

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: P647390

Luminaire Tested: **GALN-SA4D-835-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647390
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-835-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 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: 17846.1 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

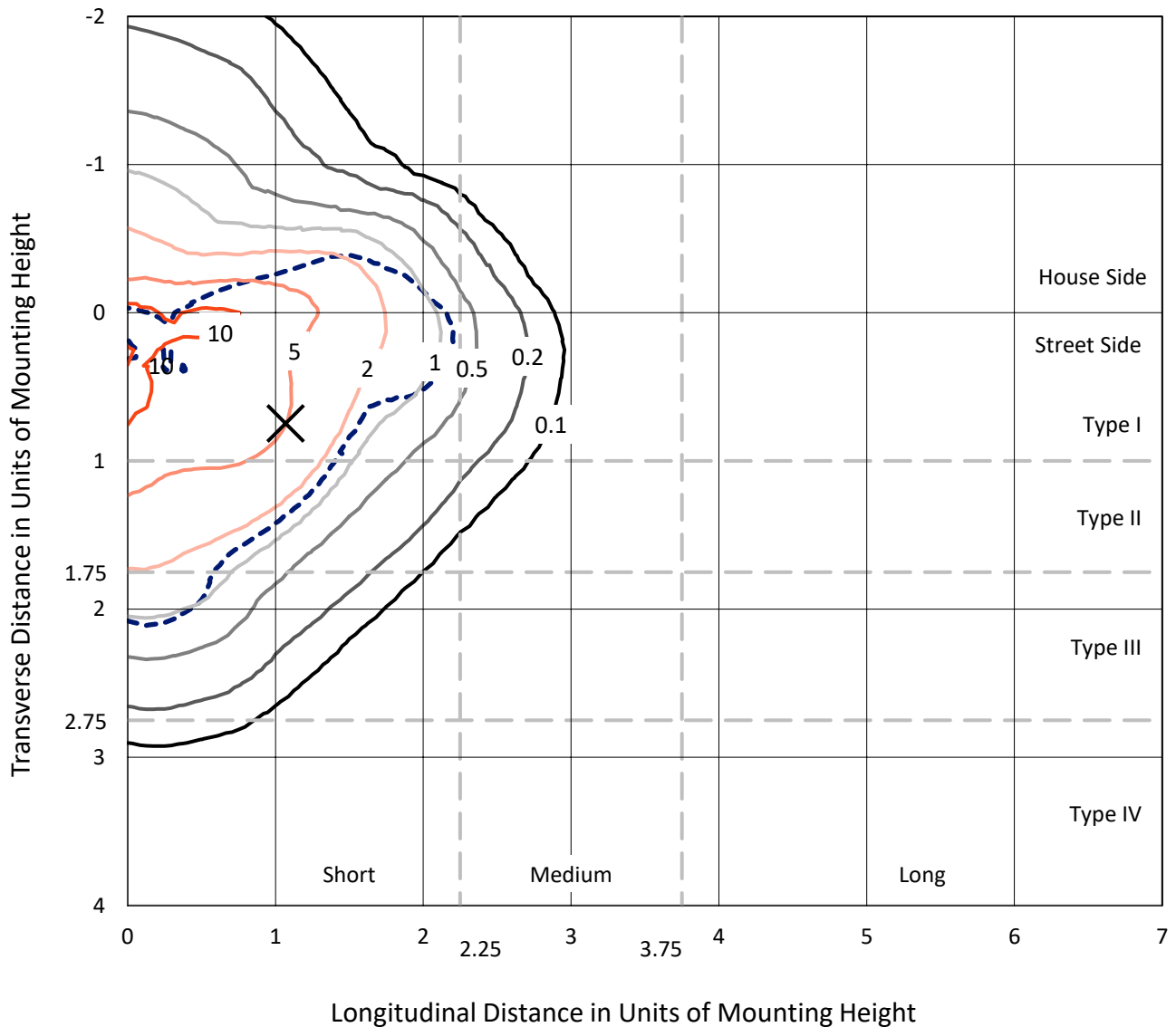
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

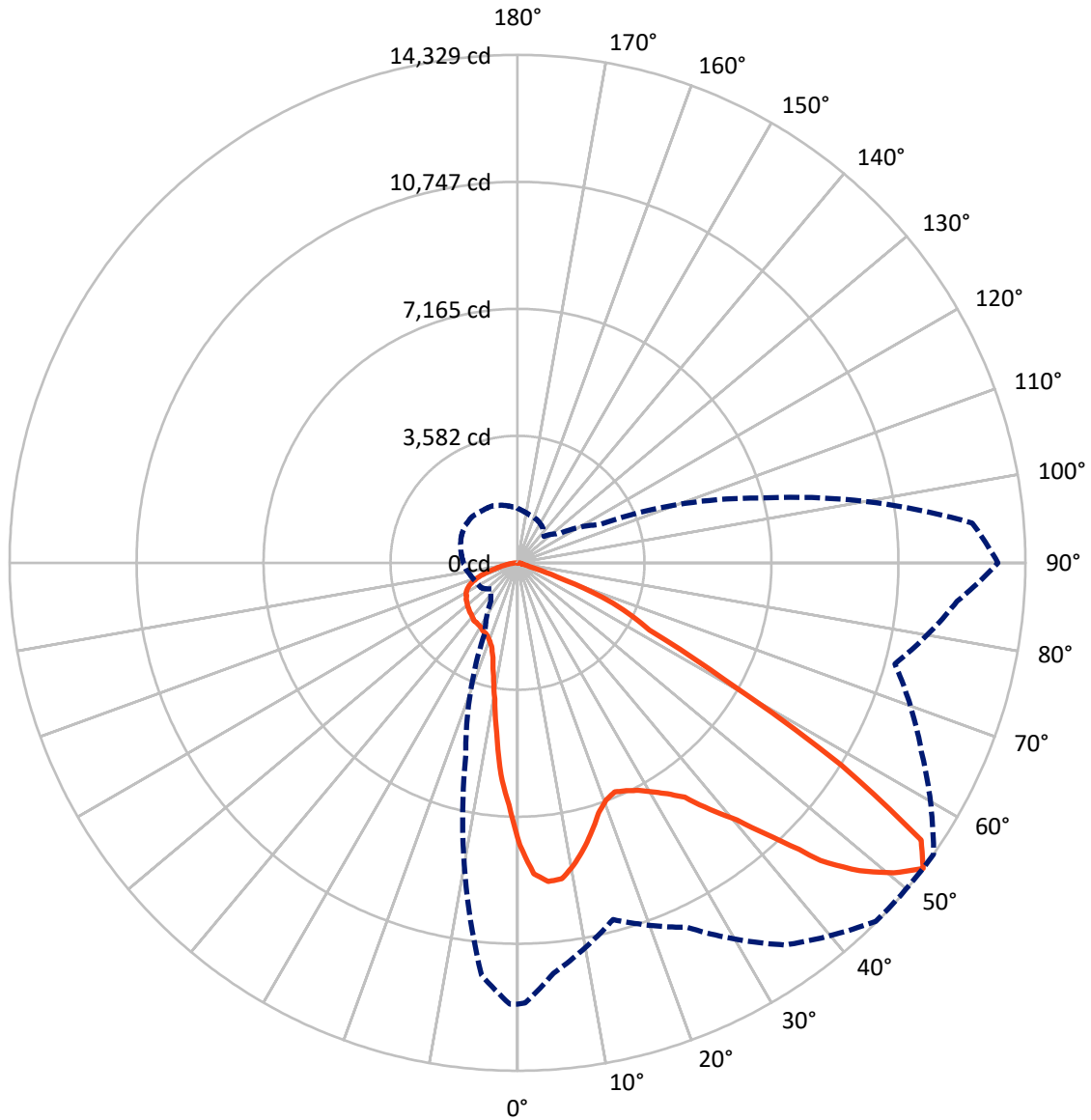
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 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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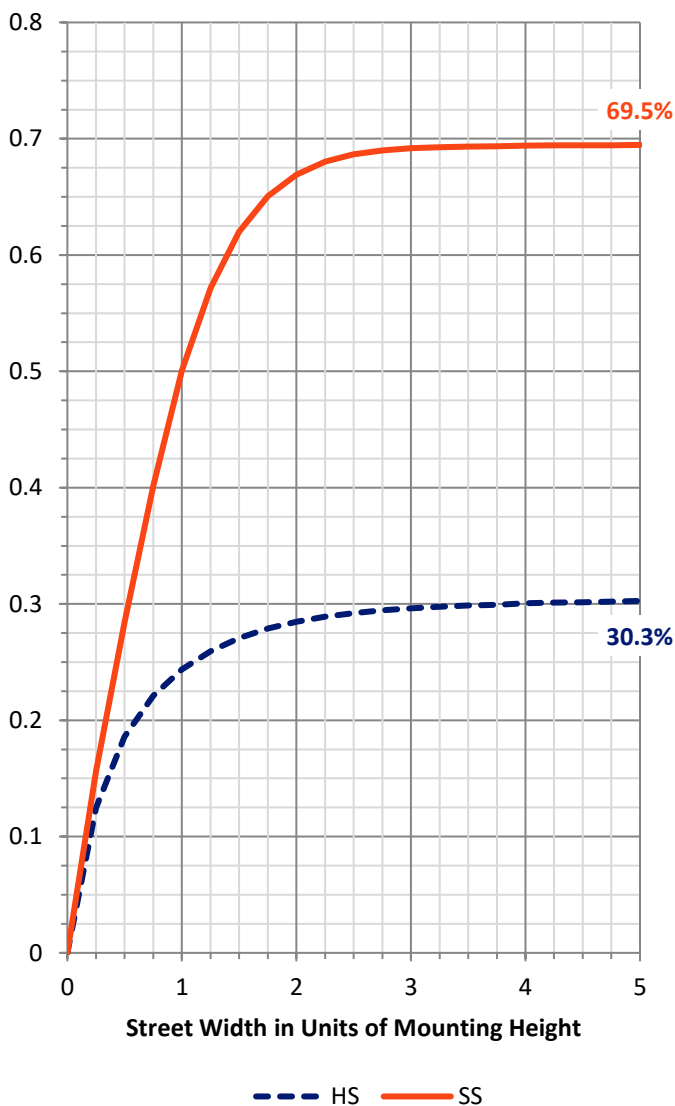
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5444.0	0.0	5444.0
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	12402.1	0.0	12402.1
	% Fixture	69.5	0.0	69.5
Total	Lumens	17846.1	0.0	17846.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	608.2	3.4
10°-20°	1311.3	7.3
20°-30°	1988.4	11.1
30°-40°	2872.9	16.1
40°-50°	3839.0	21.5
50°-60°	4285.2	24.0
60°-70°	2350.6	13.2
70°-80°	508.2	2.8
80°-90°	82.2	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°	17846.1	100.0
0°-180°	17846.1	100.0

Coefficient of Utilization



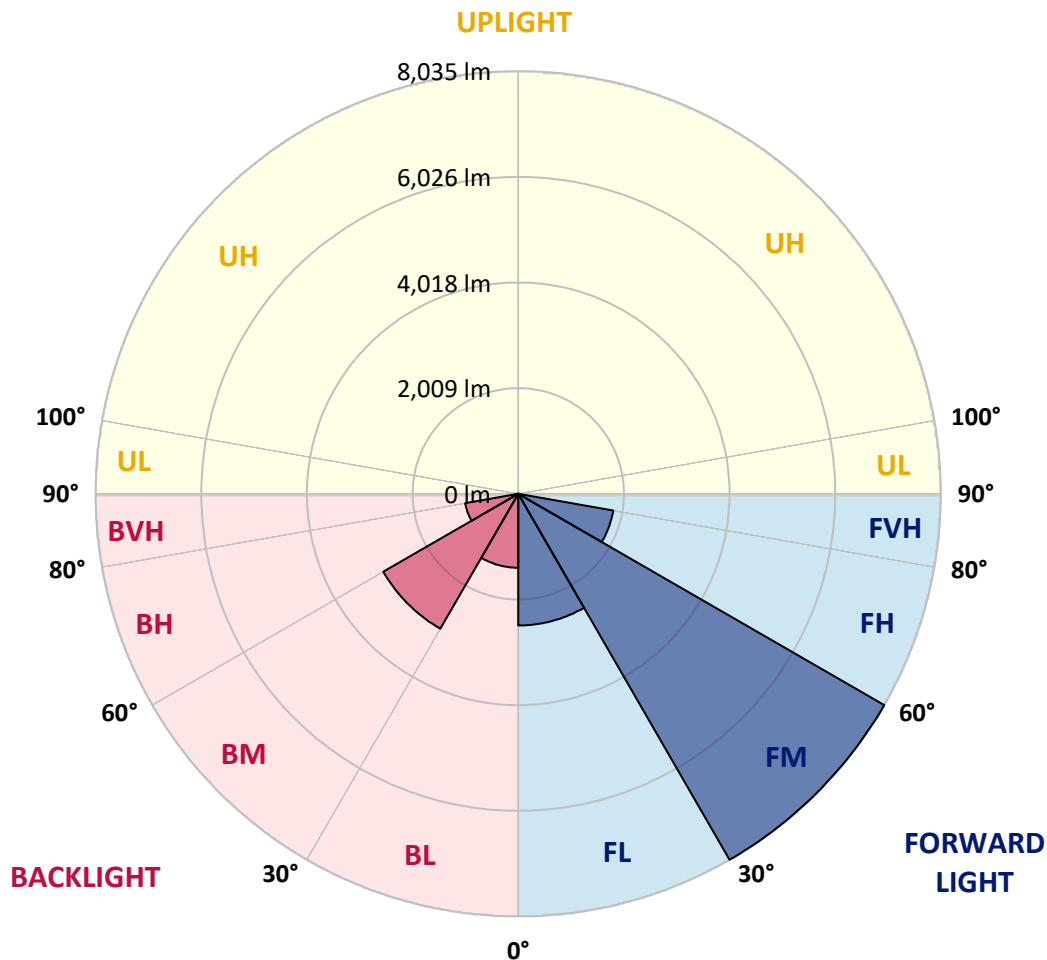
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2502.4	14.0			
FM (30°-60°)	8035.2	45.0			
FH (60°-80°)	1834.1	10.3			G2/5000
FVH (80°-90°)	30.4	0.2			G1/100
BL (0°-30°)	1405.6	7.9	B3/2500		
BM (30°-60°)	2962.0	16.6	B3/5000		
BH (60°-80°)	1024.7	5.7	B3/2500		G3/2500
BVH (80°-90°)	51.8	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7960.8	7960.8	7960.8	7960.8	7960.8	7960.8	7960.8	7960.8	7960.8	7960.8	7960.8
2.5°	8354.2	8307.3	8349.1	8547.1	8661.7	8739.9	8789.4	8781.6	8594.0	8411.5	8411.5
5°	8109.3	8049.3	8135.4	8583.6	9034.3	9073.4	9138.5	9031.7	8755.5	8421.9	8005.1
7.5°	7400.5	7444.8	7588.1	8177.0	8763.3	9057.8	9136.0	9000.5	8552.2	7929.5	7317.1
10°	6788.1	6892.4	7223.3	7859.1	8398.5	8781.6	8867.6	8677.4	8323.0	7559.5	7012.2
12.5°	6577.0	6511.9	6879.4	7515.2	8031.2	8237.0	8276.1	8289.1	8049.3	7371.9	6704.8
15°	6551.0	6592.7	6879.4	7361.5	7679.4	7689.8	7754.9	7856.5	7887.8	7499.5	6848.0
17.5°	6926.3	6876.8	7171.2	7554.2	7403.1	7252.0	7267.6	7413.5	7671.5	7609.0	7298.9
20°	7481.3	7593.3	7825.2	7786.2	7379.7	6996.6	6999.2	7137.4	7645.4	8062.4	7926.9
22.5°	8403.8	8513.2	8685.2	8213.5	7379.7	6921.0	6832.5	7020.1	7812.2	8601.8	8635.6
25°	9245.4	9446.0	9493.0	8937.9	7749.7	6991.4	6934.1	7119.1	7979.0	9128.1	9448.7
27.5°	10011.5	10084.5	10290.3	9404.4	7955.5	7038.3	7033.1	7270.2	8190.1	9391.4	10175.7
30°	10616.1	10608.2	10725.5	9698.9	8283.9	7301.5	7048.7	7496.9	8466.3	9826.5	10848.0
32.5°	11027.8	11116.4	11363.9	10108.0	8421.9	7551.6	7353.6	7762.7	8802.4	10032.3	11322.3
35°	11752.2	11906.0	11593.3	10334.7	8859.7	7799.2	7567.3	8125.0	8969.2	10256.5	11903.3
37.5°	12434.9	12317.7	11999.8	10457.1	9143.8	8257.8	8041.6	8825.9	9487.8	10743.8	12289.0
40°	12872.7	12870.1	12304.6	10556.2	9344.5	8958.8	8945.8	9537.3	10123.6	11051.3	12721.6
42.5°	13062.9	13245.3	12429.7	10545.8	9766.6	9808.2	10071.5	10600.4	10574.4	11113.8	12711.1
44°	13323.5	13433.0	12646.0	10569.2	10048.0	10381.6	11001.8	11337.9	10967.9	11079.9	12698.1
45°	13313.1	13320.9	12338.5	10600.4	10287.8	10861.0	11416.1	11984.1	11314.4	11006.9	12870.1
47.5°	13008.2	12919.7	12077.9	10368.6	11035.6	12127.4	12640.8	12984.8	11741.8	10850.6	12656.4
50°	12406.2	12304.6	11444.7	10269.5	11192.0	12914.4	13623.2	13748.3	12130.1	10696.9	12445.4
52.5°	12448.0	12419.3	11624.5	10418.0	11348.3	13162.0	14298.1	14329.4	12570.4	11019.9	12448.0
55°	13193.2	13094.2	12140.5	10603.1	11233.6	12872.7	13868.1	13813.5	12421.9	10824.6	12677.2
57.5°	12072.8	12137.9	11426.5	9870.8	9831.7	10465.0	10902.7	10767.2	10365.9	9769.2	11793.9
60°	9740.5	9925.5	9993.3	8255.2	7418.8	7093.0	6962.7	6723.0	6790.7	8025.9	10360.7
62.5°	8354.2	8343.8	8768.6	7483.9	4859.8	4179.7	4117.2	4171.9	4953.6	7900.9	10147.1
65°	6623.9	6801.1	6931.4	6342.5	3846.2	3103.5	3100.9	3447.5	4286.5	6603.1	8192.7
67.5°	4205.8	4437.7	4599.3	4057.3	2571.9	2209.7	2149.8	2566.8	2970.6	4330.9	4932.8
70°	2371.3	2480.7	2553.7	2340.0	1636.5	1146.5	1078.8	1177.8	1795.4	2803.8	2923.7
72.5°	914.6	964.2	1063.2	1071.0	617.6	370.0	299.7	359.6	755.7	1110.1	1058.0
75°	140.7	151.1	213.7	255.3	177.2	135.5	143.3	148.5	211.1	286.7	239.8
77.5°	67.7	67.7	65.1	75.6	88.6	96.4	104.2	114.6	125.0	138.1	132.9
80°	44.3	44.3	44.3	52.1	65.1	78.1	88.6	93.8	99.0	109.5	104.2
82.5°	28.7	28.7	28.7	39.1	52.1	65.1	70.4	83.4	93.8	109.5	101.6
85°	15.7	15.7	15.7	26.1	39.1	54.7	52.1	41.7	23.5	2.6	5.2
87.5°	5.2	5.2	5.2	5.2	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°	7960.8	7960.8	7960.8	7960.8	7960.8	7960.8	7960.8	7960.8	7960.8	7960.8	7960.8
2.5°	8192.7	8072.8	8062.4	7817.5	7598.5	7491.7	7405.7	7166.0	7218.1	7080.0	7077.4
5°	7796.6	7551.6	7155.5	6829.8	6504.1	6439.0	6154.9	5907.3	5915.2	5738.0	5769.3
7.5°	7085.2	6915.8	6433.8	5923.0	5490.5	5183.0	4914.6	4753.0	4547.1	4476.8	4440.3
10°	6634.4	6425.9	5883.9	5242.9	4758.2	4594.0	4336.1	4192.7	3981.7	3877.4	3804.5
12.5°	6436.3	6131.4	5454.0	4802.5	4479.4	4310.0	4091.1	3830.5	3580.4	3484.0	3351.1
15°	6457.2	6092.4	5328.9	4625.3	4237.0	3908.7	3713.3	3424.1	3168.6	2999.3	2902.9
17.5°	6772.5	6329.5	5386.2	4489.8	3932.1	3520.4	3137.4	2824.7	2621.5	2493.8	2462.5
20°	7517.7	6915.8	5482.6	4271.0	3627.3	3113.9	2642.3	2316.6	2160.2	2157.6	2160.2
22.5°	8138.0	7541.2	5678.1	4140.7	3322.4	2592.7	2123.7	2019.5	1988.3	2053.4	2061.2
25°	8974.4	8244.8	6014.2	4072.9	3041.0	2209.7	1920.5	1881.4	1878.8	1962.2	1964.8
27.5°	9831.7	8859.7	6214.8	3874.8	2754.4	2011.7	1798.0	1790.2	1831.9	1920.5	1912.6
30°	10415.5	9375.7	6577.0	3637.7	2415.6	1837.1	1748.5	1758.9	1816.2	1884.0	1894.4
32.5°	11095.6	9883.8	6670.8	3507.4	2207.1	1691.2	1628.6	1652.1	1725.0	1831.9	1889.2
35°	11874.7	10243.4	6814.2	3330.3	2129.0	1579.2	1547.8	1573.9	1662.5	1732.9	1795.4
37.5°	12450.6	10879.2	6840.3	3192.1	2042.9	1516.6	1467.1	1553.1	1605.2	1704.2	1735.4
40°	12877.9	11340.5	6908.0	3106.2	1975.2	1435.8	1435.8	1493.1	1563.5	1654.7	1717.2
42.5°	13151.5	11676.6	6957.5	3027.9	1844.9	1412.4	1399.3	1456.6	1550.5	1639.1	1667.7
44°	13318.3	11819.9	6908.0	2955.0	1808.4	1383.7	1383.7	1433.2	1506.2	1610.4	1644.3
45°	13360.0	11999.8	6798.6	2952.4	1764.1	1349.8	1344.6	1438.4	1487.9	1615.6	1636.5
47.5°	13521.5	12221.3	6811.6	2869.0	1657.3	1269.0	1360.2	1402.0	1446.2	1558.2	1628.6
50°	13516.4	12359.3	6782.9	2746.5	1579.2	1177.8	1329.0	1375.9	1420.2	1534.8	1563.5
52.5°	13552.9	12875.3	7046.1	2551.1	1438.4	1060.6	1224.8	1329.0	1383.7	1480.1	1540.0
55°	13534.6	13169.7	7306.7	2405.1	1240.4	990.2	1136.1	1258.6	1336.8	1438.4	1467.1
57.5°	12362.0	11640.2	6762.1	2131.6	1026.7	906.8	1011.1	1185.6	1284.7	1388.9	1425.4
60°	10100.2	8971.8	5576.4	1568.7	844.3	833.9	940.7	1162.2	1203.9	1295.1	1357.6
62.5°	9334.0	7869.5	4422.1	1198.7	721.8	763.5	867.7	1050.2	1115.3	1227.4	1284.7
65°	7304.1	5227.2	2738.7	810.4	635.8	685.4	784.3	919.9	1026.7	1130.9	1198.7
67.5°	4325.7	2856.0	1355.1	568.1	555.1	607.1	708.8	810.4	932.9	1047.6	1081.4
70°	2355.7	1404.5	578.5	432.5	471.7	518.6	617.6	687.9	805.2	893.8	951.1
72.5°	755.7	427.4	289.2	320.5	359.6	414.3	474.3	560.2	643.6	695.8	742.7
75°	182.4	179.8	205.9	224.1	260.6	302.2	351.8	396.1	461.3	510.8	552.4
77.5°	127.7	138.1	158.9	185.0	198.0	213.7	244.9	278.8	307.5	344.0	370.0
80°	99.0	106.8	122.5	135.5	148.5	161.5	177.2	190.2	208.4	231.9	244.9
82.5°	93.8	99.0	114.6	122.5	117.3	114.6	125.0	130.3	132.9	140.7	148.5
85°	7.8	0.0	5.2	18.2	44.3	65.1	70.4	70.4	67.7	73.0	73.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	10.4	7.8
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°	7960.8	7960.8	7960.8	7960.8	7960.8	7960.8	7960.8	7960.8	7960.8	7960.8	7960.8
2.5°	7046.1	6957.5	6991.4	7033.1	6973.2	6835.0	6871.5	6855.9	6996.6	6986.2	7126.9
5°	5907.3	5769.3	5784.9	5988.1	5923.0	5993.4	5852.7	5834.4	5860.4	5873.5	5896.9
7.5°	4521.1	4502.9	4659.2	4831.2	4912.0	4828.6	4690.5	4659.2	4630.5	4573.2	4703.5
10°	3689.8	3695.1	3684.6	3814.9	3906.1	3887.9	3804.5	3794.0	3739.4	3718.5	3791.4
12.5°	3293.8	3223.4	3189.6	3147.8	3218.2	3265.1	3228.6	3202.5	3205.1	3231.2	3241.6
15°	2910.7	2866.4	2793.4	2746.5	2780.4	2756.9	2743.9	2796.0	2783.0	2777.8	2840.3
17.5°	2480.7	2517.2	2512.0	2459.9	2504.2	2485.9	2483.4	2446.9	2397.3	2360.9	2381.7
20°	2196.7	2264.4	2316.6	2319.2	2342.7	2340.0	2300.9	2188.9	2152.4	2144.6	2149.8
22.5°	2095.1	2131.6	2194.1	2282.7	2282.7	2241.0	2194.1	2063.8	2029.9	1993.4	1977.8
25°	2014.3	2084.7	2165.5	2175.9	2217.5	2178.5	2102.9	2037.8	1967.4	1917.9	1917.9
27.5°	1972.6	2050.8	2110.7	2129.0	2186.3	2155.0	2076.8	1993.4	1910.1	1907.5	1863.1
30°	1954.4	2027.3	2066.4	2110.7	2136.7	2087.2	2063.8	1975.2	1891.8	1871.0	1798.0
32.5°	1899.6	2003.9	2076.8	2066.4	2087.2	2066.4	2032.5	1959.5	1865.7	1818.8	1811.0
35°	1837.1	1941.3	2019.5	2074.2	2087.2	2042.9	2022.1	1923.1	1795.4	1771.9	1691.2
37.5°	1803.2	1865.7	1962.2	2050.8	2069.0	2045.6	1975.2	1873.6	1745.9	1719.9	1649.5
40°	1761.5	1842.3	1917.9	1990.9	2045.6	1988.3	1907.5	1808.4	1751.1	1673.0	1652.1
42.5°	1730.3	1821.5	1884.0	1964.8	2027.3	1951.8	1858.0	1790.2	1709.4	1657.3	1597.4
44°	1719.9	1803.2	1844.9	1944.0	1996.0	1938.7	1860.6	1790.2	1696.4	1649.5	1597.4
45°	1683.4	1798.0	1842.3	1930.9	1975.2	1928.3	1829.2	1758.9	1691.2	1633.8	1579.2
47.5°	1646.9	1725.0	1800.6	1871.0	1902.2	1886.6	1803.2	1717.2	1636.5	1602.6	1550.5
50°	1636.5	1714.6	1785.0	1850.2	1886.6	1855.3	1779.8	1696.4	1602.6	1547.8	1503.5
52.5°	1584.3	1680.8	1758.9	1779.8	1826.7	1808.4	1751.1	1659.9	1571.3	1524.4	1487.9
55°	1508.8	1610.4	1717.2	1743.3	1811.0	1782.3	1696.4	1610.4	1534.8	1464.4	1417.5
57.5°	1480.1	1579.2	1683.4	1717.2	1758.9	1712.0	1691.2	1600.0	1480.1	1443.6	1370.6
60°	1407.1	1532.3	1618.2	1696.4	1699.0	1686.0	1649.5	1545.3	1446.2	1378.5	1326.3
62.5°	1349.8	1467.1	1534.8	1607.8	1652.1	1615.6	1579.2	1482.7	1375.9	1300.3	1240.4
65°	1266.4	1373.2	1430.6	1474.9	1524.4	1519.2	1456.6	1386.3	1274.3	1214.3	1157.0
67.5°	1138.7	1232.5	1310.7	1352.4	1383.7	1375.9	1329.0	1279.4	1164.8	1104.9	1063.2
70°	985.0	1081.4	1130.9	1154.4	1185.6	1201.3	1164.8	1141.4	1039.7	961.5	922.5
72.5°	792.2	854.7	927.7	948.5	961.5	971.9	971.9	951.1	846.9	815.7	747.8
75°	583.7	633.2	687.9	687.9	711.4	714.0	719.2	706.2	628.0	586.3	570.7
77.5°	396.1	432.5	476.8	495.1	510.8	508.2	505.5	469.0	427.4	409.1	393.5
80°	258.0	294.5	315.3	338.7	354.4	351.8	357.0	331.0	312.7	281.4	286.7
82.5°	153.8	182.4	203.3	231.9	231.9	239.8	239.8	231.9	213.7	198.0	198.0
85°	73.0	96.4	109.5	127.7	138.1	140.7	125.0	106.8	88.6	80.8	88.6
87.5°	13.0	18.2	26.1	23.5	28.7	26.1	26.1	26.1	26.1	20.8	23.5
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7960.8	7960.8	7960.8	7960.8	7960.8	7960.8	7960.8	7960.8	7960.8	7960.8
2.5°	7074.8	7205.1	7296.3	7447.4	7708.0	7916.4	8130.1	8289.1	8307.3	8354.2
5°	5983.0	6053.3	6285.2	6587.5	6801.1	7152.9	7379.7	7791.4	7945.1	8109.3
7.5°	4672.2	4786.9	5096.9	5300.2	5769.3	6209.7	6665.7	7173.8	7377.0	7400.5
10°	3940.0	4106.8	4317.9	4643.6	4898.9	5388.8	5956.9	6522.3	6749.1	6788.1
12.5°	3460.5	3674.2	3955.6	4190.1	4435.1	4862.4	5407.1	6105.4	6399.9	6577.0
15°	2999.3	3220.8	3530.9	3856.6	4072.9	4583.6	5224.6	6011.6	6394.7	6551.0
17.5°	2525.0	2730.9	2986.3	3338.0	3773.2	4346.5	5196.0	6324.3	6743.8	6926.3
20°	2118.6	2233.2	2530.3	2892.5	3437.1	4104.2	5206.4	6785.6	7400.5	7481.3
22.5°	1959.5	1985.6	2102.9	2436.5	3033.2	3856.6	5391.4	7439.6	8138.0	8403.8
25°	1837.1	1831.9	1863.1	2087.2	2738.7	3760.2	5573.9	8041.6	8956.2	9245.4
27.5°	1769.3	1717.2	1719.9	1930.9	2530.3	3603.8	5808.4	8732.1	9883.8	10011.5
30°	1735.4	1725.0	1693.8	1779.8	2303.5	3369.3	5847.4	9412.2	10431.0	10616.1
32.5°	1714.6	1613.0	1573.9	1605.2	2089.8	3113.9	5993.4	9860.4	11108.6	11027.8
35°	1610.4	1519.2	1493.1	1524.4	1938.7	2970.6	5896.9	10251.3	11616.7	11752.2
37.5°	1571.3	1490.5	1438.4	1412.4	1798.0	2850.7	5847.4	10853.2	12109.2	12434.9
40°	1534.8	1448.9	1386.3	1360.2	1688.5	2691.8	5831.8	11317.0	12677.2	12872.7
42.5°	1493.1	1438.4	1368.1	1321.2	1555.7	2532.8	5652.0	11460.4	12851.8	13062.9
44°	1480.1	1396.7	1323.7	1308.1	1503.5	2452.0	5615.5	11590.7	13003.0	13323.5
45°	1467.1	1388.9	1305.5	1284.7	1485.4	2407.8	5566.0	11621.9	13253.1	13313.1
47.5°	1430.6	1381.1	1300.3	1242.9	1446.2	2311.3	5417.5	11444.7	12997.8	13008.2
50°	1402.0	1344.6	1261.2	1149.1	1394.1	2230.6	5485.2	11379.6	12382.8	12406.2
52.5°	1370.6	1284.7	1237.8	1044.9	1308.1	2162.8	5628.5	11674.1	12453.1	12448.0
55°	1334.2	1240.4	1125.7	956.4	1164.8	2076.8	5975.2	12255.1	13104.6	13193.2
57.5°	1276.8	1196.0	1031.9	878.1	1000.6	1912.6	5863.1	11142.5	12057.1	12072.8
60°	1201.3	1125.7	935.5	818.2	820.8	1508.8	5242.9	8682.5	9513.8	9740.5
62.5°	1128.3	1086.6	854.7	732.3	698.4	1201.3	4432.5	7215.5	8166.6	8354.2
65°	1042.3	940.7	784.3	667.1	599.3	841.6	3140.0	5391.4	6371.2	6623.9
67.5°	932.9	823.4	690.5	586.3	513.3	562.8	1620.8	3064.4	4057.3	4205.8
70°	815.7	714.0	581.1	495.1	414.3	388.3	714.0	1461.9	2217.5	2371.3
72.5°	669.7	575.9	463.8	390.9	310.1	268.4	239.8	390.9	787.0	914.6
75°	484.7	419.5	349.2	278.8	218.9	171.9	140.7	117.3	130.3	140.7
77.5°	357.0	304.9	258.0	198.0	153.8	122.5	96.4	73.0	70.4	67.7
80°	278.8	247.6	205.9	158.9	119.9	91.2	67.7	49.5	44.3	44.3
82.5°	218.9	203.3	169.4	130.3	99.0	73.0	49.5	33.9	28.7	28.7
85°	83.4	83.4	122.5	106.8	75.6	52.1	33.9	18.2	15.7	15.7
87.5°	20.8	20.8	20.8	20.8	18.2	15.7	15.7	7.8	5.2	5.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)