

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: P648050

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648050
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-SA7A-835-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 615mA 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: 18574.3 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 II - Short
BUG Rating: B3 - U0 - G3

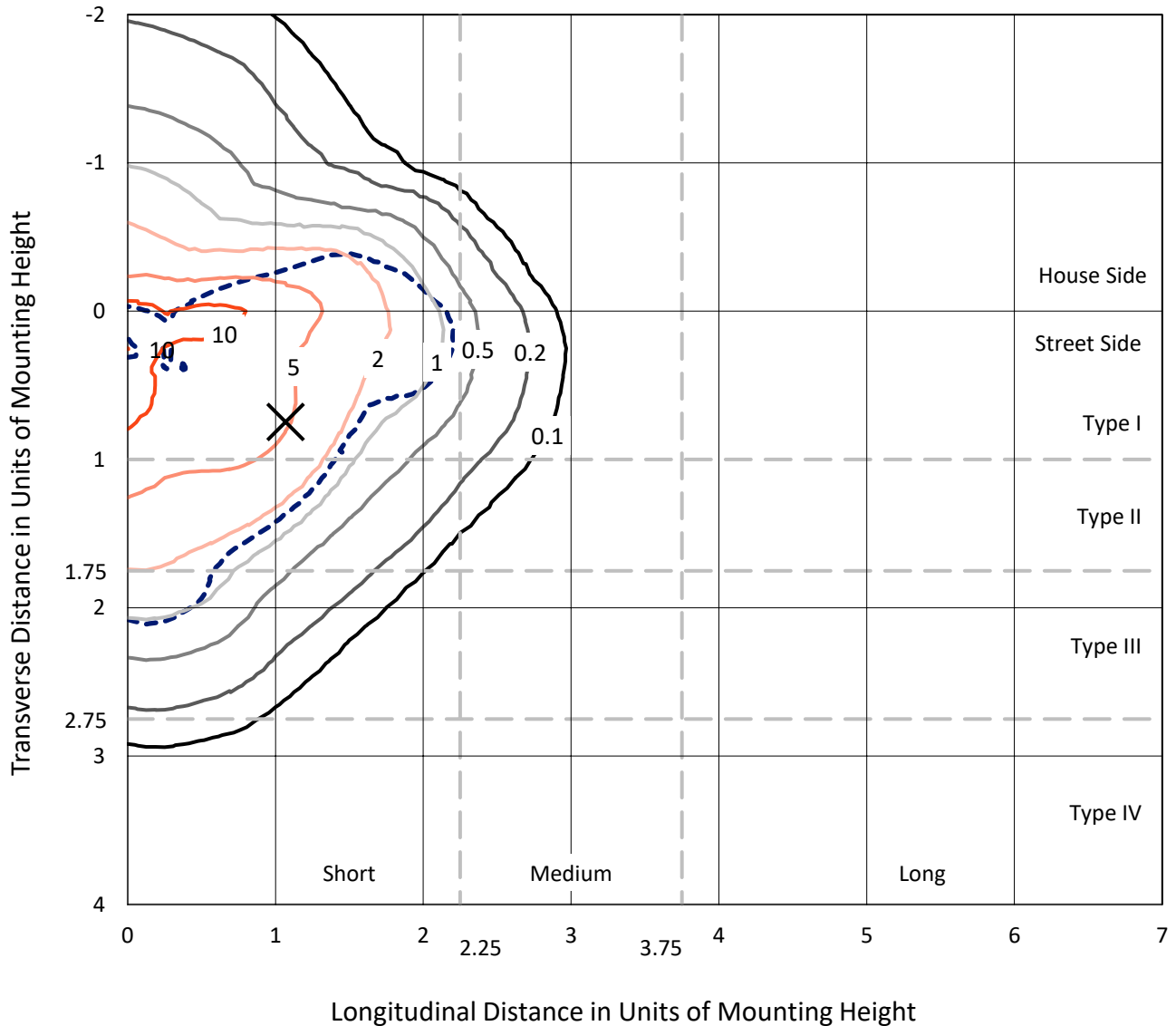
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

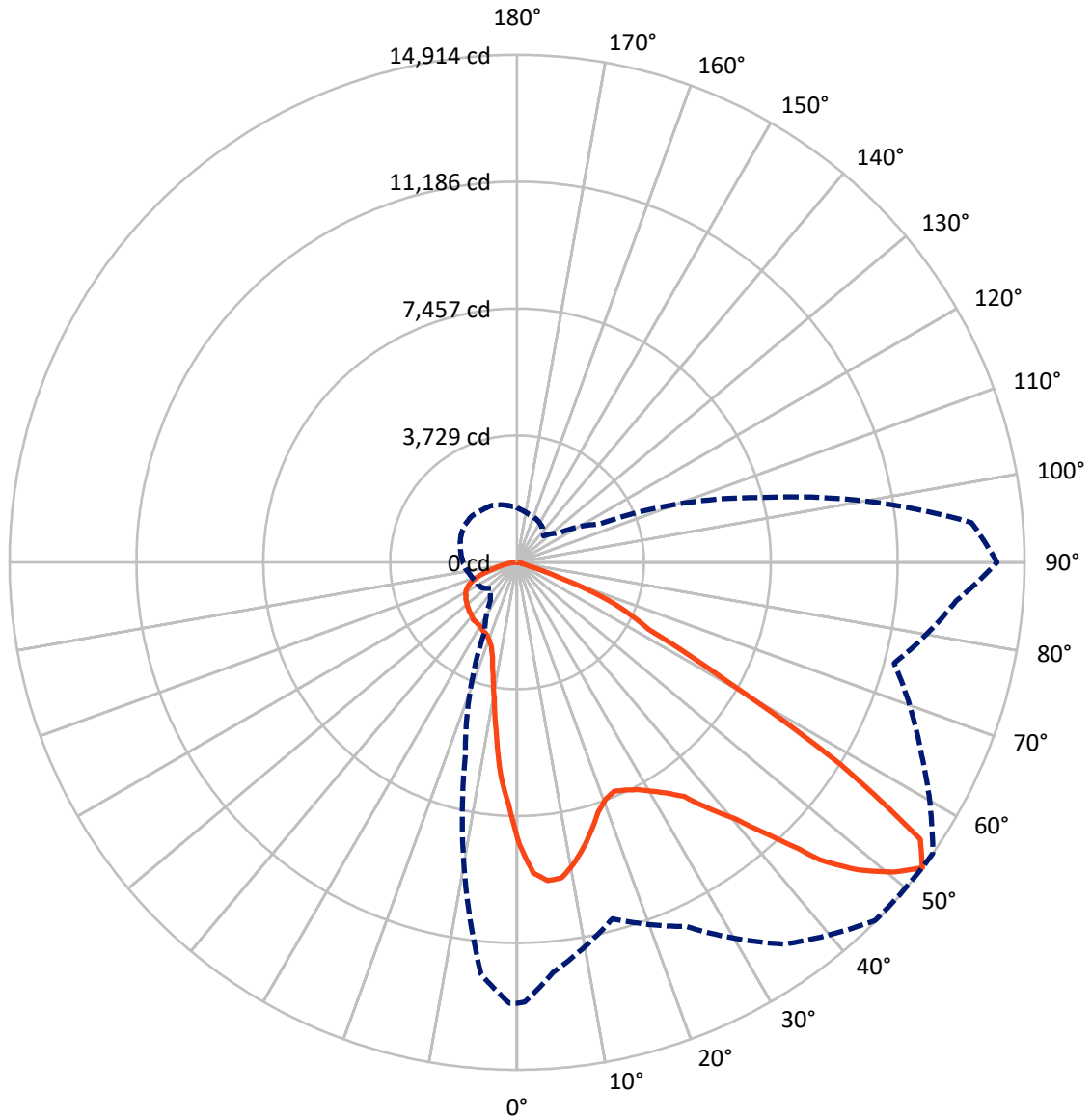
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 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	5666.2	0.0	5666.2
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	12908.1	0.0	12908.1
	% Fixture	69.5	0.0	69.5
Total	Lumens	18574.3	0.0	18574.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	633.0	3.4
10°-20°	1364.8	7.3
20°-30°	2069.5	11.1
30°-40°	2990.2	16.1
40°-50°	3995.7	21.5
50°-60°	4460.1	24.0
60°-70°	2446.5	13.2
70°-80°	528.9	2.8
80°-90°	85.6	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°	18574.3	100.0
0°-180°	18574.3	100.0

Coefficient of Utilization

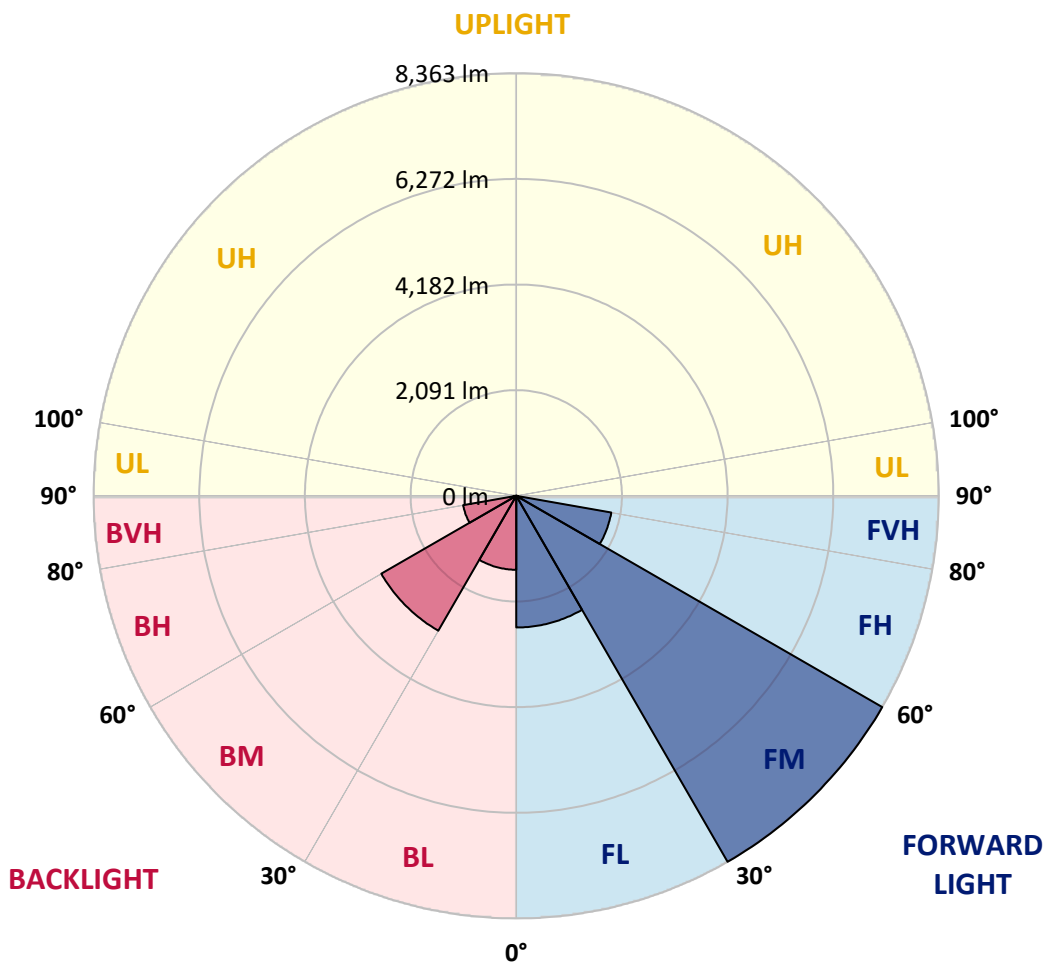


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2604.5	14.0			
FM (30°-60°)	8363.0	45.0			
FH (60°-80°)	1909.0	10.3			G2/5000
FVH (80°-90°)	31.7	0.2			G1/100
BL (0°-30°)	1462.9	7.9	B3/2500		
BM (30°-60°)	3082.9	16.6	B3/5000		
BH (60°-80°)	1066.5	5.7	B3/2500		G3/2500
BVH (80°-90°)	53.9	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°	8285.5	8285.5	8285.5	8285.5	8285.5	8285.5	8285.5	8285.5	8285.5	8285.5	8285.5
2.5°	8695.1	8646.3	8689.7	8895.8	9015.1	9096.5	9148.0	9139.9	8944.6	8754.8	8754.8
5°	8440.2	8377.8	8467.3	8933.8	9403.0	9443.7	9511.5	9400.3	9112.8	8765.6	8331.7
7.5°	7702.4	7748.6	7897.7	8510.7	9120.9	9427.4	9508.8	9367.7	8901.2	8253.1	7615.7
10°	7065.1	7173.6	7518.1	8179.8	8741.3	9139.9	9229.4	9031.4	8662.6	7867.9	7298.3
12.5°	6845.5	6777.6	7160.1	7821.8	8358.8	8573.1	8613.8	8627.3	8377.8	7672.6	6978.3
15°	6818.3	6861.7	7160.1	7661.8	7992.7	8003.5	8071.3	8177.1	8209.7	7805.6	7127.5
17.5°	7208.8	7157.3	7463.8	7862.5	7705.2	7547.9	7564.2	7716.1	7984.6	7919.4	7596.7
20°	7786.5	7903.2	8144.5	8103.9	7680.8	7282.1	7284.8	7428.6	7957.4	8391.3	8250.3
22.5°	8746.7	8860.6	9039.6	8548.6	7680.8	7203.4	7111.2	7306.5	8131.0	8952.7	8988.1
25°	9622.7	9831.5	9880.3	9302.7	8065.9	7276.7	7217.0	7409.5	8304.6	9500.6	9834.2
27.5°	10420.0	10496.0	10710.3	9788.1	8280.1	7325.5	7320.0	7566.8	8524.3	9774.6	10590.9
30°	11049.2	11041.1	11163.2	10094.6	8621.9	7599.4	7336.3	7802.8	8811.7	10227.5	11290.6
32.5°	11477.8	11570.0	11827.6	10520.4	8765.6	7859.8	7653.7	8079.5	9161.6	10441.8	11784.2
35°	12231.7	12391.8	12066.3	10756.4	9221.3	8117.4	7876.0	8456.5	9335.2	10675.0	12389.0
37.5°	12942.4	12820.3	12489.4	10883.8	9516.9	8594.8	8369.6	9186.0	9874.9	11182.2	12790.5
40°	13398.0	13395.3	12806.7	10986.9	9725.7	9324.4	9310.8	9926.4	10536.7	11502.2	13240.7
42.5°	13595.9	13785.8	12936.9	10976.0	10165.1	10208.5	10482.4	11033.0	11005.8	11567.3	13229.8
44°	13867.2	13981.1	13162.0	11000.4	10458.0	10805.2	11450.7	11800.5	11415.4	11532.0	13216.3
45°	13856.4	13864.4	12842.0	11033.0	10707.5	11304.2	11881.9	12473.1	11776.1	11456.1	13395.3
47.5°	13539.0	13446.8	12570.8	10791.6	11485.9	12622.3	13156.6	13514.6	12220.9	11293.4	13172.9
50°	12912.5	12806.7	11911.7	10688.6	11648.6	13441.4	14179.0	14309.2	12625.0	11133.3	12953.2
52.5°	12955.9	12926.1	12098.8	10843.1	11811.4	13699.1	14881.5	14914.0	13083.4	11469.6	12955.9
55°	13731.5	13628.5	12635.8	11035.7	11692.1	13398.0	14434.0	14377.1	12928.7	11266.2	13194.6
57.5°	12565.3	12633.2	11892.8	10273.6	10232.9	10891.9	11347.6	11206.5	10788.9	10167.8	12275.2
60°	10138.0	10330.5	10401.1	8592.1	7721.5	7382.4	7246.8	6997.4	7067.8	8353.4	10783.5
62.5°	8695.1	8684.3	9126.3	7789.3	5058.1	4350.3	4285.2	4342.1	5155.7	8223.2	10561.1
65°	6894.2	7078.7	7214.3	6601.3	4003.1	3230.2	3227.4	3588.2	4461.5	6872.5	8526.9
67.5°	4377.4	4618.8	4786.9	4222.8	2676.9	2299.9	2237.5	2671.4	3091.8	4507.6	5134.1
70°	2468.0	2581.9	2657.9	2435.5	1703.3	1193.4	1122.8	1225.9	1868.6	2918.2	3043.1
72.5°	952.0	1003.5	1106.5	1114.7	642.8	385.2	311.9	374.3	786.5	1155.4	1101.1
75°	146.4	157.3	222.4	265.8	184.4	141.0	149.2	154.6	219.7	298.3	249.5
77.5°	70.5	70.5	67.8	78.6	92.2	100.4	108.5	119.3	130.2	143.8	138.4
80°	46.1	46.1	46.1	54.3	67.8	81.4	92.2	97.6	103.0	113.9	108.5
82.5°	29.8	29.8	29.8	40.7	54.3	67.8	73.2	86.8	97.6	113.9	105.8
85°	16.3	16.3	16.3	27.1	40.7	56.9	54.3	43.4	24.4	2.7	5.4
87.5°	5.4	5.4	5.4	5.4	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°	8285.5	8285.5	8285.5	8285.5	8285.5	8285.5	8285.5	8285.5	8285.5	8285.5	8285.5
2.5°	8526.9	8402.2	8391.3	8136.4	7908.6	7797.4	7707.9	7458.4	7512.7	7368.9	7366.2
5°	8114.7	7859.8	7447.5	7108.5	6769.5	6701.7	6406.0	6148.4	6156.6	5972.1	6004.7
7.5°	7374.3	7198.0	6696.3	6164.7	5714.5	5394.5	5115.1	4946.9	4732.7	4659.5	4621.5
10°	6905.1	6688.2	6124.0	5456.8	4952.4	4781.5	4513.0	4363.8	4144.2	4035.7	3959.7
12.5°	6699.0	6381.7	5676.5	4998.4	4662.1	4485.9	4258.0	3986.9	3726.5	3626.2	3487.8
15°	6720.6	6341.0	5546.3	4814.0	4409.9	4068.2	3864.8	3563.7	3298.0	3121.7	3021.4
17.5°	7048.9	6587.8	5606.0	4673.0	4092.6	3664.1	3265.4	2939.9	2728.4	2595.5	2563.0
20°	7824.5	7198.0	5706.3	4445.2	3775.3	3241.0	2750.1	2411.1	2248.4	2245.6	2248.4
22.5°	8470.0	7848.9	5909.8	4309.6	3458.0	2698.6	2210.4	2101.9	2069.4	2137.2	2145.3
25°	9340.6	8581.2	6259.6	4239.1	3165.0	2299.9	1998.8	1958.1	1955.5	2042.2	2045.0
27.5°	10232.9	9221.3	6468.4	4032.9	2866.7	2093.7	1871.4	1863.2	1906.6	1998.8	1990.7
30°	10840.4	9758.3	6845.5	3786.1	2514.1	1912.1	1819.8	1830.7	1890.4	1960.9	1971.8
32.5°	11548.3	10287.1	6943.1	3650.5	2297.2	1760.2	1695.1	1719.5	1795.4	1906.6	1966.3
35°	12359.2	10661.4	7092.3	3466.1	2215.8	1643.6	1611.0	1638.1	1730.4	1803.6	1868.6
37.5°	12958.6	11323.2	7119.3	3322.3	2126.3	1578.4	1526.9	1616.4	1670.7	1773.7	1806.3
40°	13403.4	11803.3	7189.9	3232.9	2055.8	1494.4	1494.4	1554.0	1627.3	1722.2	1787.3
42.5°	13688.2	12153.1	7241.4	3151.5	1920.2	1470.0	1456.4	1516.1	1613.7	1705.9	1735.8
44°	13861.8	12302.3	7189.9	3075.5	1882.3	1440.2	1440.2	1491.7	1567.6	1676.1	1711.3
45°	13905.1	12489.4	7076.0	3072.9	1836.1	1404.9	1399.5	1497.1	1548.6	1681.5	1703.3
47.5°	14073.3	12719.9	7089.5	2986.0	1724.9	1320.8	1415.7	1459.1	1505.2	1621.8	1695.1
50°	14067.8	12863.7	7059.7	2858.6	1643.6	1225.9	1383.2	1432.0	1478.1	1597.5	1627.3
52.5°	14105.8	13400.7	7333.7	2655.2	1497.1	1103.9	1274.7	1383.2	1440.2	1540.5	1602.9
55°	14086.9	13707.1	7604.8	2503.3	1291.0	1030.6	1182.5	1310.0	1391.3	1497.1	1526.9
57.5°	12866.4	12115.1	7038.0	2218.6	1068.6	943.8	1052.3	1234.0	1337.1	1445.6	1483.6
60°	10512.2	9337.9	5804.0	1632.7	878.8	867.9	979.1	1209.6	1253.0	1347.9	1413.0
62.5°	9714.9	8190.6	4602.5	1247.6	751.3	794.7	903.1	1093.0	1160.8	1277.4	1337.1
65°	7602.1	5440.5	2850.4	843.4	661.8	713.3	816.4	957.4	1068.6	1177.1	1247.6
67.5°	4502.2	2972.5	1410.3	591.2	577.7	632.0	737.7	843.4	970.9	1090.2	1125.6
70°	2451.8	1461.9	602.1	450.2	490.9	539.7	642.8	716.0	838.0	930.3	989.9
72.5°	786.5	444.8	301.1	333.6	374.3	431.2	493.6	583.1	669.9	724.1	773.0
75°	189.9	187.1	214.2	233.3	271.2	314.6	366.1	412.2	480.1	531.6	575.0
77.5°	132.9	143.8	165.4	192.5	206.1	222.4	254.9	290.2	320.0	358.0	385.2
80°	103.0	111.2	127.5	141.0	154.6	168.2	184.4	198.0	217.0	241.4	254.9
82.5°	97.6	103.0	119.3	127.5	122.1	119.3	130.2	135.6	138.4	146.4	154.6
85°	8.1	0.0	5.4	18.9	46.1	67.8	73.2	73.2	70.5	76.0	76.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	10.9	8.1
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8285.5	8285.5	8285.5	8285.5	8285.5	8285.5	8285.5	8285.5	8285.5	8285.5	8285.5
2.5°	7333.7	7241.4	7276.7	7320.0	7257.7	7113.9	7151.9	7135.6	7282.1	7271.3	7417.7
5°	6148.4	6004.7	6021.0	6232.5	6164.7	6237.9	6091.4	6072.5	6099.6	6113.2	6137.5
7.5°	4705.6	4686.6	4849.3	5028.3	5112.4	5025.6	4881.8	4849.3	4819.4	4759.8	4895.4
10°	3840.4	3845.8	3835.0	3970.6	4065.5	4046.5	3959.7	3948.9	3891.9	3870.2	3946.2
12.5°	3428.1	3354.9	3319.7	3276.2	3349.5	3398.3	3360.3	3333.2	3335.9	3363.1	3373.9
15°	3029.4	2983.4	2907.4	2858.6	2893.9	2869.5	2855.9	2910.1	2896.6	2891.1	2956.2
17.5°	2581.9	2619.9	2614.5	2560.3	2606.4	2587.3	2584.7	2546.7	2495.2	2457.2	2478.9
20°	2286.4	2356.8	2411.1	2413.8	2438.2	2435.5	2394.8	2278.2	2240.2	2232.1	2237.5
22.5°	2180.6	2218.6	2283.6	2375.9	2375.9	2332.5	2283.6	2148.0	2112.8	2074.8	2058.5
25°	2096.5	2169.7	2253.8	2264.7	2308.0	2267.3	2188.7	2120.9	2047.7	1996.1	1996.1
27.5°	2053.1	2134.5	2196.9	2215.8	2275.5	2242.9	2161.5	2074.8	1988.0	1985.3	1939.2
30°	2034.1	2110.0	2150.7	2196.9	2224.0	2172.4	2148.0	2055.8	1969.0	1947.3	1871.4
32.5°	1977.2	2085.6	2161.5	2150.7	2172.4	2150.7	2115.4	2039.6	1941.9	1893.1	1884.9
35°	1912.1	2020.5	2101.9	2158.9	2172.4	2126.3	2104.6	2001.6	1868.6	1844.3	1760.2
37.5°	1876.8	1941.9	2042.2	2134.5	2153.4	2129.1	2055.8	1950.1	1817.1	1790.0	1716.8
40°	1833.4	1917.5	1996.1	2072.1	2129.1	2069.4	1985.3	1882.3	1822.6	1741.2	1719.5
42.5°	1800.8	1895.8	1960.9	2045.0	2110.0	2031.4	1933.8	1863.2	1779.1	1724.9	1662.5
44°	1790.0	1876.8	1920.2	2023.3	2077.5	2017.9	1936.4	1863.2	1765.6	1716.8	1662.5
45°	1752.0	1871.4	1917.5	2009.7	2055.8	2007.0	1903.9	1830.7	1760.2	1700.5	1643.6
47.5°	1714.1	1795.4	1874.1	1947.3	1979.9	1963.6	1876.8	1787.3	1703.3	1667.9	1613.7
50°	1703.3	1784.6	1857.8	1925.6	1963.6	1931.0	1852.4	1765.6	1667.9	1611.0	1564.9
52.5°	1649.0	1749.3	1830.7	1852.4	1901.2	1882.3	1822.6	1727.6	1635.5	1586.6	1548.6
55°	1570.3	1676.1	1787.3	1814.4	1884.9	1855.1	1765.6	1676.1	1597.5	1524.2	1475.4
57.5°	1540.5	1643.6	1752.0	1787.3	1830.7	1781.9	1760.2	1665.3	1540.5	1502.5	1426.5
60°	1464.5	1594.7	1684.2	1765.6	1768.3	1754.8	1716.8	1608.3	1505.2	1434.7	1380.5
62.5°	1404.9	1526.9	1597.5	1673.4	1719.5	1681.5	1643.6	1543.2	1432.0	1353.3	1291.0
65°	1318.1	1429.3	1489.0	1535.1	1586.6	1581.2	1516.1	1442.8	1326.2	1263.8	1204.2
67.5°	1185.2	1282.9	1364.2	1407.6	1440.2	1432.0	1383.2	1331.6	1212.3	1149.9	1106.5
70°	1025.2	1125.6	1177.1	1201.5	1234.0	1250.3	1212.3	1187.9	1082.1	1000.8	960.1
72.5°	824.5	889.6	965.5	987.2	1000.8	1011.6	1011.6	989.9	881.4	848.9	778.4
75°	607.5	659.1	716.0	716.0	740.4	743.1	748.5	735.0	653.6	610.3	594.0
77.5°	412.2	450.2	496.3	515.3	531.6	528.8	526.2	488.2	444.8	425.8	409.5
80°	268.5	306.5	328.2	352.6	368.9	366.1	371.5	344.4	325.5	292.9	298.3
82.5°	160.0	189.9	211.6	241.4	241.4	249.5	249.5	241.4	222.4	206.1	206.1
85°	76.0	100.4	113.9	132.9	143.8	146.4	130.2	111.2	92.2	84.1	92.2
87.5°	13.5	18.9	27.1	24.4	29.8	27.1	27.1	27.1	27.1	21.7	24.4
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°	8285.5	8285.5	8285.5	8285.5	8285.5	8285.5	8285.5	8285.5	8285.5	8285.5
2.5°	7363.5	7499.1	7594.0	7751.3	8022.5	8239.5	8461.9	8627.3	8646.3	8695.1
5°	6227.0	6300.3	6541.7	6856.3	7078.7	7444.8	7680.8	8109.3	8269.3	8440.2
7.5°	4862.9	4982.2	5305.0	5516.5	6004.7	6463.0	6937.6	7466.5	7678.1	7702.4
10°	4100.7	4274.3	4494.0	4833.1	5098.8	5608.7	6200.0	6788.5	7024.4	7065.1
12.5°	3601.7	3824.1	4117.0	4361.2	4616.1	5060.8	5627.7	6354.5	6661.0	6845.5
15°	3121.7	3352.2	3674.9	4014.0	4239.1	4770.7	5437.9	6256.9	6655.6	6818.3
17.5°	2628.1	2842.3	3108.1	3474.2	3927.2	4523.9	5408.0	6582.4	7019.0	7208.8
20°	2205.0	2324.3	2633.5	3010.5	3577.3	4271.7	5418.8	7062.4	7702.4	7786.5
22.5°	2039.6	2066.7	2188.7	2535.8	3156.9	4014.0	5611.4	7743.2	8470.0	8746.7
25°	1912.1	1906.6	1939.2	2172.4	2850.4	3913.6	5801.2	8369.6	9321.6	9622.7
27.5°	1841.5	1787.3	1790.0	2009.7	2633.5	3750.9	6045.4	9088.4	10287.1	10420.0
30°	1806.3	1795.4	1762.9	1852.4	2397.5	3506.8	6086.0	9796.3	10856.7	11049.2
32.5°	1784.6	1678.8	1638.1	1670.7	2175.2	3241.0	6237.9	10262.7	11561.9	11477.8
35°	1676.1	1581.2	1554.0	1586.6	2017.9	3091.8	6137.5	10669.5	12090.7	12231.7
37.5°	1635.5	1551.4	1497.1	1470.0	1871.4	2967.1	6086.0	11296.0	12603.3	12942.4
40°	1597.5	1508.0	1442.8	1415.7	1757.4	2801.7	6069.7	11778.8	13194.6	13398.0
42.5°	1554.0	1497.1	1423.9	1375.0	1619.2	2636.2	5882.6	11928.0	13376.3	13595.9
44°	1540.5	1453.7	1377.8	1361.5	1564.9	2552.1	5844.6	12063.6	13533.6	13867.2
45°	1526.9	1445.6	1358.8	1337.1	1546.0	2506.0	5793.1	12096.2	13794.0	13856.4
47.5°	1489.0	1437.4	1353.3	1293.7	1505.2	2405.7	5638.5	11911.7	13528.1	13539.0
50°	1459.1	1399.5	1312.7	1196.0	1451.0	2321.6	5709.1	11843.9	12888.1	12912.5
52.5°	1426.5	1337.1	1288.3	1087.6	1361.5	2251.0	5858.2	12150.4	12961.3	12955.9
55°	1388.7	1291.0	1171.7	995.3	1212.3	2161.5	6218.9	12755.2	13639.3	13731.5
57.5°	1329.0	1244.9	1074.0	914.0	1041.5	1990.7	6102.3	11597.1	12549.1	12565.3
60°	1250.3	1171.7	973.7	851.6	854.3	1570.3	5456.8	9036.8	9902.1	10138.0
62.5°	1174.3	1131.0	889.6	762.1	726.9	1250.3	4613.4	7509.9	8499.9	8695.1
65°	1084.8	979.1	816.4	694.3	623.8	876.0	3268.2	5611.4	6631.1	6894.2
67.5°	970.9	857.1	718.7	610.3	534.3	585.8	1687.0	3189.5	4222.8	4377.4
70°	848.9	743.1	604.8	515.3	431.2	404.1	743.1	1521.5	2308.0	2468.0
72.5°	697.0	599.4	482.8	406.8	322.8	279.4	249.5	406.8	819.1	952.0
75°	504.5	436.7	363.4	290.2	227.9	179.0	146.4	122.1	135.6	146.4
77.5°	371.5	317.3	268.5	206.1	160.0	127.5	100.4	76.0	73.2	70.5
80°	290.2	257.7	214.2	165.4	124.7	94.9	70.5	51.5	46.1	46.1
82.5°	227.9	211.6	176.3	135.6	103.0	76.0	51.5	35.2	29.8	29.8
85°	86.8	86.8	127.5	111.2	78.6	54.3	35.2	18.9	16.3	16.3
87.5°	21.7	21.7	21.7	21.7	18.9	16.3	16.3	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)