

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: P648439

Luminaire Tested: **GALN-SA5B-835-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648439
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-835-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 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: 16617.6 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

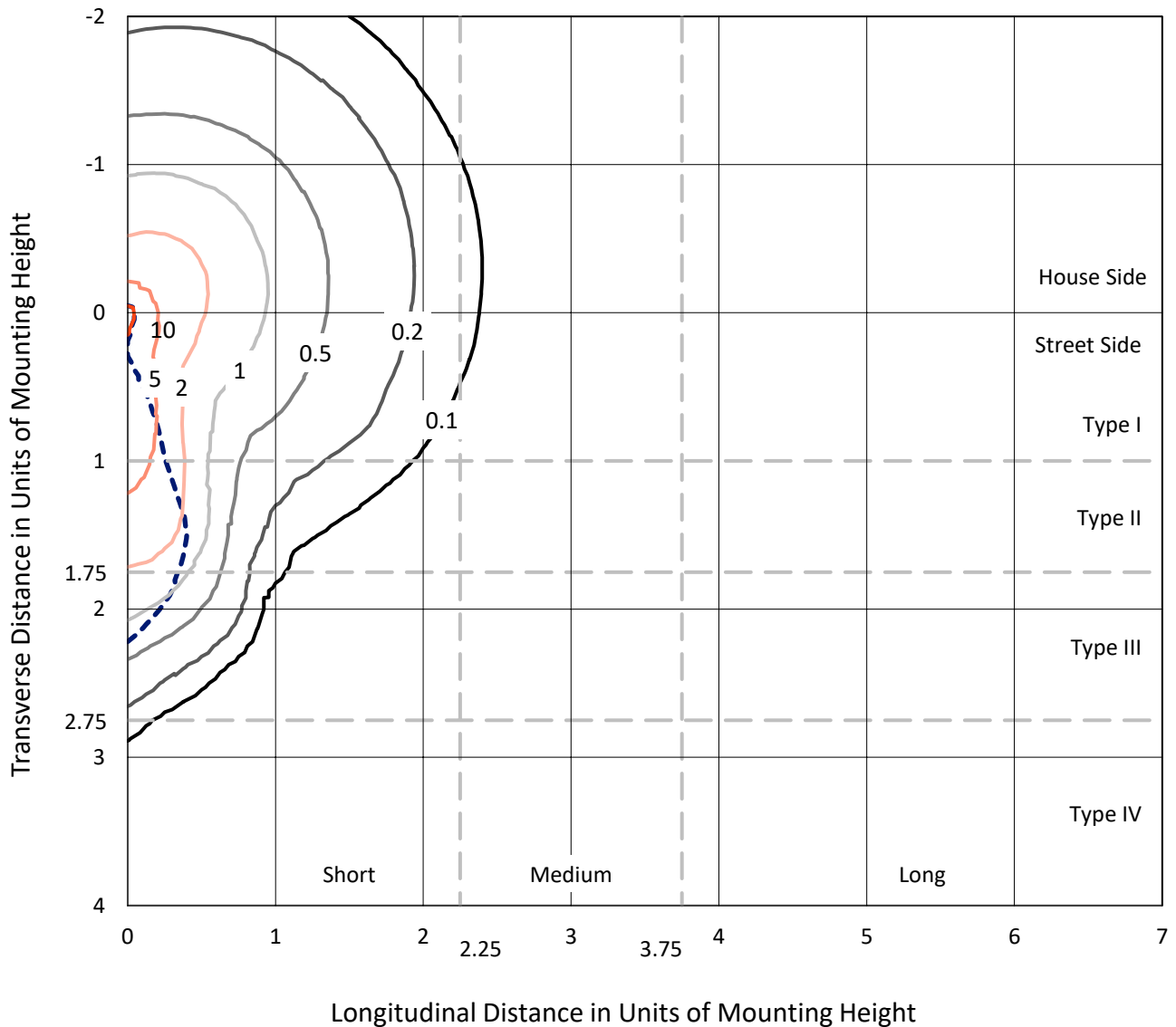
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

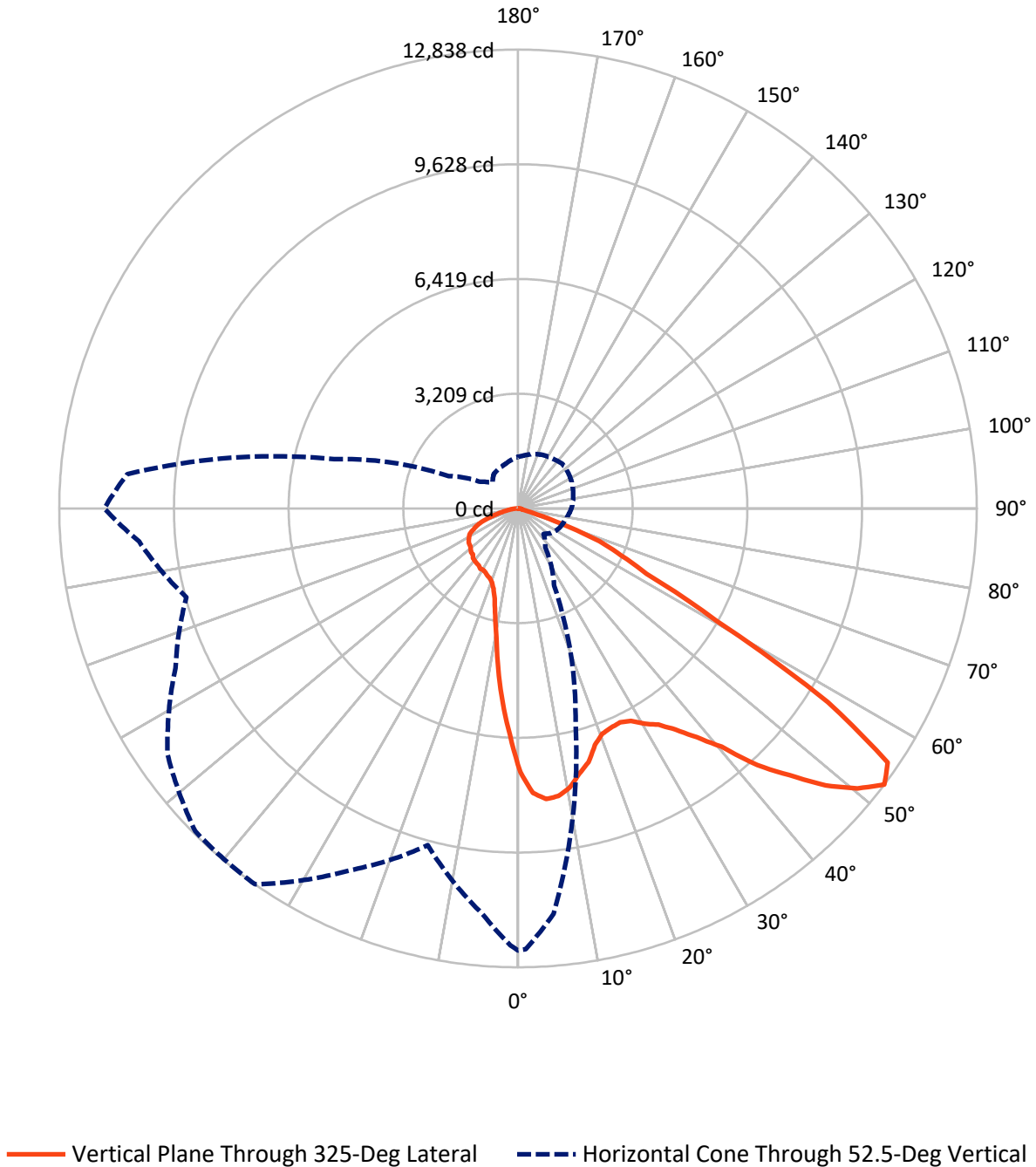
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 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	5009.5	0.0	5009.5
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	11608.1	0.0	11608.1
	% Fixture	69.9	0.0	69.9
Total	Lumens	16617.6	0.0	16617.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	562.7	3.4
10°-20°	1219.7	7.3
20°-30°	1842.9	11.1
30°-40°	2663.1	16.0
40°-50°	3544.1	21.3
50°-60°	3964.2	23.9
60°-70°	2234.2	13.4
70°-80°	498.0	3.0
80°-90°	88.7	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°	16617.6	100.0
0°-180°	16617.6	100.0

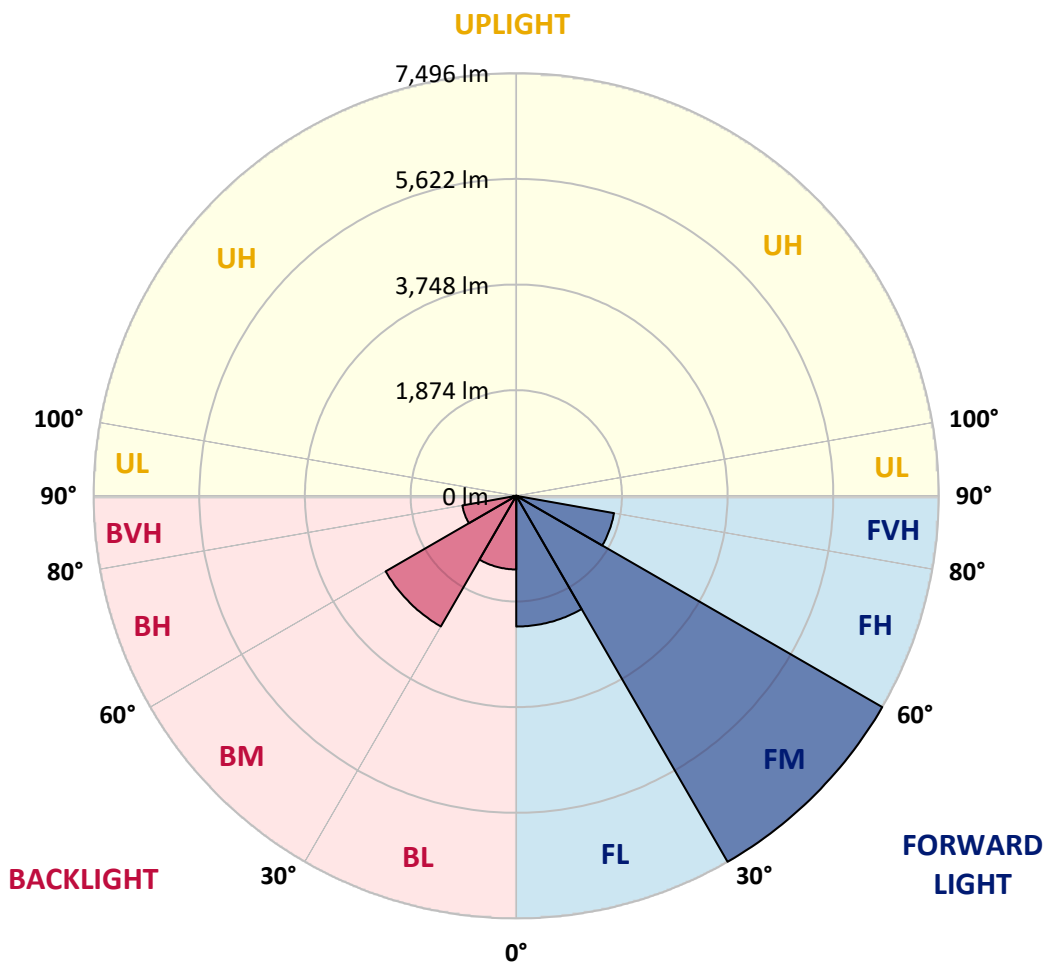


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2318.9	14.0			
FM (30°-60°)	7495.8	45.1			
FH (60°-80°)	1761.2	10.6			G1/1800
FVH (80°-90°)	32.1	0.2			G1/100
BL (0°-30°)	1306.4	7.9	B3/2500		
BM (30°-60°)	2675.6	16.1	B3/5000		
BH (60°-80°)	971.0	5.8	B2/1000		G2/1000
BVH (80°-90°)	56.6	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-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7375.0	7375.0	7375.0	7375.0	7375.0	7375.0	7375.0	7375.0	7375.0	7375.0	7375.0
2.5°	7497.9	7618.3	7488.2	7257.0	7093.2	6943.9	6787.3	6756.0	6551.3	6515.1	6365.8
5°	7071.5	7045.0	6886.1	6582.6	6247.8	5944.3	5720.3	5503.6	5356.7	5185.7	5173.6
7.5°	6553.7	6399.5	6308.0	5848.0	5433.7	4956.8	4752.1	4422.1	4318.6	4164.4	4084.9
10°	6091.3	5978.0	5763.7	5303.7	4725.6	4410.1	4190.9	4012.6	3892.2	3733.3	3533.4
12.5°	5862.4	5816.7	5575.8	4862.9	4434.1	4097.0	3942.8	3769.4	3564.7	3309.3	3210.6
15°	5903.4	5749.3	5566.2	4778.6	4186.1	3860.9	3615.3	3398.5	3135.9	2892.6	2750.6
17.5°	6209.3	6091.3	5725.1	4831.6	4092.1	3622.5	3176.9	2856.5	2620.5	2401.3	2302.6
20°	6811.4	6640.4	6228.5	4899.0	3889.8	3290.1	2779.5	2384.5	2131.6	2016.0	1982.2
22.5°	7478.6	7377.4	6719.9	5050.7	3728.4	2981.8	2358.0	1963.0	1869.0	1837.7	1900.3
25°	8290.2	8027.7	7483.4	5298.8	3603.2	2719.3	2001.5	1782.3	1734.2	1765.5	1837.7
27.5°	8906.9	8837.0	8018.1	5532.4	3432.2	2403.7	1801.6	1657.1	1671.5	1702.9	1770.3
30°	9639.0	9285.0	8536.0	5693.8	3278.0	2187.0	1661.9	1623.4	1637.8	1690.8	1724.6
32.5°	10079.8	9947.3	8861.1	5937.1	3099.8	1999.1	1553.6	1517.4	1539.1	1618.5	1698.0
35°	10641.0	10378.4	9263.3	5999.7	2974.5	1924.5	1476.4	1450.0	1500.5	1555.9	1645.0
37.5°	11296.1	11115.5	9819.7	5956.4	2907.1	1847.3	1411.4	1399.4	1435.5	1512.6	1616.1
40°	11683.9	11628.5	10111.1	5982.8	2801.2	1779.9	1336.7	1351.2	1425.8	1486.1	1587.2
42.5°	12057.3	11696.0	10542.2	5973.2	2733.7	1688.4	1343.9	1327.1	1384.9	1454.7	1551.1
45°	12139.1	11780.2	10643.4	5905.8	2651.8	1599.3	1288.6	1295.8	1365.6	1452.4	1514.9
47.5°	12086.2	11821.2	10831.2	5886.5	2574.7	1536.6	1206.7	1293.4	1334.3	1404.2	1493.3
50°	12050.0	12035.6	10990.3	5978.0	2471.1	1437.9	1107.9	1262.1	1303.0	1372.9	1469.2
52.5°	12368.0	12336.6	11387.6	6218.9	2389.3	1332.0	1006.8	1182.6	1281.4	1348.8	1442.8
55°	12560.7	12423.3	12069.2	6515.1	2252.0	1192.3	936.9	1083.8	1228.4	1288.6	1384.9
57.5°	11298.5	11204.6	10918.0	6081.6	2020.8	1009.2	850.2	982.7	1156.1	1250.1	1348.8
60°	9400.6	9253.7	8519.0	5168.7	1490.9	785.2	797.3	903.2	1136.8	1172.9	1288.6
62.5°	8863.5	8499.8	7500.3	4159.6	1144.0	674.4	715.3	830.9	1035.7	1095.9	1211.5
65°	7033.0	6763.2	5366.3	3003.4	765.9	585.3	652.7	749.1	893.6	1011.6	1117.6
67.5°	4402.8	4145.1	2863.7	1421.1	534.7	501.0	582.9	684.0	802.0	908.0	1026.0
70°	2300.1	2018.3	1322.3	513.0	368.5	409.4	486.6	582.9	698.5	785.2	876.7
72.5°	857.5	696.1	431.1	221.6	255.3	313.1	395.0	464.9	546.8	652.7	703.3
75°	132.5	113.2	110.8	134.9	173.4	226.4	281.8	351.6	423.9	491.3	525.1
77.5°	62.6	60.2	67.4	89.1	115.6	161.4	204.8	272.2	330.0	373.3	392.6
80°	41.0	38.5	43.4	60.2	86.7	120.4	163.8	209.5	262.5	298.6	293.9
82.5°	24.1	26.5	26.5	41.0	60.2	86.7	118.0	158.9	195.1	226.4	207.1
85°	14.5	12.1	12.1	24.1	41.0	69.8	98.7	67.4	69.8	69.8	79.5
87.5°	4.9	4.9	4.9	2.4	4.9	4.9	7.2	12.1	14.5	16.8	21.7
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°	7375.0	7375.0	7375.0	7375.0	7375.0	7375.0	7375.0	7375.0	7375.0	7375.0	7375.0
2.5°	6361.0	6435.6	6409.2	6315.2	6387.5	6399.5	6351.4	6517.5	6548.9	6498.3	6512.8
5°	5156.7	5176.0	5219.3	5310.9	5375.9	5453.0	5453.0	5457.8	5392.8	5556.6	5508.4
7.5°	4017.5	4029.5	4080.1	4275.2	4330.6	4477.5	4540.1	4496.8	4366.7	4311.3	4357.1
10°	3468.3	3398.5	3381.6	3405.7	3530.9	3593.6	3646.6	3632.1	3610.4	3567.0	3518.9
12.5°	3102.2	3051.7	3010.7	2952.9	2960.1	3020.3	3061.3	3027.5	3037.2	3046.8	3061.3
15°	2704.8	2668.7	2647.0	2560.3	2550.6	2591.6	2606.1	2625.3	2661.4	2663.8	2647.0
17.5°	2283.3	2252.0	2300.1	2348.4	2314.6	2317.1	2343.5	2360.4	2350.7	2307.4	2285.7
20°	1994.3	2028.0	2076.2	2121.9	2158.1	2179.7	2189.3	2162.9	2131.6	2042.5	2040.0
22.5°	1910.0	1953.4	1994.3	2064.1	2097.8	2153.2	2102.7	2042.5	1999.1	1955.8	1905.2
25°	1847.3	1883.5	1965.4	1991.9	2056.9	2102.7	2066.6	2006.4	1931.7	1869.0	1830.5
27.5°	1801.6	1842.6	1895.6	1967.8	2018.3	2044.9	2008.7	1984.7	1907.5	1832.9	1777.5
30°	1772.7	1816.0	1912.4	1972.6	2016.0	2037.6	1975.0	1946.1	1890.7	1828.1	1779.9
32.5°	1753.5	1792.0	1873.9	1950.9	1979.8	1979.8	1989.4	1955.8	1878.7	1772.7	1731.8
35°	1690.8	1743.8	1811.2	1900.3	1953.4	1984.7	1936.5	1897.9	1847.3	1739.0	1664.3
37.5°	1654.7	1690.8	1777.5	1861.8	1907.5	1941.3	1922.0	1854.6	1787.1	1698.0	1637.8
40°	1616.1	1674.0	1751.0	1830.5	1881.1	1914.8	1900.3	1820.9	1739.0	1654.7	1613.8
42.5°	1589.6	1628.2	1707.6	1796.8	1857.0	1922.0	1878.7	1779.9	1722.1	1606.5	1560.8
45°	1568.0	1630.6	1714.9	1751.0	1813.7	1881.1	1804.0	1743.8	1676.3	1592.1	1553.6
47.5°	1541.5	1599.3	1654.7	1751.0	1779.9	1811.2	1796.8	1700.4	1642.7	1551.1	1524.6
50°	1531.9	1553.6	1654.7	1707.6	1748.6	1779.9	1741.4	1669.1	1613.8	1519.8	1462.0
52.5°	1493.3	1534.3	1599.3	1669.1	1719.7	1758.2	1695.6	1649.9	1575.2	1476.4	1440.3
55°	1445.1	1469.2	1584.8	1657.1	1683.6	1710.1	1686.0	1611.3	1534.3	1433.1	1397.0
57.5°	1382.5	1437.9	1531.9	1633.0	1666.7	1681.2	1642.7	1582.4	1486.1	1397.0	1339.2
60°	1317.5	1375.3	1478.9	1560.8	1594.5	1647.4	1589.6	1553.6	1442.8	1343.9	1281.4
62.5°	1252.5	1317.5	1394.5	1498.1	1527.0	1548.7	1534.3	1483.7	1394.5	1283.7	1206.7
65°	1175.4	1223.5	1319.9	1372.9	1392.2	1442.8	1392.2	1372.9	1293.4	1187.4	1122.4
67.5°	1059.8	1100.7	1185.0	1235.6	1250.1	1271.7	1269.3	1247.6	1158.5	1086.3	1028.5
70°	927.3	963.4	1016.4	1076.6	1083.8	1110.4	1086.3	1081.5	1023.6	924.9	893.6
72.5°	744.2	778.0	847.8	874.3	876.7	886.4	874.3	857.5	843.0	739.5	708.1
75°	570.8	590.1	623.8	647.9	647.9	659.9	652.7	635.9	597.4	532.3	501.0
77.5°	397.5	416.7	460.0	474.5	472.1	476.9	455.2	438.3	380.5	346.9	320.3
80°	289.0	301.1	322.8	332.4	334.8	342.0	315.5	301.1	267.3	228.8	216.7
82.5°	209.5	216.7	219.2	231.2	231.2	219.2	212.0	197.5	173.4	149.3	139.7
85°	86.7	89.1	91.5	105.9	108.4	130.1	120.4	113.2	98.7	84.3	77.0
87.5°	21.7	24.1	31.3	26.5	31.3	31.3	33.7	38.5	38.5	31.3	31.3
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	7375.0	7375.0	7375.0	7375.0	7375.0	7375.0	7375.0	7375.0	7375.0	7375.0	7375.0
2.5°	6568.1	6587.4	6833.1	6864.4	6984.8	7107.7	7355.7	7533.9	7678.5	7772.4	7798.9
5°	5558.9	5681.8	5795.0	5978.0	6144.2	6380.3	6652.4	6989.6	7413.5	7630.3	7717.0
7.5°	4352.2	4496.8	4660.6	4838.8	5082.1	5506.0	5869.7	6259.9	6801.8	7025.8	7365.4
10°	3552.6	3714.0	3930.7	4068.1	4361.9	4766.5	5190.4	5640.8	6158.7	6481.4	6874.0
12.5°	3140.8	3273.3	3473.2	3762.2	3981.3	4243.9	4559.4	5127.8	5869.7	6175.5	6445.3
15°	2685.5	2832.4	3063.6	3384.0	3646.6	3959.6	4313.7	4932.7	5722.7	6194.8	6423.7
17.5°	2309.8	2415.8	2659.1	2936.0	3237.1	3579.1	4087.3	4923.1	5876.9	6481.4	6854.8
20°	2049.7	2064.1	2196.6	2432.6	2842.1	3287.7	3947.7	4874.9	6370.6	6975.2	7447.3
22.5°	1885.9	1871.4	1873.9	2073.8	2360.4	3001.1	3728.4	5038.7	6931.8	7760.4	8078.3
25°	1804.0	1765.5	1741.4	1784.8	2044.9	2661.4	3562.3	5255.5	7536.4	8408.2	8798.4
27.5°	1760.7	1693.2	1645.0	1652.3	1842.6	2490.4	3458.7	5349.4	8136.1	9311.5	9448.8
30°	1743.8	1659.5	1589.6	1565.5	1690.8	2252.0	3237.1	5510.8	8673.2	9807.6	9925.6
32.5°	1683.6	1580.0	1512.6	1490.9	1541.5	2042.5	3078.1	5626.4	9147.7	10347.2	10306.2
35°	1613.8	1527.0	1442.8	1401.8	1437.9	1907.5	2950.5	5571.0	9706.5	10766.2	10744.6
37.5°	1606.5	1493.3	1423.5	1356.0	1353.6	1741.4	2777.1	5624.0	10063.0	11517.7	11221.5
40°	1543.9	1471.6	1380.1	1324.7	1293.4	1657.1	2608.5	5498.7	10585.6	11821.2	11529.8
42.5°	1546.3	1437.9	1358.4	1293.4	1262.1	1534.3	2492.8	5465.0	10768.7	12314.9	11674.3
45°	1507.7	1401.8	1334.3	1257.3	1240.4	1440.3	2382.0	5308.4	11091.4	12339.1	11493.7
47.5°	1469.2	1375.3	1303.0	1211.5	1172.9	1406.6	2295.4	5178.4	10922.8	12112.6	11243.2
50°	1442.8	1334.3	1266.9	1201.9	1093.5	1348.8	2182.1	5147.1	10686.8	11806.7	10778.3
52.5°	1397.0	1300.6	1230.8	1180.2	1006.8	1295.8	2138.8	5330.1	10975.8	11577.9	10643.4
55°	1353.6	1254.8	1165.7	1067.0	934.5	1156.1	2018.3	5501.1	11397.3	12105.4	11255.2
57.5°	1307.8	1213.9	1117.6	999.6	864.7	1011.6	1893.1	5532.4	10607.3	11187.7	10684.3
60°	1247.6	1127.2	1054.9	900.8	790.0	838.2	1500.5	4877.3	8227.6	9342.8	9359.7
62.5°	1180.2	1050.2	987.5	806.9	712.9	722.6	1223.5	4099.4	6674.1	7733.8	8193.9
65°	1091.1	965.8	891.1	746.7	657.6	626.2	896.0	3003.4	5070.0	6274.3	6796.9
67.5°	975.5	857.5	763.5	650.3	587.7	537.1	611.8	1690.8	2993.8	4212.5	4371.6
70°	852.6	751.4	652.7	558.7	488.9	452.8	448.0	749.1	1430.7	2266.5	2579.6
72.5°	672.0	599.7	520.2	450.4	404.7	351.6	320.3	310.7	484.1	922.5	1274.1
75°	481.7	421.5	375.8	330.0	296.3	267.3	243.3	221.6	202.3	231.2	317.9
77.5°	303.5	281.8	245.7	233.6	214.4	207.1	197.5	185.5	171.0	161.4	161.4
80°	204.8	190.3	178.2	175.9	168.6	166.2	168.6	156.5	142.1	130.1	134.9
82.5°	137.3	134.9	132.5	130.1	132.5	134.9	139.7	137.3	125.3	118.0	120.4
85°	81.9	86.7	91.5	96.3	105.9	94.0	77.0	65.1	57.8	53.0	50.6
87.5°	31.3	43.4	38.5	36.1	38.5	36.1	33.7	31.3	26.5	24.1	24.1
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°	7375.0	7375.0	7375.0	7375.0	7375.0	7375.0	7375.0	7375.0	7375.0	7375.0
2.5°	7974.7	8022.9	8063.9	8054.2	7969.9	7856.7	7811.0	7577.3	7529.2	7497.9
5°	8083.1	8362.5	8422.7	8386.6	8167.4	7890.4	7620.7	7278.7	7078.7	7071.5
7.5°	7883.2	8227.6	8336.0	8417.9	8126.4	7644.7	7182.3	6669.3	6544.1	6553.7
10°	7375.0	7924.1	8191.5	8275.8	7941.0	7524.3	6883.7	6363.4	6096.0	6091.3
12.5°	7093.2	7524.3	7599.0	7717.0	7618.3	7196.8	6710.2	6127.4	5867.3	5862.4
15°	6842.7	7126.9	7148.6	7314.8	7367.8	7083.6	6756.0	6134.6	5925.0	5903.4
17.5°	7061.9	6864.4	6782.5	6804.2	6960.7	7064.3	7020.9	6544.1	6329.7	6209.3
20°	7208.8	6768.0	6520.0	6544.1	6729.5	7107.7	7415.9	7136.6	6796.9	6811.4
22.5°	7601.4	6782.5	6394.7	6368.2	6662.1	7334.0	7861.6	7885.6	7558.1	7478.6
25°	8189.1	6948.7	6356.2	6349.0	6630.8	7577.3	8381.8	8771.9	8437.1	8290.2
27.5°	8661.2	7208.8	6476.6	6500.7	6729.5	7774.8	8825.0	9342.8	9087.5	8906.9
30°	9075.4	7478.6	6645.2	6534.4	6994.5	7878.4	9015.2	9993.1	9788.4	9639.0
32.5°	9246.4	7861.6	6912.6	6729.5	7213.6	8003.6	9410.3	10624.1	10448.4	10079.8
35°	9535.5	8075.9	7057.1	7042.6	7596.6	8304.7	9595.7	11040.8	10968.6	10641.0
37.5°	9766.7	8292.7	7570.1	7411.1	8121.7	8810.5	9894.4	11616.4	11450.3	11296.1
40°	9945.0	8680.4	8049.4	8258.9	8767.2	9270.6	10168.9	11652.6	12131.9	11683.9
42.5°	9781.2	9027.3	8837.0	9338.0	9819.7	9795.6	10200.2	11932.0	12290.8	12057.3
45°	9740.2	9614.9	10082.2	10537.5	10648.3	10231.5	9976.2	11623.7	12242.7	12139.1
47.5°	9641.5	10193.0	11007.1	11748.9	11580.3	10523.0	9708.9	11568.3	12271.6	12086.2
50°	9607.7	10318.2	11691.1	12413.7	12312.5	10775.9	9583.6	11211.9	12066.9	12050.0
52.5°	9605.3	10576.0	11975.4	12775.0	12837.6	11175.7	9754.6	11392.5	12225.8	12368.0
55°	9713.7	10494.1	11939.2	12575.1	12551.0	10997.5	9774.0	11512.9	12420.9	12560.7
57.5°	9162.1	9400.6	9853.4	10356.8	10226.8	9109.2	8728.6	10643.4	11399.7	11298.5
60°	7912.1	7165.5	6654.9	6630.8	6377.8	6028.6	7143.8	9499.4	9499.4	9400.6
62.5°	6929.4	4703.9	4041.5	3853.7	4034.3	4436.6	6890.9	9239.2	8976.7	8863.5
65°	6060.0	3591.2	2921.6	2868.6	3181.7	3788.6	6231.0	7871.2	7408.7	7033.0
67.5°	3899.4	2630.2	2172.5	2078.6	2456.7	2781.9	4147.6	4841.2	4549.8	4402.8
70°	2514.5	1712.5	1209.1	1134.4	1281.4	1714.9	2649.4	2822.8	2399.0	2300.1
72.5°	1189.8	739.5	423.9	349.2	392.6	655.1	1047.7	1127.2	936.9	857.5
75°	378.1	272.2	173.4	149.3	142.1	168.6	240.9	185.5	134.9	132.5
77.5°	168.6	161.4	137.3	115.6	101.2	84.3	69.8	57.8	60.2	62.6
80°	139.7	127.6	113.2	101.2	84.3	65.1	50.6	38.5	38.5	41.0
82.5°	122.9	110.8	98.7	84.3	72.3	53.0	38.5	26.5	24.1	24.1
85°	53.0	62.6	67.4	72.3	57.8	43.4	26.5	16.8	14.5	14.5
87.5°	21.7	19.3	16.8	14.5	12.1	12.1	9.6	7.2	4.9	4.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)