	1327.0	1389.0
65°	7897.1	5651.6	2961.1	876.2	687.4	741.0	848.0	994.5	1110.0	1222.7	1296.0
67.5°	4676.8	3087.8	1465.0	614.2	600.1	656.4	766.3	876.2	1008.6	1132.6	1169.2
70°	2546.9	1518.6	625.5	467.7	509.9	560.7	667.7	743.8	870.6	966.4	1028.3
72.5°	817.0	462.0	312.7	346.5	388.8	448.0	512.8	605.7	695.9	752.2	803.0
75°	197.2	194.4	222.6	242.3	281.7	326.8	380.3	428.2	498.7	552.2	597.3
77.5°	138.1	149.3	171.9	200.0	214.1	231.0	264.8	301.5	332.4	371.9	400.1
80°	107.1	115.5	132.4	146.5	160.6	174.7	191.6	205.7	225.4	250.7	264.8
82.5°	101.4	107.1	124.0	132.4	126.8	124.0	135.2	140.9	143.7	152.1	160.6
85°	8.5	0.0	5.6	19.7	47.9	70.4	76.1	76.1	73.3	78.9	78.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	11.3	8.5
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8607.1	8607.1	8607.1	8607.1	8607.1	8607.1	8607.1	8607.1	8607.1	8607.1	8607.1
2.5°	7618.2	7522.4	7559.0	7604.1	7539.3	7390.0	7429.4	7412.5	7564.6	7553.4	7705.5
5°	6387.0	6237.7	6254.6	6474.3	6403.9	6479.9	6327.8	6308.1	6336.3	6350.3	6375.7
7.5°	4888.1	4868.4	5037.5	5223.4	5310.7	5220.6	5071.3	5037.5	5006.5	4944.5	5085.4
10°	3989.4	3995.0	3983.8	4124.6	4223.2	4203.5	4113.4	4102.1	4042.9	4020.4	4099.3
12.5°	3561.2	3485.1	3448.5	3403.4	3479.5	3530.2	3490.7	3462.5	3465.4	3493.5	3504.8
15°	3147.0	3099.1	3020.2	2969.5	3006.1	2980.8	2966.7	3023.0	3009.0	3003.3	3070.9
17.5°	2682.1	2721.6	2715.9	2659.6	2707.5	2687.8	2685.0	2645.5	2592.0	2552.5	2575.1
20°	2375.0	2448.3	2504.6	2507.5	2532.8	2530.0	2487.7	2366.6	2327.1	2318.7	2324.3
22.5°	2265.2	2304.6	2372.2	2468.0	2468.0	2422.9	2372.2	2231.4	2194.7	2155.3	2138.4
25°	2177.8	2253.9	2341.2	2352.5	2397.6	2355.3	2273.6	2203.2	2127.1	2073.6	2073.6
27.5°	2132.7	2217.3	2282.1	2301.8	2363.8	2330.0	2245.4	2155.3	2065.1	2062.3	2014.4
30°	2113.0	2191.9	2234.2	2282.1	2310.2	2256.7	2231.4	2135.6	2045.4	2022.9	1944.0
32.5°	2053.9	2166.6	2245.4	2234.2	2256.7	2234.2	2197.5	2118.7	2017.2	1966.5	1958.1
35°	1986.2	2098.9	2183.5	2242.6	2256.7	2208.8	2186.3	2079.2	1941.2	1915.8	1828.5
37.5°	1949.6	2017.2	2121.5	2217.3	2237.0	2211.6	2135.6	2025.7	1887.6	1859.5	1783.4
40°	1904.5	1991.9	2073.6	2152.5	2211.6	2149.7	2062.3	1955.3	1893.3	1808.8	1786.2
42.5°	1870.7	1969.3	2037.0	2124.3	2191.9	2110.2	2008.8	1935.5	1848.2	1791.8	1727.0
44°	1859.5	1949.6	1994.7	2101.8	2158.1	2096.1	2011.6	1935.5	1834.1	1783.4	1727.0
45°	1820.0	1944.0	1991.9	2087.7	2135.6	2084.9	1977.8	1901.7	1828.5	1766.5	1707.3
47.5°	1780.6	1865.1	1946.8	2022.9	2056.7	2039.8	1949.6	1856.6	1769.3	1732.7	1676.3
50°	1769.3	1853.8	1929.9	2000.3	2039.8	2006.0	1924.3	1834.1	1732.7	1673.5	1625.6
52.5°	1713.0	1817.2	1901.7	1924.3	1975.0	1955.3	1893.3	1794.7	1698.9	1648.2	1608.7
55°	1631.3	1741.1	1856.6	1884.8	1958.1	1927.1	1834.1	1741.1	1659.4	1583.4	1532.6
57.5°	1600.3	1707.3	1820.0	1856.6	1901.7	1851.0	1828.5	1729.9	1600.3	1560.8	1481.9
60°	1521.4	1656.6	1749.6	1834.1	1836.9	1822.8	1783.4	1670.7	1563.6	1490.4	1434.0
62.5°	1459.4	1586.2	1659.4	1738.3	1786.2	1746.8	1707.3	1603.1	1487.6	1405.9	1341.1
65°	1369.2	1484.8	1546.7	1594.6	1648.2	1642.5	1574.9	1498.8	1377.7	1312.9	1250.9
67.5°	1231.2	1332.6	1417.1	1462.2	1496.0	1487.6	1436.9	1383.3	1259.4	1194.6	1149.5
70°	1065.0	1169.2	1222.7	1248.1	1281.9	1298.8	1259.4	1234.0	1124.1	1039.6	997.3
72.5°	856.5	924.1	1003.0	1025.5	1039.6	1050.9	1050.9	1028.3	915.6	881.8	808.6
75°	631.1	684.6	743.8	743.8	769.1	772.0	777.6	763.5	679.0	633.9	617.0
77.5°	428.2	467.7	515.6	535.3	552.2	549.4	546.6	507.1	462.0	442.3	425.4
80°	278.9	318.4	340.9	366.3	383.2	380.3	386.0	357.8	338.1	304.3	309.9
82.5°	166.2	197.2	219.8	250.7	250.7	259.2	259.2	250.7	231.0	214.1	214.1
85°	78.9	104.2	118.3	138.1	149.3	152.1	135.2	115.5	95.8	87.3	95.8
87.5°	14.1	19.7	28.2	25.4	31.0	28.2	28.2	28.2	28.2	22.5	25.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P529380

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8607.1	8607.1	8607.1	8607.1	8607.1	8607.1	8607.1	8607.1	8607.1	8607.1
2.5°	7649.2	7790.0	7888.6	8052.0	8333.8	8559.2	8790.2	8962.1	8981.8	9032.5
5°	6468.7	6544.7	6795.5	7122.3	7353.3	7733.7	7978.8	8423.9	8590.2	8767.7
7.5°	5051.5	5175.5	5510.8	5730.5	6237.7	6713.8	7206.8	7756.2	7976.0	8001.3
10°	4259.9	4440.2	4668.4	5020.6	5296.7	5826.3	6440.5	7051.9	7297.0	7339.2
12.5°	3741.5	3972.5	4276.8	4530.3	4795.2	5257.2	5846.0	6601.1	6919.5	7111.0
15°	3242.8	3482.3	3817.5	4169.7	4403.5	4955.8	5648.8	6499.7	6913.8	7082.9
17.5°	2730.0	2952.6	3228.7	3609.0	4079.6	4699.4	5617.8	6837.8	7291.4	7488.6
20°	2290.5	2414.5	2735.7	3127.3	3716.1	4437.4	5629.1	7336.4	8001.3	8088.7
22.5°	2118.7	2146.8	2273.6	2634.2	3279.4	4169.7	5829.1	8043.6	8798.6	9086.0
25°	1986.2	1980.6	2014.4	2256.7	2961.1	4065.5	6026.4	8694.4	9683.3	9996.0
27.5°	1913.0	1856.6	1859.5	2087.7	2735.7	3896.4	6279.9	9441.0	10686.3	10824.3
30°	1876.4	1865.1	1831.3	1924.3	2490.6	3642.9	6322.2	10176.3	11277.9	11478.0
32.5°	1853.8	1744.0	1701.7	1735.5	2259.5	3366.8	6479.9	10660.9	12010.4	11923.1
35°	1741.1	1642.5	1614.4	1648.2	2096.1	3211.8	6375.7	11083.5	12559.8	12706.3
37.5°	1698.9	1611.5	1555.2	1527.0	1944.0	3082.2	6322.2	11734.3	13092.3	13444.5
40°	1659.4	1566.5	1498.8	1470.7	1825.7	2910.3	6305.3	12235.8	13706.5	13917.8
42.5°	1614.4	1555.2	1479.1	1428.4	1682.0	2738.5	6110.9	12390.8	13895.3	14123.5
44°	1600.3	1510.1	1431.2	1414.3	1625.6	2651.1	6071.4	12531.7	14058.7	14405.2
45°	1586.2	1501.7	1411.5	1389.0	1605.9	2603.2	6017.9	12565.5	14329.1	14393.9
47.5°	1546.7	1493.2	1405.9	1343.9	1563.6	2499.0	5857.3	12373.9	14053.0	14064.3
50°	1515.7	1453.8	1363.6	1242.5	1507.3	2411.7	5930.6	12303.5	13388.1	13413.5
52.5°	1481.9	1389.0	1338.3	1129.8	1414.3	2338.4	6085.5	12621.8	13464.2	13458.6
55°	1442.5	1341.1	1217.1	1034.0	1259.4	2245.4	6460.2	13250.1	14168.5	14264.3
57.5°	1380.5	1293.2	1115.7	949.5	1081.9	2067.9	6339.1	12047.1	13036.0	13052.9
60°	1298.8	1217.1	1011.4	884.7	887.5	1631.3	5668.5	9387.5	10286.2	10531.3
62.5°	1219.9	1174.8	924.1	791.7	755.1	1298.8	4792.3	7801.3	8829.6	9032.5
65°	1126.9	1017.1	848.0	721.2	648.0	910.0	3394.9	5829.1	6888.5	7161.8
67.5°	1008.6	890.3	746.6	633.9	555.0	608.6	1752.4	3313.2	4386.6	4547.2
70°	881.8	772.0	628.3	535.3	448.0	419.8	772.0	1580.5	2397.6	2563.8
72.5°	724.1	622.6	501.5	422.6	335.3	290.2	259.2	422.6	850.8	988.9
75°	524.0	453.6	377.5	301.5	236.7	185.9	152.1	126.8	140.9	152.1
77.5°	386.0	329.6	278.9	214.1	166.2	132.4	104.2	78.9	76.1	73.3
80°	301.5	267.7	222.6	171.9	129.6	98.6	73.3	53.5	47.9	47.9
82.5°	236.7	219.8	183.1	140.9	107.1	78.9	53.5	36.6	31.0	31.0
85°	90.2	90.2	132.4	115.5	81.7	56.3	36.6	19.7	16.9	16.9
87.5°	22.5	22.5	22.5	22.5	19.7	16.9	16.9	8.5	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)