

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: P647394

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647394
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-SA4D-835-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1200mA 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: 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 III - Short
BUG Rating: B3 - U0 - G3

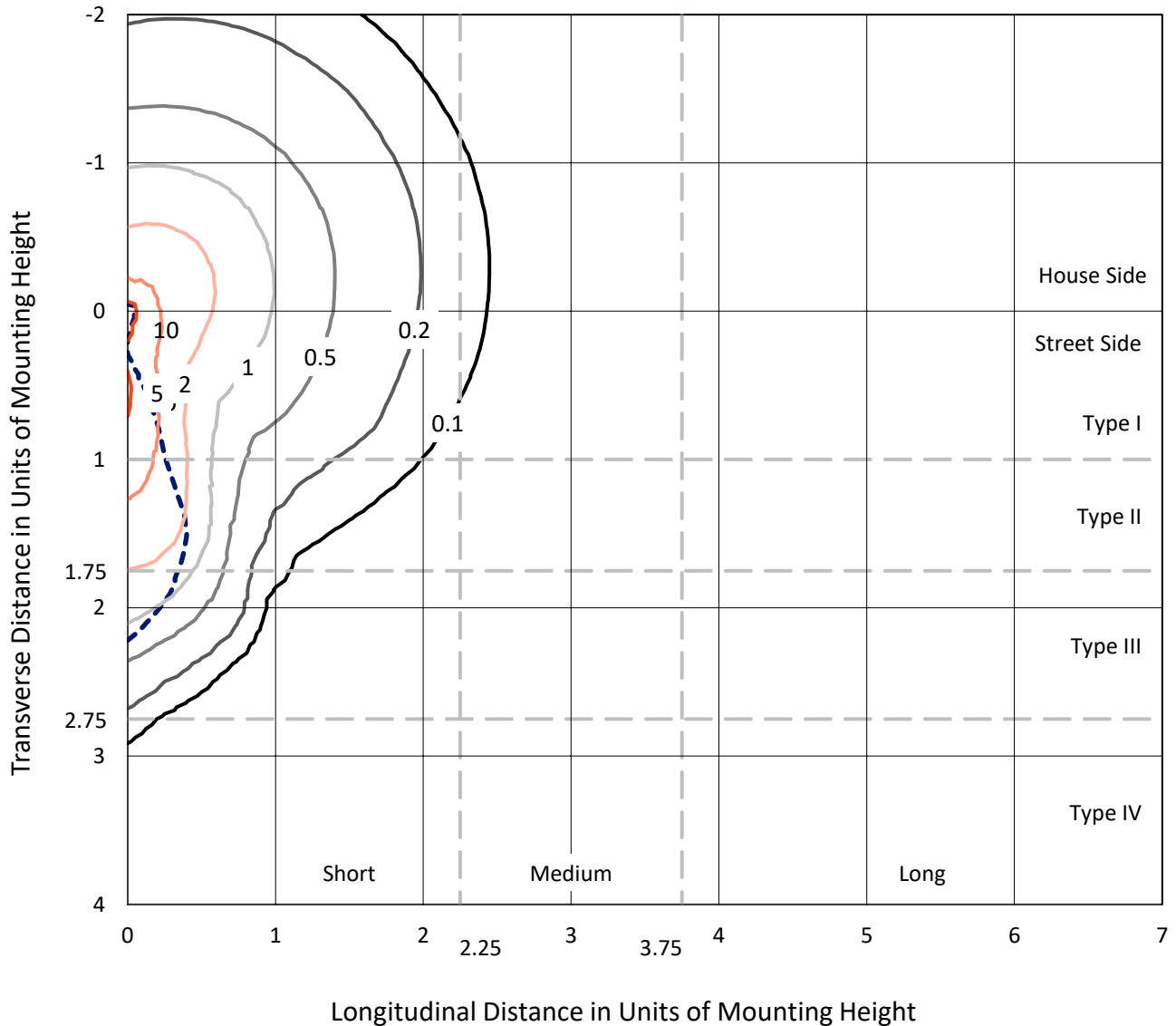
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

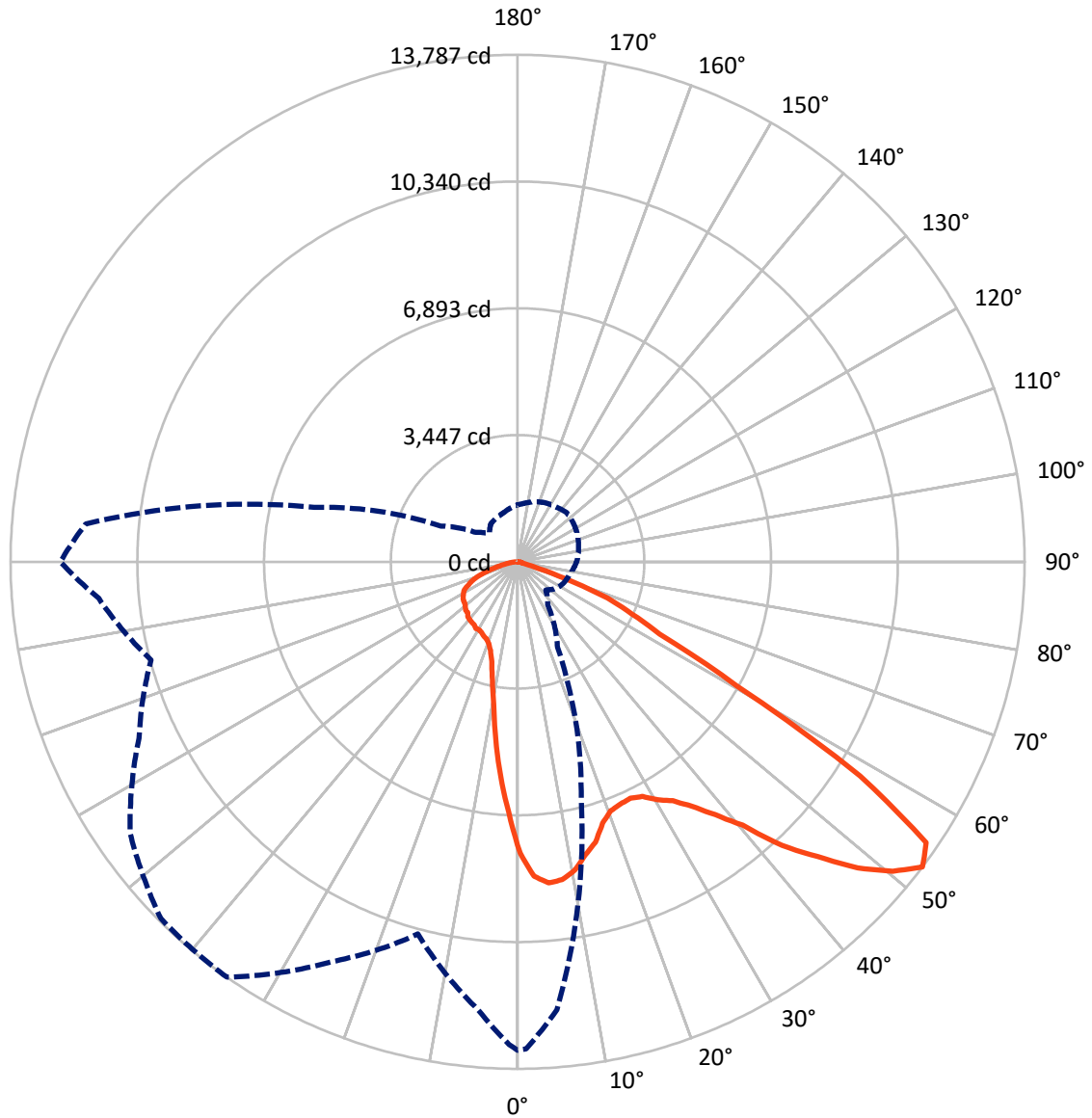
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 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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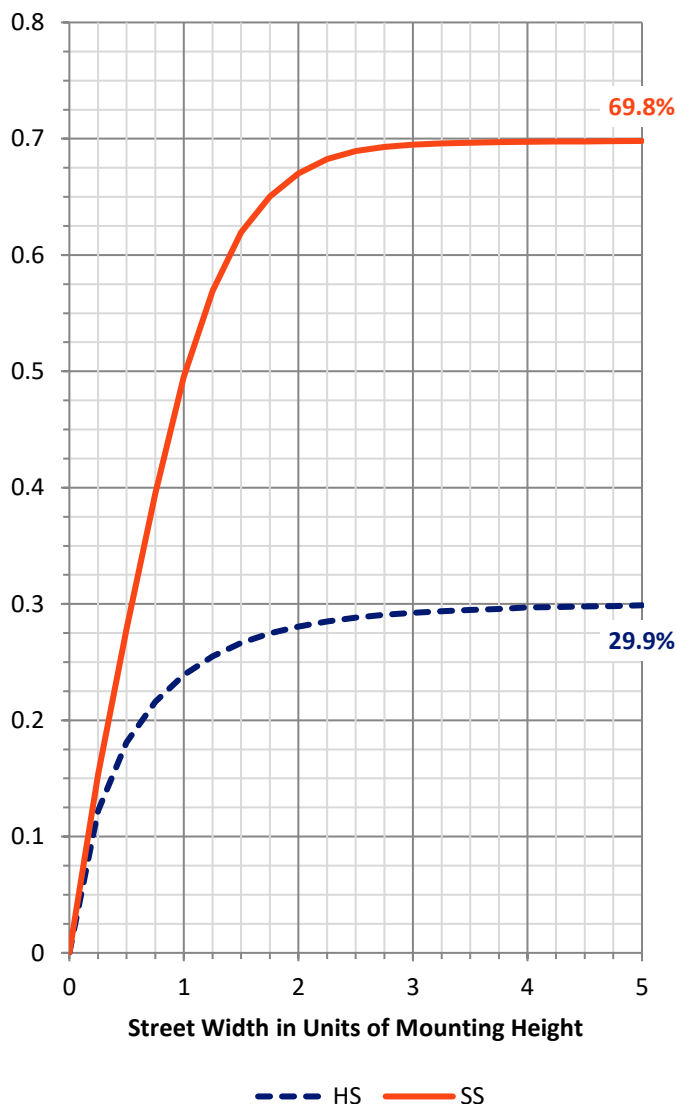
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5379.9	0.0	5379.9
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	12466.3	0.0	12466.3
	% Fixture	69.9	0.0	69.9
Total	Lumens	17846.1	0.0	17846.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	604.2	3.4
10°-20°	1309.9	7.3
20°-30°	1979.2	11.1
30°-40°	2860.0	16.0
40°-50°	3806.1	21.3
50°-60°	4257.2	23.9
60°-70°	2399.4	13.4
70°-80°	534.9	3.0
80°-90°	95.2	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



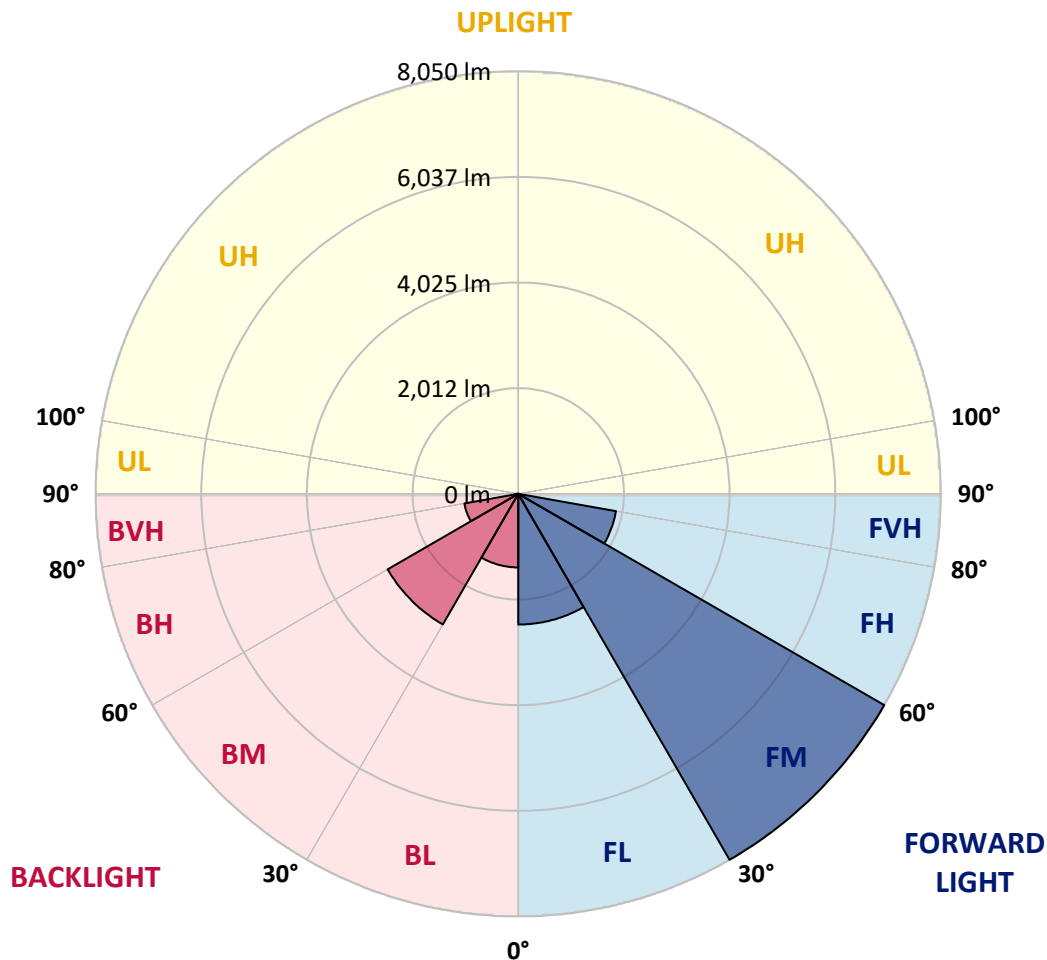
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2490.4	14.0			
FM (30°-60°)	8050.0	45.1			
FH (60°-80°)	1891.4	10.6			G2/5000
FVH (80°-90°)	34.5	0.2			G1/100
BL (0°-30°)	1402.9	7.9	B3/2500		
BM (30°-60°)	2873.4	16.1	B3/5000		
BH (60°-80°)	1042.8	5.8	B3/2500		G3/2500
BVH (80°-90°)	60.8	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°	7920.2	7920.2	7920.2	7920.2	7920.2	7920.2	7920.2	7920.2	7920.2	7920.2	7920.2
2.5°	8052.1	8181.5	8041.8	7793.5	7617.6	7457.2	7289.1	7255.4	7035.6	6996.8	6836.5
5°	7594.3	7565.9	7395.1	7069.2	6709.7	6383.8	6143.2	5910.4	5752.6	5569.0	5556.1
7.5°	7038.2	6872.6	6774.4	6280.3	5835.4	5323.2	5103.4	4749.1	4637.8	4472.3	4386.9
10°	6541.6	6420.0	6189.8	5695.7	5074.9	4736.1	4500.7	4309.3	4180.0	4009.3	3794.6
12.5°	6295.8	6246.7	5988.0	5222.4	4762.0	4399.8	4234.3	4048.0	3828.2	3554.0	3447.9
15°	6339.8	6174.3	5977.7	5131.9	4495.5	4146.4	3882.5	3649.7	3367.8	3106.6	2953.9
17.5°	6668.3	6541.6	6148.4	5188.8	4394.7	3890.3	3411.8	3067.7	2814.3	2578.9	2472.8
20°	7314.9	7131.3	6689.0	5261.2	4177.4	3533.3	2985.0	2560.7	2289.2	2165.0	2128.8
22.5°	8031.5	7922.8	7216.7	5424.2	4004.1	3202.2	2532.3	2108.1	2007.2	1973.6	2040.8
25°	8903.1	8621.2	8036.6	5690.5	3869.6	2920.3	2149.5	1914.1	1862.4	1896.0	1973.6
27.5°	9565.3	9490.3	8610.9	5941.5	3685.9	2581.5	1934.8	1779.6	1795.1	1828.8	1901.2
30°	10351.7	9971.4	9167.0	6114.8	3520.4	2348.7	1784.8	1743.3	1758.9	1815.8	1852.0
32.5°	10825.0	10682.7	9516.2	6376.0	3329.0	2146.9	1668.3	1629.6	1652.8	1738.2	1823.5
35°	11427.7	11145.8	9948.2	6443.2	3194.5	2066.7	1585.6	1557.2	1611.5	1670.9	1766.7
37.5°	12131.3	11937.2	10545.7	6396.7	3122.1	1984.0	1515.7	1502.8	1541.6	1624.4	1735.6
40°	12547.7	12488.2	10858.6	6425.1	3008.2	1911.5	1435.6	1451.1	1531.3	1595.9	1704.6
42.5°	12948.6	12560.7	11321.6	6414.8	2935.8	1813.2	1443.3	1425.2	1487.3	1562.3	1665.8
45°	13036.6	12651.2	11430.2	6342.4	2847.8	1717.5	1383.9	1391.6	1466.6	1559.7	1627.0
47.5°	12979.6	12695.1	11632.0	6321.7	2765.1	1650.3	1295.9	1389.0	1433.0	1508.0	1603.7
50°	12940.9	12925.3	11802.7	6420.0	2653.9	1544.2	1189.8	1355.4	1399.4	1474.4	1577.8
52.5°	13282.3	13248.7	12229.5	6678.7	2565.9	1430.4	1081.2	1270.0	1376.0	1448.5	1549.4
55°	13489.2	13341.8	12961.5	6996.8	2418.5	1280.4	1006.2	1164.0	1319.2	1383.9	1487.3
57.5°	12133.8	12032.9	11725.1	6531.2	2170.2	1083.8	913.1	1055.3	1241.6	1342.5	1448.5
60°	10095.5	9937.8	9148.9	5550.8	1601.1	843.2	856.1	970.0	1220.9	1259.7	1383.9
62.5°	9518.8	9128.2	8054.7	4467.1	1228.6	724.3	768.2	892.4	1112.3	1176.9	1301.0
65°	7552.9	7263.2	5763.0	3225.5	822.5	628.5	700.9	804.5	959.6	1086.4	1200.2
67.5°	4728.3	4451.6	3075.5	1526.1	574.3	538.0	625.9	734.6	861.4	975.1	1101.9
70°	2470.2	2167.6	1420.0	550.9	395.7	439.7	522.5	625.9	750.1	843.2	941.6
72.5°	920.8	747.5	463.0	238.0	274.2	336.3	424.2	499.2	587.2	700.9	755.3
75°	142.3	121.6	119.0	144.9	186.2	243.1	302.6	377.6	455.2	527.7	563.9
77.5°	67.3	64.7	72.4	95.7	124.2	173.3	219.9	292.3	354.4	400.9	421.6
80°	44.0	41.4	46.6	64.7	93.1	129.4	175.9	225.0	282.0	320.7	315.5
82.5°	25.8	28.4	28.4	44.0	64.7	93.1	126.8	170.7	209.5	243.1	222.5
85°	15.5	12.9	12.9	25.8	44.0	75.0	106.0	72.4	75.0	75.0	85.3
87.5°	5.2	5.2	5.2	2.6	5.2	5.2	7.8	12.9	15.5	18.1	23.3
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°	7920.2	7920.2	7920.2	7920.2	7920.2	7920.2	7920.2	7920.2	7920.2	7920.2	7920.2
2.5°	6831.3	6911.5	6883.0	6782.1	6859.7	6872.6	6820.9	6999.4	7033.0	6978.7	6994.2
5°	5537.9	5558.7	5605.2	5703.5	5773.3	5856.1	5856.1	5861.3	5791.5	5967.3	5915.6
7.5°	4314.5	4327.4	4381.7	4591.3	4650.7	4808.6	4875.7	4829.2	4689.5	4630.0	4679.2
10°	3724.7	3649.7	3631.6	3657.5	3792.0	3859.3	3916.2	3900.6	3877.3	3830.7	3779.1
12.5°	3331.6	3277.2	3233.2	3171.2	3179.0	3243.7	3287.6	3251.4	3261.7	3272.1	3287.6
15°	2904.8	2865.9	2842.7	2749.6	2739.2	2783.2	2798.8	2819.4	2858.2	2860.8	2842.7
17.5°	2452.1	2418.5	2470.2	2522.0	2485.7	2488.3	2516.8	2534.9	2524.5	2478.0	2454.7
20°	2141.7	2177.9	2229.7	2278.8	2317.6	2340.9	2351.3	2322.8	2289.2	2193.4	2190.8
22.5°	2051.2	2097.7	2141.7	2216.8	2252.9	2312.4	2258.1	2193.4	2146.9	2100.3	2046.0
25°	1984.0	2022.7	2110.7	2139.2	2209.0	2258.1	2219.3	2154.7	2074.5	2007.2	1965.8
27.5°	1934.8	1978.8	2035.6	2113.2	2167.6	2196.0	2157.2	2131.4	2048.6	1968.4	1909.0
30°	1903.8	1950.3	2053.8	2118.4	2165.0	2188.3	2121.0	2090.0	2030.5	1963.2	1911.5
32.5°	1883.0	1924.5	2012.4	2095.2	2126.2	2126.2	2136.6	2100.3	2017.6	1903.8	1859.8
35°	1815.8	1872.7	1945.1	2040.8	2097.7	2131.4	2079.6	2038.2	1984.0	1867.5	1787.4
37.5°	1777.0	1815.8	1909.0	1999.5	2048.6	2084.8	2064.1	1991.7	1919.3	1823.5	1758.9
40°	1735.6	1797.7	1880.5	1965.8	2020.1	2056.4	2040.8	1955.5	1867.5	1777.0	1733.0
42.5°	1707.2	1748.5	1833.9	1929.6	1994.3	2064.1	2017.6	1911.5	1849.4	1725.3	1676.1
45°	1683.9	1751.2	1841.7	1880.5	1947.7	2020.1	1937.4	1872.7	1800.3	1709.8	1668.3
47.5°	1655.4	1717.5	1777.0	1880.5	1911.5	1945.1	1929.6	1826.2	1764.1	1665.8	1637.3
50°	1645.1	1668.3	1777.0	1833.9	1877.9	1911.5	1870.1	1792.5	1733.0	1632.2	1570.1
52.5°	1603.7	1647.7	1717.5	1792.5	1846.9	1888.2	1820.9	1771.9	1691.7	1585.6	1546.8
55°	1552.0	1577.8	1702.0	1779.6	1808.0	1836.5	1810.6	1730.4	1647.7	1539.1	1500.2
57.5°	1484.7	1544.2	1645.1	1753.8	1789.9	1805.4	1764.1	1699.4	1595.9	1500.2	1438.1
60°	1414.9	1477.0	1588.2	1676.1	1712.3	1769.3	1707.2	1668.3	1549.4	1443.3	1376.0
62.5°	1345.0	1414.9	1497.6	1608.9	1639.9	1663.2	1647.7	1593.3	1497.6	1378.7	1295.9
65°	1262.3	1314.0	1417.5	1474.4	1495.1	1549.4	1495.1	1474.4	1389.0	1275.2	1205.4
67.5°	1138.1	1182.1	1272.6	1327.0	1342.5	1365.7	1363.1	1339.9	1244.2	1166.6	1104.5
70°	995.8	1034.7	1091.6	1156.3	1164.0	1192.4	1166.6	1161.4	1099.3	993.2	959.6
72.5°	799.3	835.5	910.5	939.0	941.6	951.9	939.0	920.8	905.3	794.1	760.4
75°	613.0	633.8	669.9	695.8	695.8	708.8	700.9	682.9	641.5	571.7	538.0
77.5°	426.8	447.5	494.1	509.6	507.0	512.2	488.9	470.7	408.6	372.5	344.1
80°	310.4	323.3	346.6	357.0	359.6	367.3	338.9	323.3	287.1	245.7	232.8
82.5°	225.0	232.8	235.4	248.3	248.3	235.4	227.6	212.1	186.2	160.4	150.0
85°	93.1	95.7	98.3	113.8	116.4	139.7	129.4	121.6	106.0	90.5	82.8
87.5°	23.3	25.8	33.6	28.4	33.6	33.6	36.2	41.4	41.4	33.6	33.6
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°	7920.2	7920.2	7920.2	7920.2	7920.2	7920.2	7920.2	7920.2	7920.2	7920.2	7920.2
2.5°	7053.7	7074.4	7338.2	7371.9	7501.2	7633.1	7899.5	8091.0	8246.2	8347.0	8375.4
5°	5969.9	6101.8	6223.4	6420.0	6598.5	6852.0	7144.2	7506.4	7961.6	8194.4	8287.5
7.5°	4674.0	4829.2	5005.1	5196.5	5457.7	5913.0	6303.6	6722.6	7304.6	7545.1	7909.9
10°	3815.2	3988.6	4221.4	4368.8	4684.4	5118.9	5574.2	6057.8	6614.0	6960.6	7382.2
12.5°	3372.9	3515.2	3729.9	4040.3	4275.6	4557.6	4896.5	5506.9	6303.6	6632.1	6921.8
15°	2884.1	3041.9	3290.2	3634.2	3916.2	4252.4	4632.6	5297.4	6145.8	6652.8	6898.5
17.5°	2480.5	2594.4	2855.6	3153.1	3476.4	3843.7	4389.5	5287.1	6311.4	6960.6	7361.5
20°	2201.2	2216.8	2359.0	2612.5	3052.2	3530.7	4239.5	5235.3	6841.6	7490.9	7997.8
22.5°	2025.3	2009.8	2012.4	2227.1	2534.9	3222.9	4004.1	5411.2	7444.3	8334.1	8675.5
25°	1937.4	1896.0	1870.1	1916.7	2196.0	2858.2	3825.6	5644.0	8093.6	9029.9	9448.9
27.5°	1890.8	1818.4	1766.7	1774.4	1978.8	2674.6	3714.4	5744.9	8737.6	9999.8	10147.3
30°	1872.7	1782.2	1707.2	1681.3	1815.8	2418.5	3476.4	5918.1	9314.4	10532.7	10659.4
32.5°	1808.0	1696.8	1624.4	1601.1	1655.4	2193.4	3305.7	6042.3	9824.0	11112.1	11068.2
35°	1733.0	1639.9	1549.4	1505.4	1544.2	2048.6	3168.6	5982.8	10424.1	11562.2	11538.9
37.5°	1725.3	1603.7	1528.7	1456.3	1453.7	1870.1	2982.4	6039.7	10806.9	12369.2	12051.1
40°	1658.0	1580.4	1482.1	1422.6	1389.0	1779.6	2801.3	5905.2	11368.2	12695.1	12382.1
42.5°	1660.6	1544.2	1458.9	1389.0	1355.4	1647.7	2677.2	5869.1	11564.8	13225.3	12537.3
45°	1619.2	1505.4	1433.0	1350.2	1332.1	1546.8	2558.1	5700.9	11911.4	13251.3	12343.4
47.5°	1577.8	1477.0	1399.4	1301.0	1259.7	1510.6	2465.0	5561.3	11730.3	13008.1	12074.3
50°	1549.4	1433.0	1360.5	1290.7	1174.3	1448.5	2343.4	5527.6	11476.8	12679.6	11575.1
52.5°	1500.2	1396.8	1321.8	1267.4	1081.2	1391.6	2296.9	5724.2	11787.2	12433.9	11430.2
55°	1453.7	1347.6	1251.9	1145.8	1003.6	1241.6	2167.6	5907.8	12239.9	13000.3	12087.2
57.5°	1404.5	1303.6	1200.2	1073.4	928.6	1086.4	2033.1	5941.5	11391.5	12014.8	11474.2
60°	1339.9	1210.5	1132.9	967.4	848.4	900.1	1611.5	5237.9	8835.9	10033.5	10051.6
62.5°	1267.4	1127.8	1060.5	866.5	765.6	776.0	1314.0	4402.4	7167.5	8305.6	8799.7
65°	1171.8	1037.2	957.1	801.9	706.1	672.5	962.2	3225.5	5444.8	6738.1	7299.4
67.5°	1047.6	920.8	820.0	698.4	631.1	576.8	657.0	1815.8	3215.2	4524.0	4694.7
70°	915.6	807.0	700.9	600.1	525.1	486.3	481.1	804.5	1536.5	2434.0	2770.3
72.5°	721.7	644.1	558.7	483.7	434.6	377.6	344.1	333.6	519.9	990.7	1368.3
75°	517.3	452.7	403.5	354.4	318.1	287.1	261.3	238.0	217.3	248.3	341.5
77.5°	325.9	302.6	263.9	250.9	230.2	222.5	212.1	199.2	183.6	173.3	173.3
80°	219.9	204.4	191.4	188.9	181.0	178.4	181.0	168.1	152.6	139.7	144.9
82.5°	147.4	144.9	142.3	139.7	142.3	144.9	150.0	147.4	134.5	126.8	129.4
85°	87.9	93.1	98.3	103.4	113.8	100.9	82.8	69.8	62.1	56.9	54.3
87.5°	33.6	46.6	41.4	38.8	41.4	38.8	36.2	33.6	28.4	25.8	25.8
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7920.2	7920.2	7920.2	7920.2	7920.2	7920.2	7920.2	7920.2	7920.2	7920.2
2.5°	8564.3	8616.1	8660.0	8649.6	8559.1	8437.5	8388.4	8137.5	8085.8	8052.1
5°	8680.7	8980.8	9045.4	9006.6	8771.2	8473.8	8184.1	7816.8	7602.1	7594.3
7.5°	8466.0	8835.9	8952.3	9040.2	8727.2	8209.9	7713.3	7162.3	7027.8	7038.2
10°	7920.2	8510.0	8797.1	8887.6	8528.0	8080.6	7392.5	6833.9	6546.7	6541.6
12.5°	7617.6	8080.6	8160.8	8287.5	8181.5	7728.8	7206.3	6580.3	6301.0	6295.8
15°	7348.6	7653.8	7677.1	7855.5	7912.4	7607.2	7255.4	6588.1	6363.0	6339.8
17.5°	7584.0	7371.9	7283.9	7307.2	7475.3	7586.6	7540.0	7027.8	6797.6	6668.3
20°	7741.8	7268.4	7002.0	7027.8	7227.0	7633.1	7964.2	7664.2	7299.4	7314.9
22.5°	8163.4	7283.9	6867.5	6839.0	7154.6	7876.3	8442.7	8468.6	8116.8	8031.5
25°	8794.5	7462.4	6826.1	6818.4	7121.0	8137.5	9001.4	9420.4	9061.0	8903.1
27.5°	9301.5	7741.8	6955.4	6981.3	7227.0	8349.6	9477.4	10033.5	9759.3	9565.3
30°	9746.4	8031.5	7136.5	7017.5	7511.6	8460.9	9681.7	10731.9	10512.0	10351.7
32.5°	9930.0	8442.7	7423.6	7227.0	7746.9	8595.3	10105.9	11409.6	11220.8	10825.0
35°	10240.4	8672.9	7578.8	7563.3	8158.2	8918.7	10305.1	11857.0	11779.5	11427.7
37.5°	10488.8	8905.8	8129.7	7959.0	8722.1	9461.9	10625.9	12475.2	12296.8	12131.3
40°	10680.1	9322.2	8644.5	8869.5	9415.3	9955.9	10920.7	12514.1	13028.8	12547.7
42.5°	10504.3	9694.6	9490.3	10028.4	10545.7	10519.8	10954.3	12814.1	13199.5	12948.6
45°	10460.3	10325.8	10827.6	11316.5	11435.4	10987.9	10713.8	12483.1	13147.7	13036.6
47.5°	10354.2	10946.6	11820.9	12617.5	12436.5	11301.0	10426.7	12423.5	13178.8	12979.6
50°	10318.0	11081.1	12555.5	13331.4	13222.8	11572.5	10292.1	12040.7	12959.0	12940.9
52.5°	10315.4	11357.8	12860.7	13719.4	13786.7	12001.9	10475.8	12234.7	13129.7	13282.3
55°	10431.8	11269.9	12821.9	13504.7	13478.9	11810.5	10496.5	12364.0	13339.2	13489.2
57.5°	9839.5	10095.5	10581.9	11122.4	10982.7	9782.6	9373.9	11430.2	12242.4	12133.8
60°	8497.0	7695.2	7146.8	7121.0	6849.4	6474.3	7671.9	10201.6	10201.6	10095.5
62.5°	7441.7	5051.7	4340.3	4138.6	4332.6	4764.6	7400.3	9922.3	9640.3	9518.8
65°	6507.9	3856.7	3137.6	3080.6	3416.9	4068.8	6691.6	8453.0	7956.5	7552.9
67.5°	4187.7	2824.6	2333.1	2232.3	2638.3	2987.5	4454.2	5199.1	4886.2	4728.3
70°	2700.4	1839.1	1298.4	1218.3	1376.0	1841.7	2845.3	3031.5	2576.3	2470.2
72.5°	1277.8	794.1	455.2	375.1	421.6	703.5	1125.2	1210.5	1006.2	920.8
75°	406.1	292.3	186.2	160.4	152.6	181.0	258.6	199.2	144.9	142.3
77.5°	181.0	173.3	147.4	124.2	108.6	90.5	75.0	62.1	64.7	67.3
80°	150.0	137.1	121.6	108.6	90.5	69.8	54.3	41.4	41.4	44.0
82.5°	131.9	119.0	106.0	90.5	77.6	56.9	41.4	28.4	25.8	25.8
85°	56.9	67.3	72.4	77.6	62.1	46.6	28.4	18.1	15.5	15.5
87.5°	23.3	20.7	18.1	15.5	12.9	12.9	10.3	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)