

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: P530110

Luminaire Tested: **GALN-SA5B-740-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530110
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-SA5B-740-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 800mA 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: 21223 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

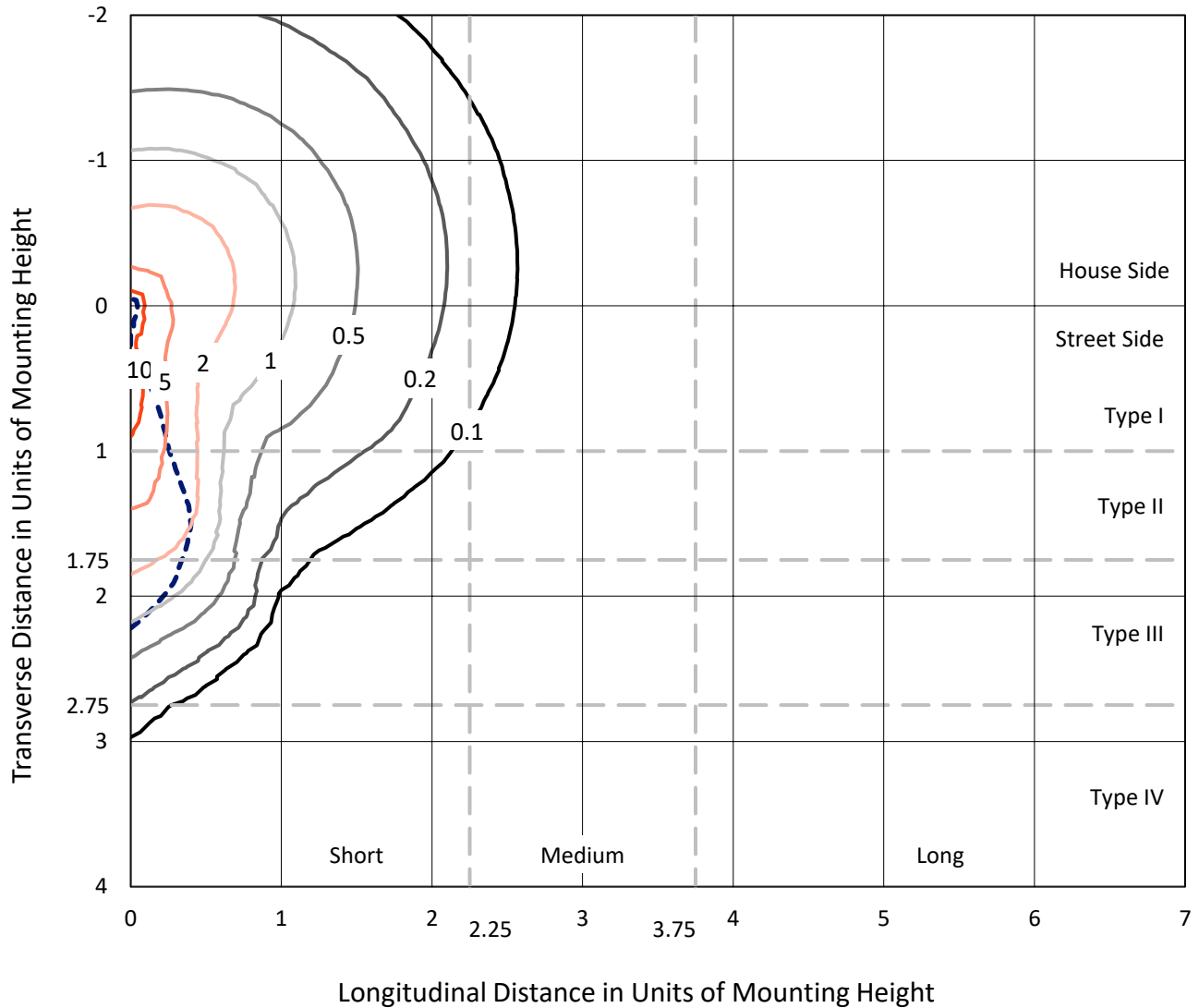
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

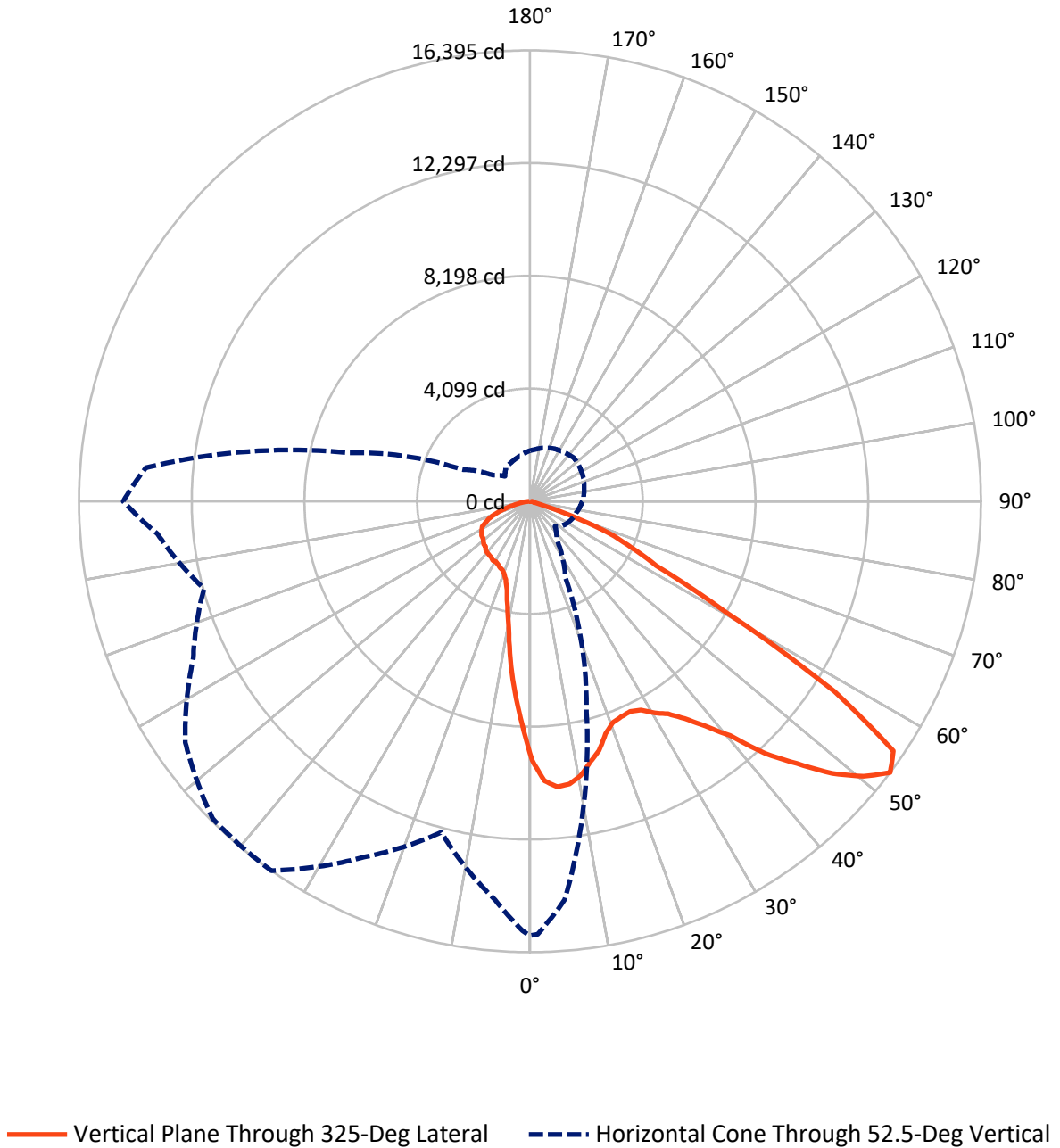
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6397.8	0.0	6397.8
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	14825.2	0.0	14825.2
	% Fixture	69.9	0.0	69.9
Total	Lumens	21223.0	0.0	21223.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	718.6	3.4
10°-20°	1557.8	7.3
20°-30°	2353.7	11.1
30°-40°	3401.2	16.0
40°-50°	4526.3	21.3
50°-60°	5062.8	23.9
60°-70°	2853.4	13.4
70°-80°	636.1	3.0
80°-90°	113.3	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°	21223.0	100.0
0°-180°	21223.0	100.0

Coefficient of Utilization



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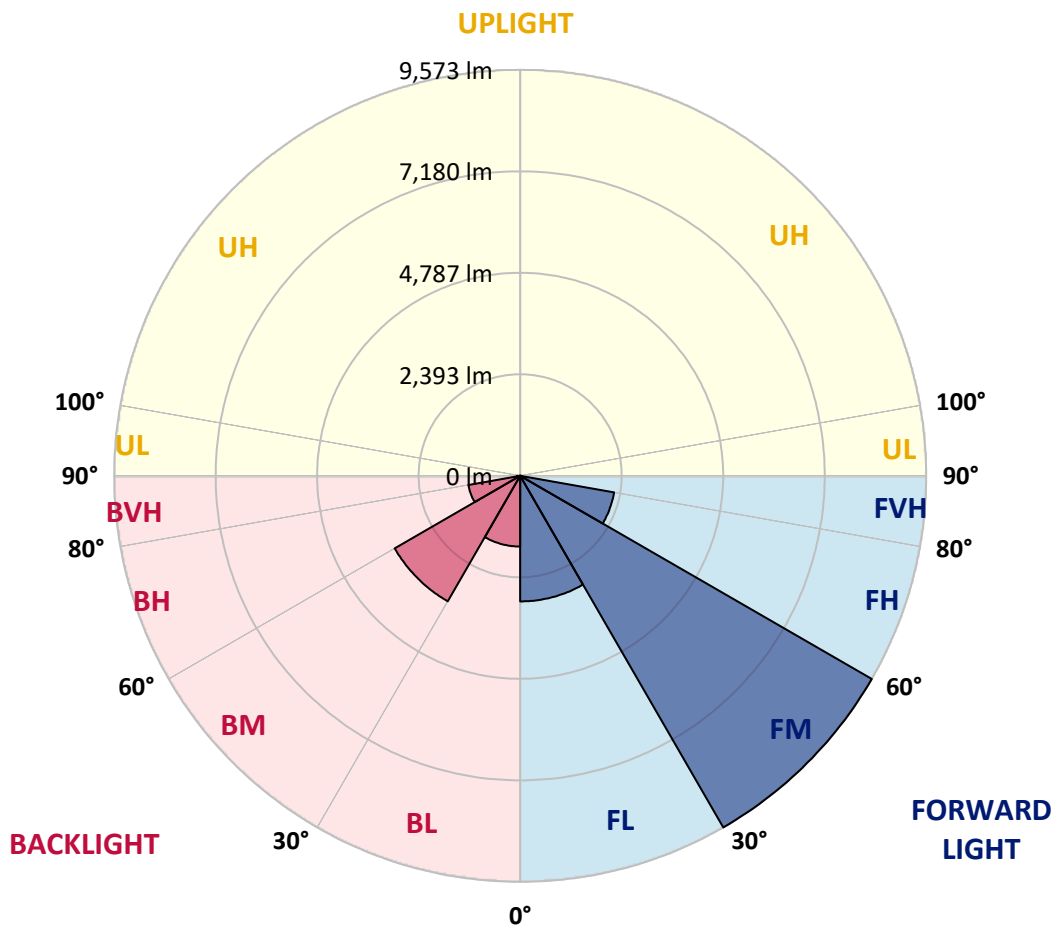
CATALOG NUMBER: GALN-SA5B-740-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2961.6	14.0			
FM (30°-60°)	9573.2	45.1			
FH (60°-80°)	2249.3	10.6			G2/5000
FVH (80°-90°)	41.0	0.2			G1/100
BL (0°-30°)	1668.4	7.9	B3/2500		
BM (30°-60°)	3417.1	16.1	B3/5000		
BH (60°-80°)	1240.1	5.8	B3/2500		G3/2500
BVH (80°-90°)	72.2	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°	9418.9	9418.9	9418.9	9418.9	9418.9	9418.9	9418.9	9418.9	9418.9	9418.9	9418.9
2.5°	9575.8	9729.6	9563.5	9268.2	9059.0	8868.3	8668.3	8628.4	8366.9	8320.7	8130.0
5°	9031.3	8997.5	8794.5	8406.9	7979.3	7591.7	7305.6	7028.8	6841.2	6622.8	6607.4
7.5°	8370.0	8173.1	8056.2	7468.7	6939.6	6330.5	6069.1	5647.6	5515.4	5318.5	5217.0
10°	7779.4	7634.8	7361.0	6773.5	6035.2	5632.3	5352.3	5124.7	4970.9	4767.9	4512.6
12.5°	7487.1	7428.7	7121.1	6210.6	5663.0	5232.4	5035.5	4814.0	4552.6	4226.5	4100.4
15°	7539.4	7342.6	7108.8	6102.9	5346.2	4930.9	4617.2	4340.3	4005.0	3694.3	3512.9
17.5°	7930.1	7779.4	7311.8	6170.6	5226.2	4626.4	4057.3	3648.2	3346.8	3066.8	2940.7
20°	8699.1	8480.7	7954.7	6256.7	4967.8	4201.9	3549.8	3045.3	2722.3	2574.7	2531.6
22.5°	9551.2	9422.0	8582.2	6450.5	4761.7	3808.2	3011.5	2507.0	2387.0	2347.0	2427.0
25°	10587.8	10252.5	9557.3	6767.3	4601.8	3472.9	2556.2	2276.3	2214.8	2254.8	2347.0
27.5°	11375.3	11286.1	10240.2	7065.7	4383.4	3069.9	2300.9	2116.3	2134.8	2174.8	2260.9
30°	12310.4	11858.2	10901.6	7271.8	4186.5	2793.1	2122.5	2073.3	2091.7	2159.4	2202.5
32.5°	12873.3	12704.1	11316.8	7582.5	3958.9	2553.1	1984.1	1937.9	1965.6	2067.1	2168.6
35°	13590.0	13254.7	11830.5	7662.5	3798.9	2457.8	1885.6	1851.8	1916.4	1987.1	2100.9
37.5°	14426.7	14196.0	12541.1	7607.1	3712.8	2359.3	1802.6	1787.2	1833.3	1931.8	2064.0
40°	14922.0	14851.2	12913.3	7640.9	3577.5	2273.2	1707.2	1725.7	1821.0	1897.9	2027.1
42.5°	15398.8	14937.4	13463.9	7628.6	3491.3	2156.3	1716.4	1694.9	1768.7	1857.9	1981.0
45°	15503.3	15045.0	13593.1	7542.5	3386.7	2042.5	1645.7	1654.9	1744.1	1854.9	1934.8
47.5°	15435.7	15097.3	13833.0	7517.9	3288.3	1962.5	1541.1	1651.8	1704.1	1793.3	1907.2
50°	15389.5	15371.1	14036.1	7634.8	3156.0	1836.4	1415.0	1611.9	1664.1	1753.4	1876.4
52.5°	15795.6	15755.6	14543.6	7942.4	3051.5	1701.1	1285.8	1510.3	1636.5	1722.6	1842.6
55°	16041.7	15866.3	15414.1	8320.7	2876.1	1522.7	1196.6	1384.2	1568.8	1645.7	1768.7
57.5°	14429.8	14309.8	13943.8	7767.1	2580.8	1288.9	1085.8	1255.0	1476.5	1596.5	1722.6
60°	12005.9	11818.2	10880.0	6601.2	1904.1	1002.8	1018.2	1153.5	1451.9	1498.0	1645.7
62.5°	11319.9	10855.4	9578.9	5312.4	1461.1	861.3	913.6	1061.2	1322.7	1399.6	1547.3
65°	8982.1	8637.6	6853.5	3835.8	978.2	747.5	833.6	956.7	1141.2	1291.9	1427.3
67.5°	5623.0	5293.9	3657.4	1814.9	682.9	639.8	744.4	873.6	1024.3	1159.7	1310.4
70°	2937.6	2577.7	1688.8	655.2	470.6	522.9	621.4	744.4	892.1	1002.8	1119.7
72.5°	1095.1	889.0	550.6	283.0	326.1	399.9	504.5	593.7	698.3	833.6	898.2
75°	169.2	144.6	141.5	172.3	221.5	289.1	359.9	449.1	541.4	627.5	670.6
77.5°	80.0	76.9	86.1	113.8	147.7	206.1	261.5	347.6	421.4	476.8	501.4
80°	52.3	49.2	55.4	76.9	110.7	153.8	209.2	267.6	335.3	381.4	375.3
82.5°	30.8	33.8	33.8	52.3	76.9	110.7	150.7	203.0	249.2	289.1	264.5
85°	18.5	15.4	15.4	30.8	52.3	89.2	126.1	86.1	89.2	89.2	101.5
87.5°	6.2	6.2	6.2	3.1	6.2	6.2	9.2	15.4	18.5	21.5	27.7
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°	9418.9	9418.9	9418.9	9418.9	9418.9	9418.9	9418.9	9418.9	9418.9	9418.9	9418.9
2.5°	8123.9	8219.2	8185.4	8065.4	8157.7	8173.1	8111.6	8323.8	8363.8	8299.2	8317.7
5°	6585.8	6610.5	6665.8	6782.7	6865.8	6964.2	6964.2	6970.4	6887.3	7096.5	7035.0
7.5°	5130.9	5146.2	5210.8	5460.0	5530.8	5718.4	5798.4	5743.0	5576.9	5506.1	5564.6
10°	4429.5	4340.3	4318.8	4349.5	4509.5	4589.5	4657.2	4638.7	4611.0	4555.6	4494.1
12.5°	3962.0	3897.4	3845.1	3771.3	3780.5	3857.4	3909.7	3866.6	3878.9	3891.2	3909.7
15°	3454.4	3408.3	3380.6	3269.9	3257.5	3309.8	3328.3	3352.9	3399.0	3402.1	3380.6
17.5°	2916.1	2876.1	2937.6	2999.2	2956.1	2959.2	2993.0	3014.5	3002.2	2946.9	2919.2
20°	2547.0	2590.0	2651.6	2710.0	2756.2	2783.8	2796.1	2762.3	2722.3	2608.5	2605.4
22.5°	2439.3	2494.7	2547.0	2636.2	2679.2	2750.0	2685.4	2608.5	2553.1	2497.8	2433.2
25°	2359.3	2405.5	2510.1	2543.9	2627.0	2685.4	2639.3	2562.4	2467.0	2387.0	2337.8
27.5°	2300.9	2353.2	2420.9	2513.1	2577.7	2611.6	2565.4	2534.7	2436.2	2340.9	2270.1
30°	2264.0	2319.3	2442.4	2519.3	2574.7	2602.3	2522.4	2485.5	2414.7	2334.7	2273.2
32.5°	2239.4	2288.6	2393.2	2491.6	2528.5	2528.5	2540.8	2497.8	2399.3	2264.0	2211.7
35°	2159.4	2227.1	2313.2	2427.0	2494.7	2534.7	2473.2	2423.9	2359.3	2220.9	2125.6
37.5°	2113.3	2159.4	2270.1	2377.8	2436.2	2479.3	2454.7	2368.6	2282.4	2168.6	2091.7
40°	2064.0	2137.9	2236.3	2337.8	2402.4	2445.5	2427.0	2325.5	2220.9	2113.3	2061.0
42.5°	2030.2	2079.4	2180.9	2294.7	2371.6	2454.7	2399.3	2273.2	2199.4	2051.7	1993.3
45°	2002.5	2082.5	2190.2	2236.3	2316.3	2402.4	2304.0	2227.1	2140.9	2033.3	1984.1
47.5°	1968.7	2042.5	2113.3	2236.3	2273.2	2313.2	2294.7	2171.7	2097.9	1981.0	1947.1
50°	1956.4	1984.1	2113.3	2180.9	2233.2	2273.2	2224.0	2131.7	2061.0	1941.0	1867.2
52.5°	1907.2	1959.5	2042.5	2131.7	2196.3	2245.5	2165.5	2107.1	2011.7	1885.6	1839.5
55°	1845.6	1876.4	2024.0	2116.3	2150.2	2184.0	2153.2	2057.9	1959.5	1830.3	1784.1
57.5°	1765.7	1836.4	1956.4	2085.6	2128.6	2147.1	2097.9	2021.0	1897.9	1784.1	1710.3
60°	1682.6	1756.4	1888.7	1993.3	2036.4	2104.0	2030.2	1984.1	1842.6	1716.4	1636.5
62.5°	1599.6	1682.6	1781.0	1913.3	1950.2	1977.9	1959.5	1894.9	1781.0	1639.5	1541.1
65°	1501.1	1562.6	1685.7	1753.4	1778.0	1842.6	1778.0	1753.4	1651.8	1516.5	1433.4
67.5°	1353.5	1405.8	1513.4	1578.0	1596.5	1624.2	1621.1	1593.4	1479.6	1387.3	1313.5
70°	1184.3	1230.4	1298.1	1375.0	1384.2	1418.1	1387.3	1381.2	1307.3	1181.2	1141.2
72.5°	950.5	993.6	1082.8	1116.6	1119.7	1132.0	1116.6	1095.1	1076.6	944.4	904.4
75°	729.0	753.6	796.7	827.5	827.5	842.8	833.6	812.1	762.9	679.8	639.8
77.5°	507.6	532.2	587.5	606.0	602.9	609.1	581.4	559.8	486.0	443.0	409.1
80°	369.1	384.5	412.2	424.5	427.6	436.8	403.0	384.5	341.4	292.2	276.8
82.5°	267.6	276.8	279.9	295.3	295.3	279.9	270.7	252.2	221.5	190.7	178.4
85°	110.7	113.8	116.9	135.3	138.4	166.1	153.8	144.6	126.1	107.7	98.4
87.5°	27.7	30.8	40.0	33.8	40.0	40.0	43.1	49.2	49.2	40.0	40.0
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°	9418.9	9418.9	9418.9	9418.9	9418.9	9418.9	9418.9	9418.9	9418.9	9418.9	9418.9
2.5°	8388.4	8413.0	8726.8	8766.8	8920.6	9077.5	9394.3	9621.9	9806.5	9926.4	9960.3
5°	7099.5	7256.4	7401.0	7634.8	7847.0	8148.5	8496.1	8926.7	9468.1	9745.0	9855.7
7.5°	5558.4	5743.0	5952.2	6179.8	6490.5	7031.9	7496.4	7994.7	8686.8	8972.9	9406.6
10°	4537.2	4743.3	5020.1	5195.5	5570.7	6087.5	6628.9	7204.1	7865.5	8277.7	8779.1
12.5°	4011.2	4180.4	4435.7	4804.8	5084.7	5420.0	5823.0	6548.9	7496.4	7887.0	8231.5
15°	3429.8	3617.4	3912.7	4321.9	4657.2	5057.0	5509.2	6299.8	7308.7	7911.6	8203.9
17.5°	2949.9	3085.3	3396.0	3749.7	4134.2	4571.0	5220.1	6287.5	7505.6	8277.7	8754.5
20°	2617.7	2636.2	2805.4	3106.8	3629.8	4198.8	5041.7	6225.9	8136.2	8908.3	9511.2
22.5°	2408.6	2390.1	2393.2	2648.5	3014.5	3832.8	4761.7	6435.1	8852.9	9911.1	10317.1
25°	2304.0	2254.8	2224.0	2279.4	2611.6	3399.0	4549.5	6712.0	9625.0	10738.5	11236.8
27.5°	2248.6	2162.5	2100.9	2110.2	2353.2	3180.6	4417.2	6831.9	10390.9	11892.1	12067.4
30°	2227.1	2119.4	2030.2	1999.4	2159.4	2876.1	4134.2	7038.0	11076.9	12525.7	12676.4
32.5°	2150.2	2017.9	1931.8	1904.1	1968.7	2608.5	3931.2	7185.7	11682.9	13214.8	13162.5
35°	2061.0	1950.2	1842.6	1790.3	1836.4	2436.2	3768.2	7114.9	12396.5	13750.0	13722.3
37.5°	2051.7	1907.2	1818.0	1731.8	1728.7	2224.0	3546.7	7182.6	12851.8	14709.7	14331.4
40°	1971.8	1879.5	1762.6	1691.8	1651.8	2116.3	3331.4	7022.6	13519.3	15097.3	14725.1
42.5°	1974.8	1836.4	1734.9	1651.8	1611.9	1959.5	3183.7	6979.6	13753.1	15727.9	14909.7
45°	1925.6	1790.3	1704.1	1605.7	1584.2	1839.5	3042.2	6779.6	14165.3	15758.7	14679.0
47.5°	1876.4	1756.4	1664.1	1547.3	1498.0	1796.4	2931.5	6613.5	13949.9	15469.5	14359.1
50°	1842.6	1704.1	1618.0	1535.0	1396.5	1722.6	2786.9	6573.5	13648.5	15078.8	13765.4
52.5°	1784.1	1661.1	1571.9	1507.3	1285.8	1654.9	2731.5	6807.3	14017.6	14786.6	13593.1
55°	1728.7	1602.6	1488.8	1362.7	1193.5	1476.5	2577.7	7025.7	14555.9	15460.3	14374.4
57.5°	1670.3	1550.3	1427.3	1276.6	1104.3	1291.9	2417.8	7065.7	13547.0	14288.3	13645.4
60°	1593.4	1439.6	1347.3	1150.4	1008.9	1070.5	1916.4	6229.0	10507.8	11932.0	11953.6
62.5°	1507.3	1341.2	1261.2	1030.5	910.5	922.8	1562.6	5235.5	8523.8	9877.2	10464.8
65°	1393.5	1233.5	1138.1	953.6	839.8	799.8	1144.3	3835.8	6475.1	8013.1	8680.6
67.5°	1245.8	1095.1	975.1	830.5	750.6	686.0	781.3	2159.4	3823.5	5380.0	5583.1
70°	1088.9	959.7	833.6	713.6	624.4	578.3	572.1	956.7	1827.2	2894.6	3294.5
72.5°	858.2	765.9	664.4	575.2	516.8	449.1	409.1	396.8	618.3	1178.1	1627.2
75°	615.2	538.3	479.9	421.4	378.4	341.4	310.7	283.0	258.4	295.3	406.0
77.5°	387.6	359.9	313.8	298.4	273.8	264.5	252.2	236.9	218.4	206.1	206.1
80°	261.5	243.0	227.6	224.6	215.3	212.2	215.3	199.9	181.5	166.1	172.3
82.5°	175.3	172.3	169.2	166.1	169.2	172.3	178.4	175.3	160.0	150.7	153.8
85°	104.6	110.7	116.9	123.0	135.3	120.0	98.4	83.1	73.8	67.7	64.6
87.5°	40.0	55.4	49.2	46.1	49.2	46.1	43.1	40.0	33.8	30.8	30.8
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°	9418.9	9418.9	9418.9	9418.9	9418.9	9418.9	9418.9	9418.9	9418.9	9418.9
2.5°	10184.8	10246.4	10298.7	10286.3	10178.7	10034.1	9975.7	9677.3	9615.8	9575.8
5°	10323.3	10680.1	10757.0	10710.8	10430.9	10077.2	9732.7	9295.9	9040.5	9031.3
7.5°	10067.9	10507.8	10646.2	10750.8	10378.6	9763.4	9172.8	8517.6	8357.7	8370.0
10°	9418.9	10120.2	10461.7	10569.3	10141.8	9609.6	8791.4	8127.0	7785.5	7779.4
12.5°	9059.0	9609.6	9705.0	9855.7	9729.6	9191.3	8569.9	7825.5	7493.3	7487.1
15°	8739.1	9102.1	9129.7	9342.0	9409.7	9046.7	8628.4	7834.7	7567.1	7539.4
17.5°	9019.0	8766.8	8662.2	8689.9	8889.8	9022.1	8966.7	8357.7	8083.9	7930.1
20°	9206.6	8643.7	8326.9	8357.7	8594.5	9077.5	9471.2	9114.4	8680.6	8699.1
22.5°	9708.0	8662.2	8166.9	8133.1	8508.4	9366.6	10040.3	10071.0	9652.7	9551.2
25°	10458.6	8874.4	8117.7	8108.5	8468.4	9677.3	10704.7	11203.0	10775.4	10587.8
27.5°	11061.5	9206.6	8271.5	8302.3	8594.5	9929.5	11270.7	11932.0	11606.0	11375.3
30°	11590.6	9551.2	8486.9	8345.4	8932.9	10061.8	11513.7	12762.6	12501.1	12310.4
32.5°	11809.0	10040.3	8828.3	8594.5	9212.8	10221.7	12018.2	13568.5	13344.0	12873.3
35°	12178.1	10314.0	9012.9	8994.4	9701.9	10606.3	12255.0	14100.7	14008.4	13590.0
37.5°	12473.4	10590.9	9668.1	9465.0	10372.5	11252.2	12636.5	14835.8	14623.6	14426.7
40°	12701.1	11086.1	10280.2	10547.8	11196.9	11839.8	12987.1	14882.0	15494.1	14922.0
42.5°	12491.9	11529.1	11286.1	11925.9	12541.1	12510.3	13027.1	15238.8	15697.1	15398.8
45°	12439.6	12279.6	12876.4	13457.8	13599.3	13067.1	12741.0	14845.1	15635.6	15503.3
47.5°	12313.5	13017.9	14057.6	15005.0	14789.7	13439.3	12399.6	14774.3	15672.5	15435.7
50°	12270.4	13177.8	14931.2	15854.0	15724.8	13762.3	12239.6	14319.1	15411.1	15389.5
52.5°	12267.3	13507.0	15294.2	16315.4	16395.4	14272.9	12458.0	14549.8	15614.1	15795.6
55°	12405.8	13402.4	15248.0	16060.1	16029.4	14045.3	12482.7	14703.6	15863.2	16041.7
57.5°	11701.3	12005.9	12584.2	13227.1	13061.0	11633.7	11147.6	13593.1	14559.0	14429.8
60°	10104.9	9151.3	8499.2	8468.4	8145.4	7699.4	9123.6	12132.0	12132.0	12005.9
62.5°	8849.8	6007.5	5161.6	4921.7	5152.4	5666.1	8800.6	11799.8	11464.5	11319.9
65°	7739.4	4586.4	3731.3	3663.6	4063.5	4838.6	7957.8	10052.6	9462.0	8982.1
67.5°	4980.1	3359.1	2774.6	2654.6	3137.6	3552.9	5297.0	6182.9	5810.7	5623.0
70°	3211.4	2187.1	1544.2	1448.8	1636.5	2190.2	3383.7	3605.1	3063.8	2937.6
72.5°	1519.6	944.4	541.4	446.0	501.4	836.7	1338.1	1439.6	1196.6	1095.1
75°	482.9	347.6	221.5	190.7	181.5	215.3	307.6	236.9	172.3	169.2
77.5°	215.3	206.1	175.3	147.7	129.2	107.7	89.2	73.8	76.9	80.0
80°	178.4	163.0	144.6	129.2	107.7	83.1	64.6	49.2	49.2	52.3
82.5°	156.9	141.5	126.1	107.7	92.3	67.7	49.2	33.8	30.8	30.8
85°	67.7	80.0	86.1	92.3	73.8	55.4	33.8	21.5	18.5	18.5
87.5°	27.7	24.6	21.5	18.5	15.4	15.4	12.3	9.2	6.2	6.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)