

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: P648054

Luminaire Tested: **GALN-SA7A-835-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648054
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-835-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 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: 18574.4 lumens
Efficiency: N/A
Efficacy: 86.4 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

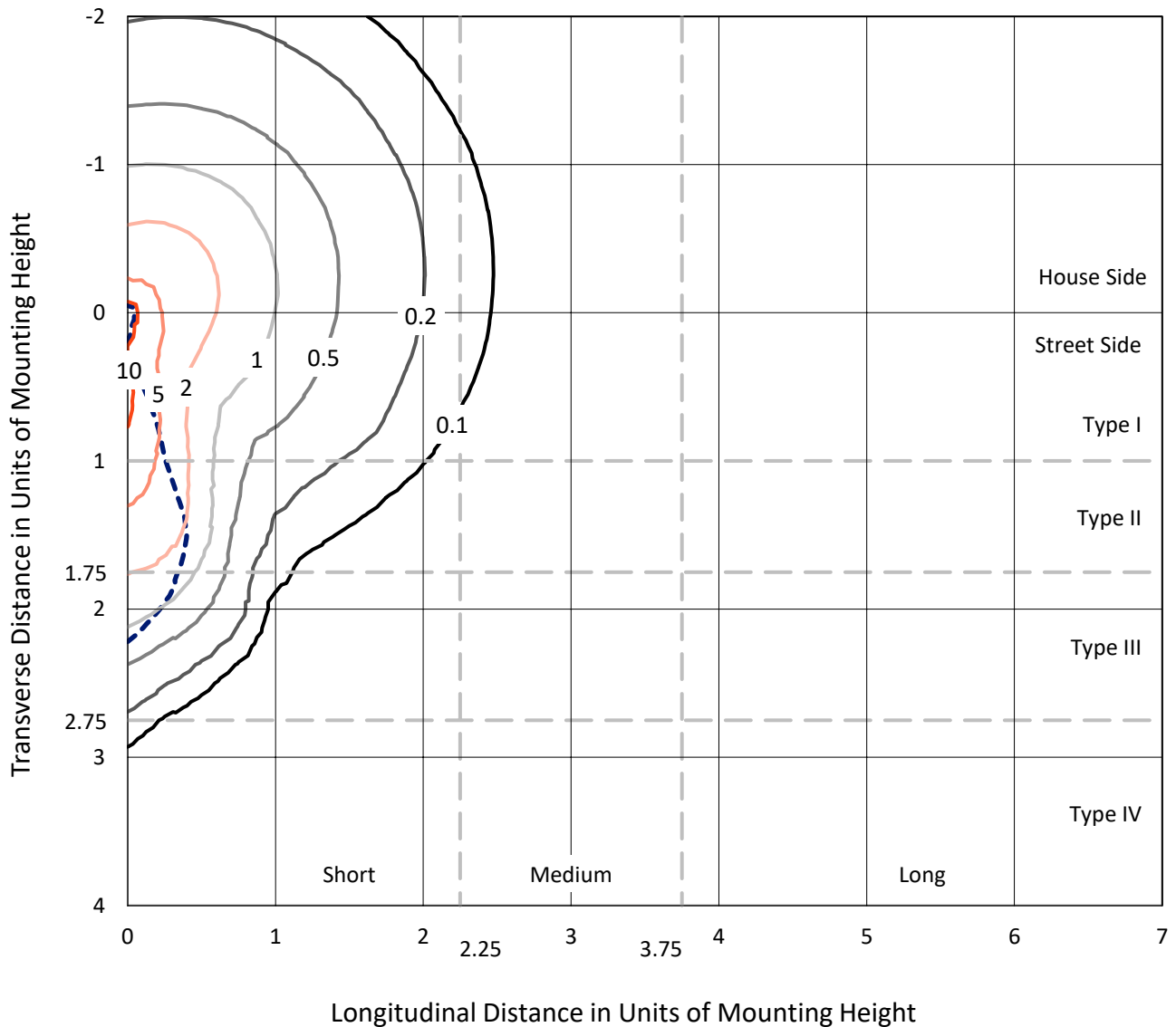
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

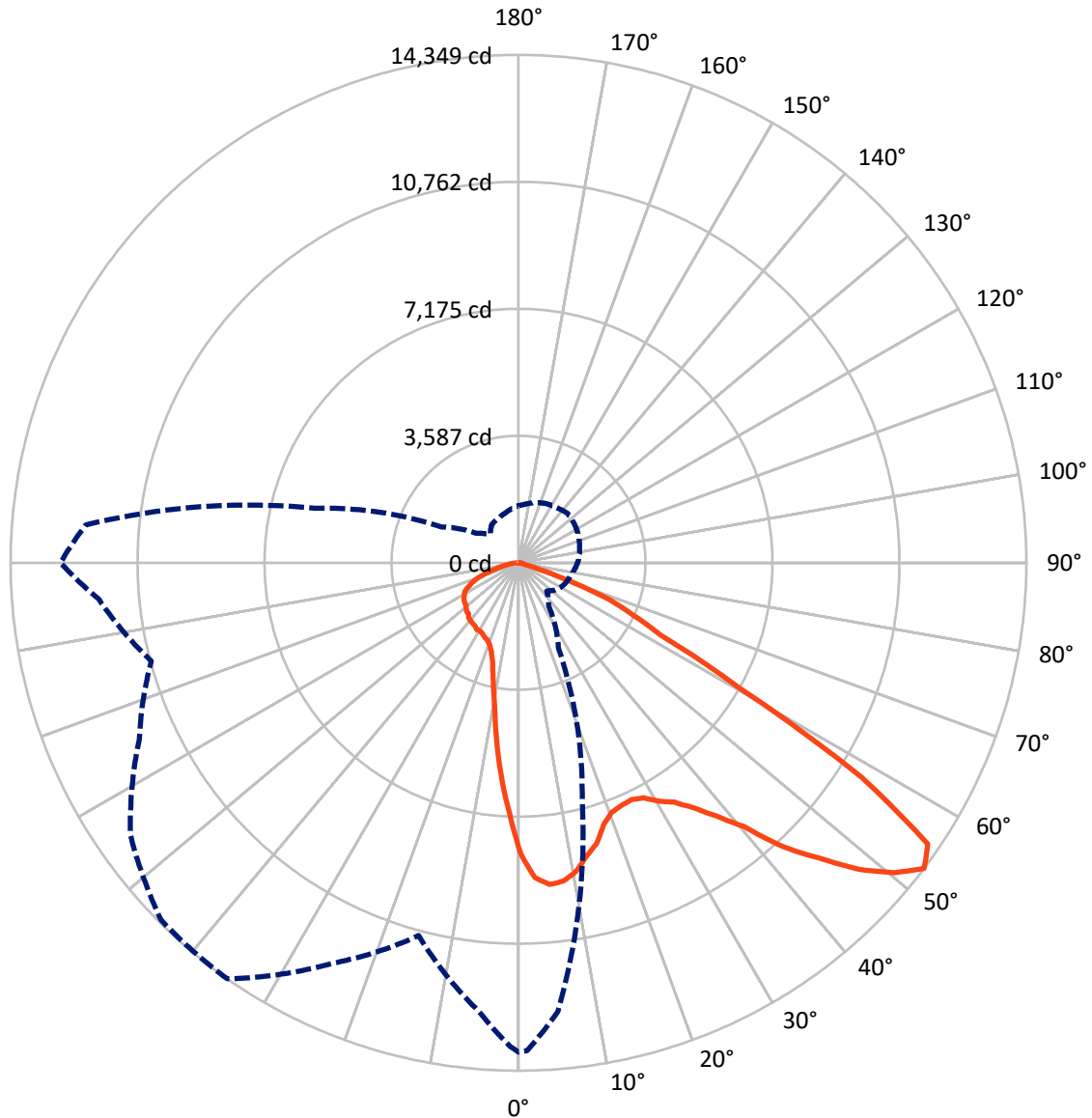
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 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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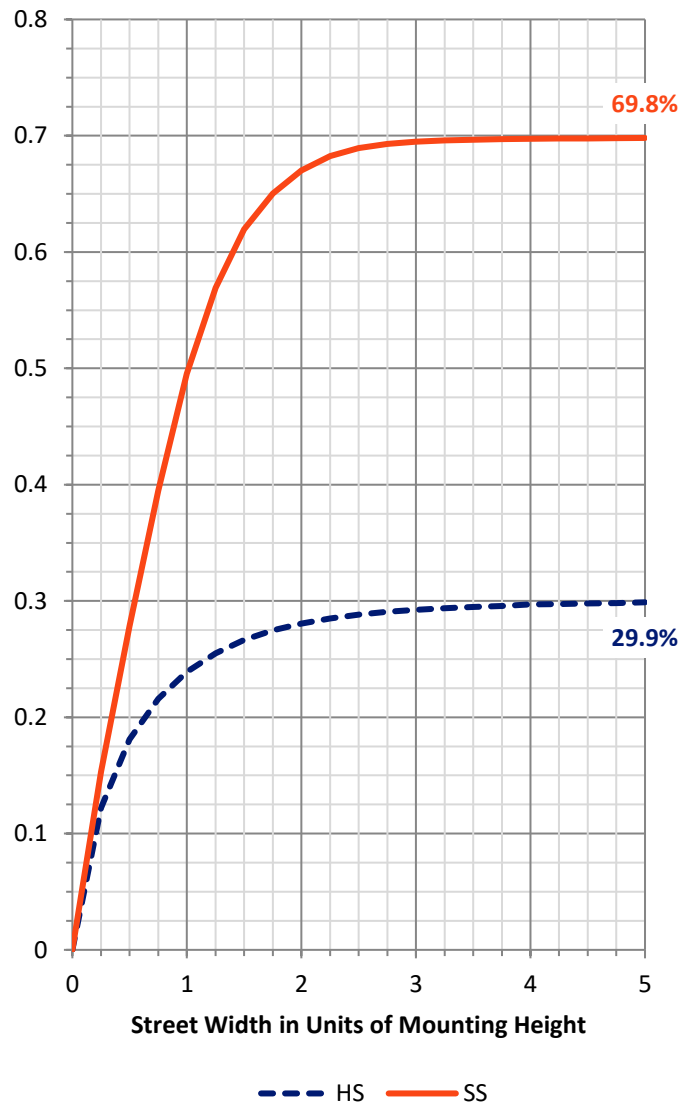
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5599.4	0.0	5599.4
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	12975.0	0.0	12975.0
	% Fixture	69.9	0.0	69.9
Total	Lumens	18574.4	0.0	18574.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	628.9	3.4
10°-20°	1363.4	7.3
20°-30°	2059.9	11.1
30°-40°	2976.7	16.0
40°-50°	3961.4	21.3
50°-60°	4431.0	23.9
60°-70°	2497.3	13.4
70°-80°	556.7	3.0
80°-90°	99.1	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°	18574.4	100.0
0°-180°	18574.4	100.0

Coefficient of Utilization



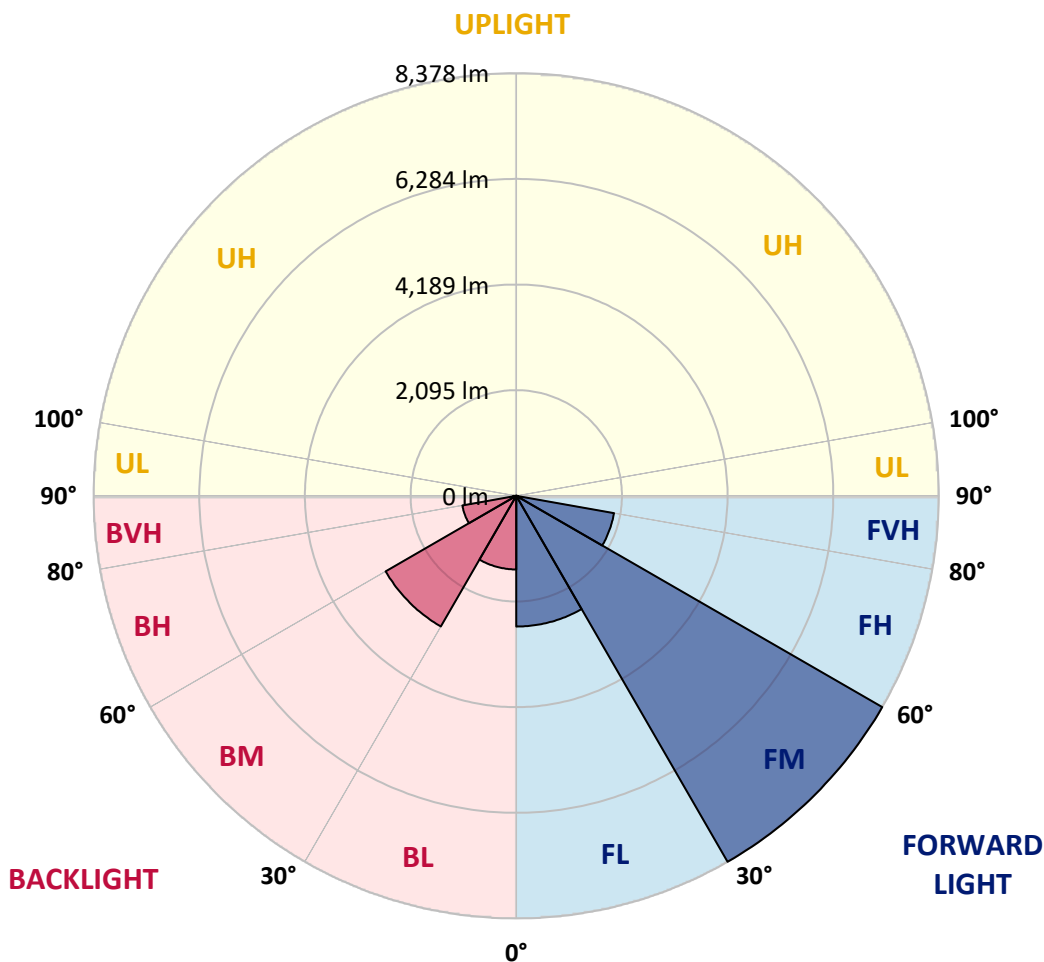
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2592.0	14.0			
FM (30°-60°)	8378.4	45.1			
FH (60°-80°)	1968.6	10.6			G2/5000
FVH (80°-90°)	35.9	0.2			G1/100
BL (0°-30°)	1460.2	7.9	B3/2500		
BM (30°-60°)	2990.6	16.1	B3/5000		
BH (60°-80°)	1085.3	5.8	B3/2500		G3/2500
BVH (80°-90°)	63.2	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°	8243.4	8243.4	8243.4	8243.4	8243.4	8243.4	8243.4	8243.4	8243.4	8243.4	8243.4
2.5°	8380.7	8515.3	8370.0	8111.5	7928.4	7761.5	7586.5	7551.5	7322.7	7282.3	7115.4
5°	7904.2	7874.6	7696.9	7357.7	6983.5	6644.2	6393.9	6151.6	5987.4	5796.2	5782.8
7.5°	7325.4	7153.1	7050.8	6536.6	6073.5	5540.5	5311.6	4942.8	4827.0	4654.8	4565.9
10°	6808.5	6682.0	6442.4	5928.2	5282.0	4929.4	4684.4	4485.2	4350.5	4172.8	3949.4
12.5°	6552.7	6501.6	6232.4	5435.5	4956.2	4579.4	4407.0	4213.2	3984.4	3699.0	3588.6
15°	6598.5	6426.2	6221.6	5341.2	4679.0	4315.5	4040.9	3798.6	3505.2	3233.3	3074.4
17.5°	6940.4	6808.5	6399.3	5400.5	4574.0	4049.0	3551.0	3192.9	2929.0	2684.1	2573.7
20°	7613.4	7422.3	6962.0	5475.8	4347.8	3677.5	3106.8	2665.3	2382.6	2253.3	2215.7
22.5°	8359.2	8246.1	7511.2	5645.4	4167.4	3332.9	2635.7	2194.1	2089.1	2054.1	2124.1
25°	9266.4	8972.9	8364.6	5922.8	4027.4	3039.4	2237.2	1992.2	1938.4	1973.3	2054.1
27.5°	9955.6	9877.5	8962.2	6183.9	3836.3	2686.8	2013.7	1852.2	1868.4	1903.4	1978.7
30°	10774.0	10378.3	9541.0	6364.3	3664.0	2444.4	1857.6	1814.5	1830.7	1889.9	1927.6
32.5°	11266.7	11118.6	9904.5	6636.2	3464.8	2234.5	1736.5	1696.1	1720.3	1809.1	1898.0
35°	11894.0	11600.5	10354.1	6706.2	3324.9	2151.1	1650.3	1620.7	1677.2	1739.1	1838.7
37.5°	12626.3	12424.3	10975.9	6657.7	3249.5	2064.8	1577.6	1564.1	1604.5	1690.7	1806.5
40°	13059.7	12997.7	11301.7	6687.4	3131.0	1989.5	1494.1	1510.3	1593.8	1661.1	1774.1
42.5°	13477.0	13073.1	11783.6	6676.6	3055.6	1887.2	1502.3	1483.4	1548.0	1626.1	1733.7
45°	13568.5	13167.4	11896.7	6601.2	2964.0	1787.6	1440.3	1448.4	1526.5	1623.4	1693.4
47.5°	13509.3	13213.1	12106.7	6579.6	2877.9	1717.6	1348.8	1445.7	1491.5	1569.5	1669.1
50°	13468.9	13452.7	12284.3	6682.0	2762.2	1607.2	1238.4	1410.7	1456.5	1534.5	1642.2
52.5°	13824.3	13789.3	12728.5	6951.2	2670.7	1488.8	1125.3	1321.9	1432.3	1507.6	1612.6
55°	14039.7	13886.2	13490.4	7282.3	2517.2	1332.6	1047.3	1211.5	1373.0	1440.3	1548.0
57.5°	12628.9	12523.9	12203.6	6797.7	2258.7	1128.0	950.3	1098.4	1292.3	1397.3	1507.6
60°	10507.5	10343.3	9522.1	5777.4	1666.5	877.7	891.1	1009.5	1270.7	1311.1	1440.3
62.5°	9907.1	9500.6	8383.4	4649.4	1278.8	753.8	799.6	928.8	1157.7	1224.9	1354.1
65°	7861.1	7559.6	5998.2	3357.1	856.1	654.2	729.6	837.3	998.8	1130.7	1249.2
67.5°	4921.2	4633.2	3201.0	1588.4	597.7	560.0	651.5	764.6	896.5	1014.9	1146.9
70°	2571.0	2256.1	1478.0	573.5	411.9	457.7	543.8	651.5	780.7	877.7	979.9
72.5°	958.4	778.1	481.9	247.7	285.4	350.0	441.5	519.6	611.1	729.6	786.1
75°	148.1	126.5	123.9	150.7	193.9	253.1	315.0	393.1	473.8	549.2	586.9
77.5°	70.0	67.3	75.4	99.6	129.2	180.4	228.9	304.2	368.8	417.3	438.8
80°	45.8	43.1	48.5	67.3	96.9	134.6	183.1	234.2	293.5	333.8	328.5
82.5°	26.9	29.6	29.6	45.8	67.3	96.9	131.9	177.7	218.1	253.1	231.5
85°	16.1	13.5	13.5	26.9	45.8	78.1	110.4	75.4	78.1	78.1	88.9
87.5°	5.4	5.4	5.4	2.7	5.4	5.4	8.1	13.5	16.1	18.9	24.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8243.4	8243.4	8243.4	8243.4	8243.4	8243.4	8243.4	8243.4	8243.4	8243.4	8243.4
2.5°	7110.0	7193.4	7163.8	7058.8	7139.6	7153.1	7099.2	7285.0	7320.0	7263.4	7279.6
5°	5763.9	5785.4	5833.9	5936.2	6008.9	6095.0	6095.0	6100.4	6027.8	6210.8	6157.0
7.5°	4490.5	4504.0	4560.5	4778.6	4840.5	5004.7	5074.7	5026.2	4880.9	4819.0	4870.1
10°	3876.7	3798.6	3779.8	3806.7	3946.7	4016.7	4075.9	4059.8	4035.6	3987.1	3933.2
12.5°	3467.5	3411.0	3365.2	3300.6	3308.6	3376.0	3421.7	3384.0	3394.9	3405.6	3421.7
15°	3023.3	2982.9	2958.7	2861.8	2851.0	2896.8	2912.9	2934.4	2974.9	2977.5	2958.7
17.5°	2552.2	2517.2	2571.0	2624.9	2587.2	2589.9	2619.4	2638.3	2627.5	2579.1	2554.9
20°	2229.1	2266.8	2320.7	2371.8	2412.2	2436.4	2447.2	2417.6	2382.6	2282.9	2280.3
22.5°	2134.8	2183.3	2229.1	2307.2	2344.9	2406.8	2350.3	2282.9	2234.5	2186.1	2129.5
25°	2064.8	2105.3	2196.8	2226.4	2299.1	2350.3	2309.8	2242.6	2159.1	2089.1	2046.1
27.5°	2013.7	2059.5	2118.7	2199.5	2256.1	2285.7	2245.3	2218.3	2132.2	2048.7	1986.8
30°	1981.5	2029.9	2137.6	2204.8	2253.3	2277.6	2207.6	2175.3	2113.3	2043.3	1989.5
32.5°	1959.9	2003.0	2094.5	2180.7	2213.0	2213.0	2223.7	2186.1	2099.8	1981.5	1935.7
35°	1889.9	1949.1	2024.5	2124.1	2183.3	2218.3	2164.5	2121.5	2064.8	1943.7	1860.3
37.5°	1849.5	1889.9	1986.8	2081.1	2132.2	2169.8	2148.3	2073.0	1997.6	1898.0	1830.7
40°	1806.5	1871.1	1957.2	2046.1	2102.6	2140.3	2124.1	2035.3	1943.7	1849.5	1803.7
42.5°	1776.9	1819.9	1908.7	2008.3	2075.7	2148.3	2099.8	1989.5	1924.9	1795.7	1744.5
45°	1752.6	1822.6	1916.8	1957.2	2027.2	2102.6	2016.5	1949.1	1873.7	1779.5	1736.5
47.5°	1723.0	1787.6	1849.5	1957.2	1989.5	2024.5	2008.3	1900.7	1836.1	1733.7	1704.1
50°	1712.2	1736.5	1849.5	1908.7	1954.5	1989.5	1946.5	1865.7	1803.7	1698.7	1634.1
52.5°	1669.1	1714.9	1787.6	1865.7	1922.2	1965.3	1895.3	1844.1	1760.7	1650.3	1609.9
55°	1615.3	1642.2	1771.5	1852.2	1881.8	1911.5	1884.5	1801.1	1714.9	1601.9	1561.5
57.5°	1545.3	1607.2	1712.2	1825.3	1863.0	1879.1	1836.1	1768.7	1661.1	1561.5	1496.9
60°	1472.6	1537.2	1653.0	1744.5	1782.2	1841.5	1776.9	1736.5	1612.6	1502.3	1432.3
62.5°	1399.9	1472.6	1558.8	1674.5	1706.9	1731.1	1714.9	1658.4	1558.8	1434.9	1348.8
65°	1313.8	1367.6	1475.3	1534.5	1556.1	1612.6	1556.1	1534.5	1445.7	1327.3	1254.5
67.5°	1184.5	1230.3	1324.5	1381.1	1397.3	1421.5	1418.8	1394.5	1294.9	1214.2	1149.5
70°	1036.5	1076.9	1136.1	1203.4	1211.5	1241.1	1214.2	1208.8	1144.2	1033.8	998.8
72.5°	831.9	869.6	947.7	977.3	979.9	990.7	977.3	958.4	942.3	826.5	791.5
75°	638.1	659.6	697.3	724.2	724.2	737.7	729.6	710.7	667.7	595.0	560.0
77.5°	444.2	465.7	514.2	530.3	527.7	533.1	508.8	490.0	425.3	387.7	358.1
80°	323.1	336.5	360.7	371.5	374.2	382.3	352.7	336.5	298.8	255.7	242.3
82.5°	234.2	242.3	245.0	258.5	258.5	245.0	236.9	220.7	193.9	166.9	156.1
85°	96.9	99.6	102.3	118.5	121.1	145.4	134.6	126.5	110.4	94.2	86.1
87.5°	24.2	26.9	35.0	29.6	35.0	35.0	37.7	43.1	43.1	35.0	35.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8243.4	8243.4	8243.4	8243.4	8243.4	8243.4	8243.4	8243.4	8243.4	8243.4	8243.4
2.5°	7341.6	7363.1	7637.7	7672.7	7807.3	7944.6	8221.9	8421.1	8582.6	8687.6	8717.2
5°	6213.5	6350.8	6477.4	6682.0	6867.7	7131.6	7435.8	7812.6	8286.5	8528.7	8625.7
7.5°	4864.7	5026.2	5209.3	5408.6	5680.4	6154.3	6560.8	6997.0	7602.7	7853.0	8232.6
10°	3970.9	4151.3	4393.6	4547.0	4875.5	5327.8	5801.6	6305.0	6883.8	7244.6	7683.4
12.5°	3510.6	3658.6	3882.1	4205.2	4450.2	4743.6	5096.2	5731.6	6560.8	6902.7	7204.2
15°	3001.8	3166.0	3424.5	3782.5	4075.9	4425.9	4821.6	5513.6	6396.6	6924.2	7180.0
17.5°	2581.8	2700.3	2972.1	3281.7	3618.2	4000.6	4568.6	5502.8	6568.9	7244.6	7661.9
20°	2291.1	2307.2	2455.3	2719.0	3176.8	3674.8	4412.4	5448.9	7120.8	7796.5	8324.2
22.5°	2108.0	2091.8	2094.5	2317.9	2638.3	3354.5	4167.4	5632.0	7748.0	8674.2	9029.5
25°	2016.5	1973.3	1946.5	1994.9	2285.7	2974.9	3981.7	5874.3	8423.7	9398.3	9834.5
27.5°	1968.0	1892.6	1838.7	1846.9	2059.5	2783.7	3865.9	5979.3	9094.2	10407.9	10561.3
30°	1949.1	1854.9	1776.9	1749.9	1889.9	2517.2	3618.2	6159.7	9694.5	10962.5	11094.4
32.5°	1881.8	1766.1	1690.7	1666.5	1723.0	2282.9	3440.6	6288.9	10224.8	11565.5	11519.7
35°	1803.7	1706.9	1612.6	1566.9	1607.2	2132.2	3297.9	6227.0	10849.4	12033.9	12009.7
37.5°	1795.7	1669.1	1591.1	1515.7	1513.0	1946.5	3104.0	6286.2	11247.9	12873.9	12542.8
40°	1725.7	1644.9	1542.6	1480.7	1445.7	1852.2	2915.6	6146.2	11832.1	13213.1	12887.4
42.5°	1728.4	1607.2	1518.4	1445.7	1410.7	1714.9	2786.4	6108.5	12036.7	13765.1	13048.9
45°	1685.3	1566.9	1491.5	1405.3	1386.5	1609.9	2662.5	5933.5	12397.4	13791.9	12847.0
47.5°	1642.2	1537.2	1456.5	1354.1	1311.1	1572.2	2565.7	5788.2	12208.9	13538.9	12567.0
50°	1612.6	1491.5	1416.1	1343.4	1222.3	1507.6	2439.1	5753.2	11945.1	13197.0	12047.4
52.5°	1561.5	1453.8	1375.7	1319.2	1125.3	1448.4	2390.7	5957.8	12268.2	12941.2	11896.7
55°	1513.0	1402.6	1303.0	1192.7	1044.5	1292.3	2256.1	6148.9	12739.3	13530.8	12580.5
57.5°	1461.9	1356.9	1249.2	1117.3	966.5	1130.7	2116.1	6183.9	11856.3	12505.1	11942.4
60°	1394.5	1259.9	1179.2	1006.9	883.1	936.9	1677.2	5451.6	9196.4	10442.9	10461.7
62.5°	1319.2	1173.8	1103.8	901.9	796.9	807.7	1367.6	4582.0	7460.0	8644.6	9158.8
65°	1219.5	1079.5	996.1	834.6	734.9	699.9	1001.5	3357.1	5667.0	7013.1	7597.3
67.5°	1090.3	958.4	853.4	726.9	656.9	600.3	683.8	1889.9	3346.4	4708.6	4886.3
70°	953.0	839.9	729.6	624.6	546.5	506.1	500.7	837.3	1599.1	2533.3	2883.3
72.5°	751.1	670.3	581.5	503.5	452.3	393.1	358.1	347.3	541.1	1031.1	1424.1
75°	538.5	471.1	420.0	368.8	331.1	298.8	271.9	247.7	226.1	258.5	355.4
77.5°	339.2	315.0	274.6	261.1	239.6	231.5	220.7	207.3	191.1	180.4	180.4
80°	228.9	212.7	199.2	196.5	188.5	185.7	188.5	175.0	158.9	145.4	150.7
82.5°	153.5	150.7	148.1	145.4	148.1	150.7	156.1	153.5	140.0	131.9	134.6
85°	91.5	96.9	102.3	107.7	118.5	105.0	86.1	72.7	64.6	59.2	56.5
87.5°	35.0	48.5	43.1	40.4	43.1	40.4	37.7	35.0	29.6	26.9	26.9
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8243.4	8243.4	8243.4	8243.4	8243.4	8243.4	8243.4	8243.4	8243.4	8243.4
2.5°	8913.8	8967.6	9013.3	9002.6	8908.3	8781.8	8730.7	8469.6	8415.7	8380.7
5°	9034.9	9347.2	9414.5	9374.1	9129.2	8819.6	8518.0	8135.7	7912.3	7904.2
7.5°	8811.4	9196.4	9317.5	9409.1	9083.3	8545.0	8028.0	7454.6	7314.6	7325.4
10°	8243.4	8857.2	9156.0	9250.3	8876.1	8410.3	7694.2	7112.7	6813.9	6808.5
12.5°	7928.4	8410.3	8493.7	8625.7	8515.3	8044.2	7500.4	6848.8	6558.1	6552.7
15°	7648.4	7966.1	7990.4	8176.1	8235.4	7917.6	7551.5	6857.0	6622.7	6598.5
17.5°	7893.4	7672.7	7581.2	7605.4	7780.4	7896.1	7847.6	7314.6	7075.0	6940.4
20°	8057.6	7565.0	7287.7	7314.6	7521.9	7944.6	8289.2	7976.9	7597.3	7613.4
22.5°	8496.5	7581.2	7147.7	7118.1	7446.5	8197.6	8787.2	8814.2	8448.0	8359.2
25°	9153.3	7766.9	7104.6	7096.6	7411.5	8469.6	9368.8	9804.9	9430.6	9266.4
27.5°	9681.0	8057.6	7239.2	7266.2	7521.9	8690.3	9864.1	10442.9	10157.5	9955.6
30°	10144.1	8359.2	7427.7	7303.8	7818.0	8806.1	10076.7	11169.8	10940.9	10774.0
32.5°	10335.2	8787.2	7726.5	7521.9	8063.0	8946.1	10518.3	11875.1	11678.6	11266.7
35°	10658.3	9026.8	7888.0	7871.9	8491.1	9282.5	10725.6	12340.9	12260.1	11894.0
37.5°	10916.7	9269.1	8461.5	8283.7	9077.9	9847.9	11059.4	12984.3	12798.5	12626.3
40°	11115.9	9702.5	8997.2	9231.4	9799.5	10362.1	11366.3	13024.7	13560.4	13059.7
42.5°	10932.9	10090.2	9877.5	10437.5	10975.9	10949.0	11401.3	13337.0	13738.1	13477.0
45°	10887.1	10747.1	11269.4	11778.2	11902.1	11436.3	11150.9	12992.4	13684.3	13568.5
47.5°	10776.7	11393.2	12303.2	13132.4	12943.9	11762.1	10852.1	12930.5	13716.6	13509.3
50°	10739.0	11533.2	13067.7	13875.4	13762.3	12044.7	10712.1	12532.0	13487.7	13468.9
52.5°	10736.3	11821.3	13385.5	14279.3	14349.3	12491.7	10903.3	12733.9	13665.4	13824.3
55°	10857.5	11729.7	13345.1	14055.8	14028.9	12292.4	10924.8	12868.5	13883.5	14039.7
57.5°	10241.0	10507.5	11013.6	11576.3	11430.9	10181.7	9756.4	11896.7	12742.0	12628.9
60°	8843.8	8009.2	7438.4	7411.5	7128.8	6738.5	7985.0	10617.9	10617.9	10507.5
62.5°	7745.4	5257.8	4517.4	4307.4	4509.4	4959.0	7702.3	10327.1	10033.7	9907.1
65°	6773.5	4014.0	3265.6	3206.4	3556.3	4234.8	6964.6	8798.0	8281.1	7861.1
67.5°	4358.6	2939.9	2428.3	2323.3	2746.0	3109.4	4635.9	5411.2	5085.5	4921.2
70°	2810.6	1914.1	1351.5	1268.0	1432.3	1916.8	2961.4	3155.2	2681.4	2571.0
72.5°	1329.9	826.5	473.8	390.3	438.8	732.3	1171.1	1259.9	1047.3	958.4
75°	422.7	304.2	193.9	166.9	158.9	188.5	269.2	207.3	150.7	148.1
77.5°	188.5	180.4	153.5	129.2	113.1	94.2	78.1	64.6	67.3	70.0
80°	156.1	142.7	126.5	113.1	94.2	72.7	56.5	43.1	43.1	45.8
82.5°	137.3	123.9	110.4	94.2	80.7	59.2	43.1	29.6	26.9	26.9
85°	59.2	70.0	75.4	80.7	64.6	48.5	29.6	18.9	16.1	16.1
87.5°	24.2	21.5	18.9	16.1	13.5	13.5	10.8	8.1	5.4	5.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)