

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P635897

Luminaire Tested: GWS-SA3E-760-U-SLL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635897
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-37)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3E-760-U-SLL-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: (48) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20794.7 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

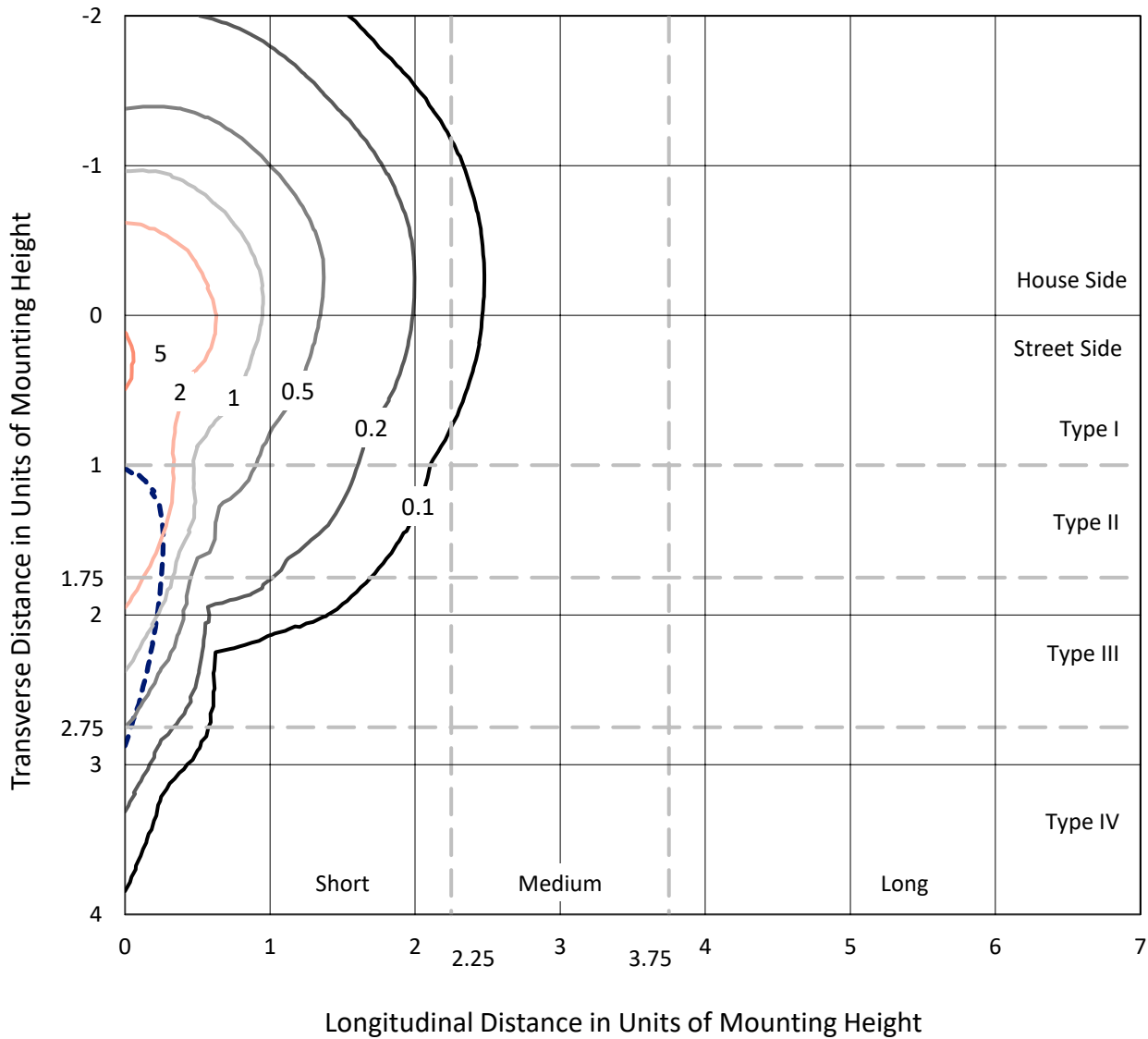
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

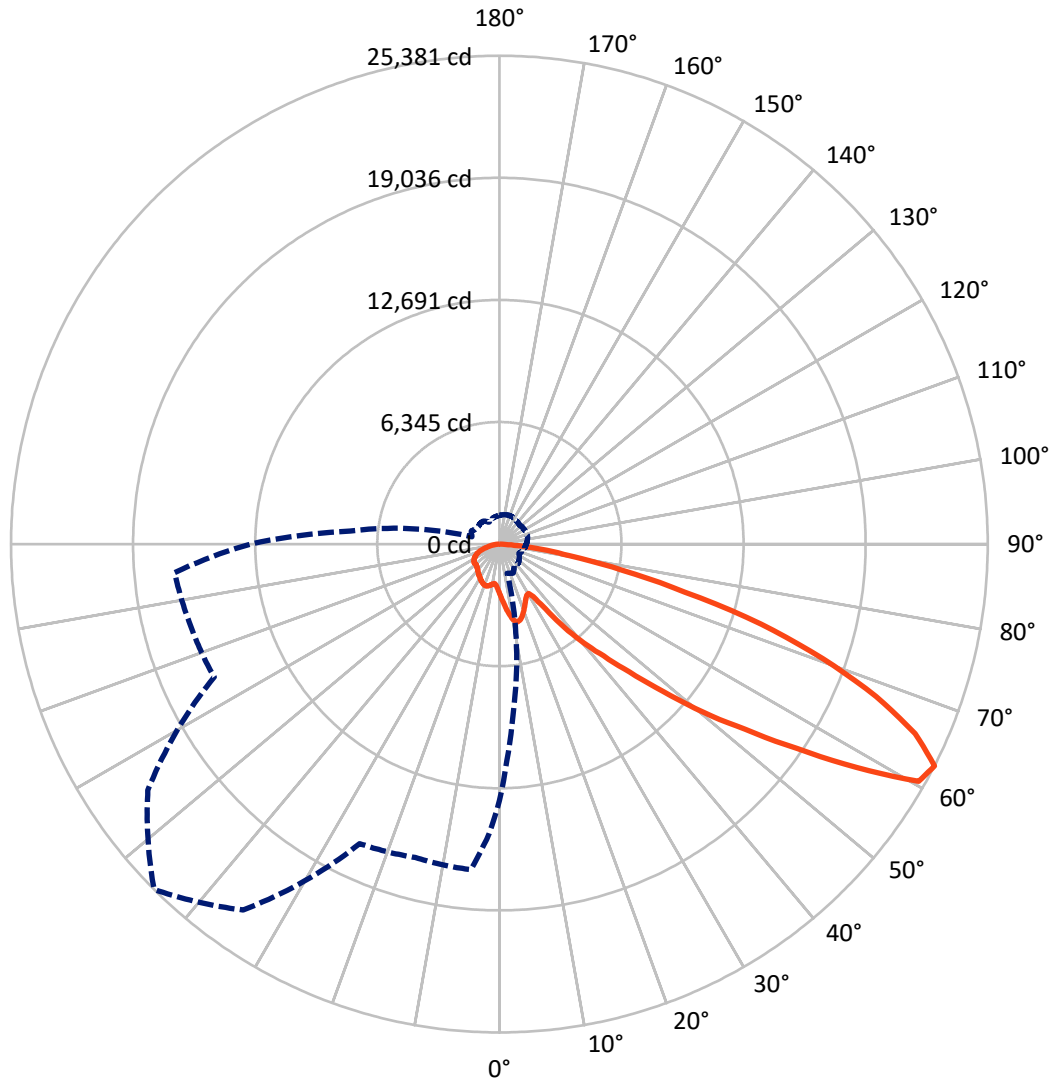
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4972.0	0.0	4972.0
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	15822.7	0.0	15822.7
	% Fixture	76.1	0.0	76.1
Total	Lumens	20794.7	0.0	20794.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.4	1.2
10°-20°	830.1	4.0
20°-30°	1306.8	6.3
30°-40°	1791.2	8.6
40°-50°	2794.8	13.4
50°-60°	4818.8	23.2
60°-70°	5584.3	26.9
70°-80°	2947.7	14.2
80°-90°	465.6	2.2
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°	20794.7	100.0
0°-180°	20794.7	100.0

Coefficient of Utilization



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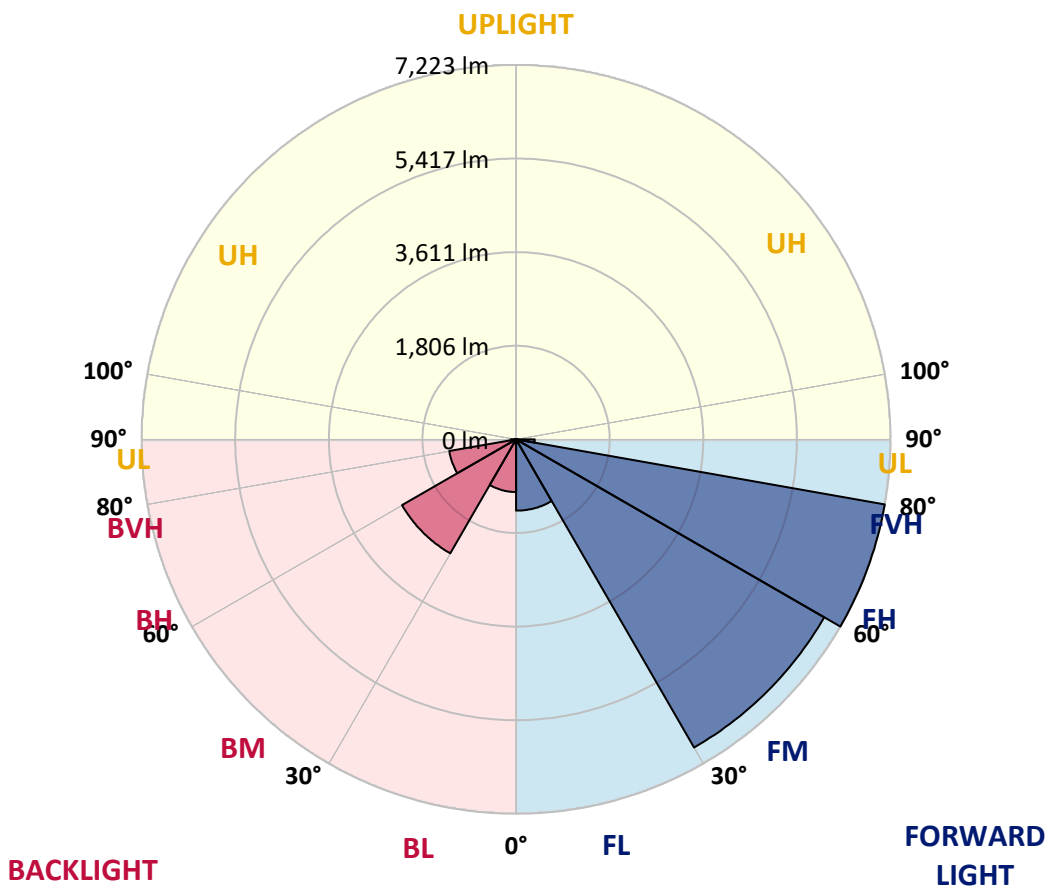
CATALOG NUMBER: GWS-SA3E-760-U-SLL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1375.3	6.6			
FM (30°-60°)	6865.1	33.0			
FH (60°-80°)	7222.9	34.7			G3/7500
FVH (80°-90°)	359.4	1.7			G3/500
BL (0°-30°)	1017.0	4.9	B3/2500		
BM (30°-60°)	2539.7	12.2	B3/5000		
BH (60°-80°)	1309.2	6.3	B3/2500		G3/2500
BVH (80°-90°)	106.2	0.5			G2/225
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°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2592.7	2592.7	2592.7	2592.7	2592.7	2592.7	2592.7	2592.7	2592.7	2592.7	2592.7
2.5°	2816.9	2805.8	2789.9	2735.8	2702.4	2664.2	2624.5	2578.4	2525.9	2489.3	2452.7
5°	3055.5	3038.0	2999.9	2871.0	2781.9	2684.9	2603.8	2511.5	2420.9	2358.9	2296.8
7.5°	3284.6	3262.3	3203.5	3006.2	2861.5	2721.5	2599.0	2465.4	2330.2	2238.0	2164.8
10°	3513.6	3467.5	3392.7	3135.1	2944.2	2781.9	2642.0	2478.1	2298.4	2172.8	2094.8
12.5°	3688.6	3645.6	3564.5	3252.8	3026.9	2823.3	2665.8	2514.7	2362.0	2228.4	2148.9
15°	3852.4	3796.7	3704.5	3362.5	3095.3	2821.7	2618.1	2486.1	2463.8	2430.4	2327.0
17.5°	3970.1	3919.2	3823.8	3451.6	3133.5	2772.4	2486.1	2408.2	2508.4	2610.2	2511.5
20°	4073.5	4014.7	3917.6	3513.6	3141.4	2662.7	2325.4	2327.0	2484.5	2624.5	2600.6
22.5°	4161.0	4095.8	4009.9	3583.6	3138.2	2510.0	2185.5	2280.9	2438.4	2548.1	2551.3
25°	4269.2	4215.1	4143.5	3687.0	3138.2	2354.1	2083.7	2225.2	2360.4	2452.7	2449.5
27.5°	4401.2	4364.6	4305.7	3844.5	3166.9	2223.7	2026.4	2153.7	2260.2	2339.8	2338.2
30°	4549.1	4515.7	4471.2	4011.5	3216.2	2126.6	1994.6	2064.6	2142.5	2206.2	2206.2
32.5°	4700.2	4687.5	4639.8	4145.1	3178.0	2096.4	1967.6	1975.5	2016.9	2069.4	2064.6
35°	4910.2	4897.4	4837.0	4248.5	3012.6	2053.5	1924.6	1884.9	1889.6	1923.0	1934.2
37.5°	5217.1	5198.1	5109.0	4369.4	2762.9	1945.3	1854.6	1789.4	1775.1	1789.4	1810.1
40°	5587.8	5559.1	5438.2	4533.2	2475.0	1799.0	1744.9	1690.8	1666.9	1671.7	1695.6
42.5°	6052.2	5991.8	5818.4	4706.6	2190.2	1670.1	1622.4	1589.0	1562.0	1558.8	1604.9
45°	6806.2	6640.7	6365.6	4860.9	1950.1	1601.7	1512.7	1488.8	1466.5	1479.3	1533.3
47.5°	8123.2	7817.8	7281.7	4992.9	1803.7	1603.3	1425.2	1399.7	1398.1	1423.6	1484.0
50°	9933.3	9492.7	8665.6	5081.9	1727.4	1622.4	1372.7	1331.3	1361.5	1387.0	1444.3
52.5°	11667.0	10994.2	10009.6	5080.4	1694.0	1625.6	1387.0	1267.7	1361.5	1367.9	1422.0
55°	13147.9	11929.5	10372.3	4558.6	1646.3	1612.9	1442.7	1218.4	1344.1	1367.9	1410.9
57.5°	14324.9	12524.3	10345.2	3682.2	1791.0	1542.9	1476.1	1207.3	1293.2	1371.1	1420.4
60°	14194.5	12252.3	9678.8	2260.2	1776.7	1418.8	1471.3	1227.9	1207.3	1328.1	1409.3
62.5°	13327.6	11277.3	8531.9	1568.3	1668.5	1347.2	1393.4	1264.5	1127.7	1266.1	1355.2
65°	12114.0	10019.2	7110.0	1202.5	1382.2	1350.4	1261.3	1239.1	1057.7	1167.5	1262.9
67.5°	10509.1	8458.8	5613.2	952.8	963.9	1169.1	1145.2	1100.7	992.5	1080.0	1165.9
70°	7900.5	6173.1	3862.0	766.7	730.1	976.6	1029.1	989.3	928.9	954.4	1045.0
72.5°	5567.1	4030.6	2115.5	607.6	563.1	750.8	893.9	887.6	820.7	839.8	928.9
75°	4137.1	2851.9	1321.8	480.4	458.1	537.6	749.2	768.3	712.6	734.9	803.3
77.5°	2753.3	1846.7	734.9	356.3	356.3	392.9	558.3	647.4	606.0	623.5	671.2
80°	1519.0	940.0	367.4	233.8	240.2	270.4	407.2	466.0	467.6	510.6	523.3
82.5°	480.4	299.0	163.8	136.8	128.8	154.3	262.4	334.0	311.8	397.6	365.8
85°	109.8	70.0	30.2	30.2	33.4	50.9	100.2	178.1	227.5	273.6	198.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	70.0	103.4	92.3
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°	2592.7	2592.7	2592.7	2592.7	2592.7	2592.7	2592.7	2592.7	2592.7	2592.7	2592.7
2.5°	2430.4	2398.6	2389.1	2362.0	2358.9	2333.4	2323.9	2323.9	2335.0	2335.0	2346.1
5°	2271.4	2231.6	2209.3	2177.5	2169.6	2150.5	2137.8	2139.3	2153.7	2163.2	2182.3
7.5°	2131.4	2104.4	2088.5	2074.1	2071.0	2067.8	2053.5	2051.9	2056.6	2071.0	2085.3
10°	2072.5	2053.5	2058.2	2069.4	2086.9	2096.4	2083.7	2077.3	2072.5	2082.1	2094.8
12.5°	2129.8	2110.7	2120.3	2139.3	2163.2	2172.8	2168.0	2166.4	2171.2	2207.7	2234.8
15°	2255.5	2218.9	2206.2	2214.1	2233.2	2242.7	2238.0	2244.3	2274.5	2370.0	2438.4
17.5°	2411.3	2322.3	2271.4	2257.1	2265.0	2273.0	2273.0	2288.9	2341.4	2481.3	2567.2
20°	2495.6	2379.5	2293.6	2258.6	2261.8	2269.8	2269.8	2292.0	2350.9	2500.4	2556.1
22.5°	2473.4	2366.8	2261.8	2223.7	2225.2	2231.6	2231.6	2250.7	2303.2	2435.2	2460.6
25°	2385.9	2292.0	2188.7	2155.3	2158.4	2169.6	2166.4	2177.5	2217.3	2325.4	2339.8
27.5°	2280.9	2198.2	2096.4	2071.0	2085.3	2107.5	2088.5	2090.0	2126.6	2217.3	2218.9
30°	2168.0	2099.6	2008.9	1989.8	2016.9	2028.0	2010.5	2010.5	2047.1	2109.1	2107.5
32.5°	2045.5	2002.6	1937.3	1916.7	1946.9	1964.4	1942.1	1945.3	1973.9	2015.3	1999.4
35°	1931.0	1908.7	1878.5	1864.2	1883.3	1899.2	1884.9	1891.2	1918.3	1929.4	1907.1
37.5°	1821.2	1818.0	1821.2	1821.2	1826.0	1830.8	1821.2	1837.1	1861.0	1846.7	1821.2
40°	1725.8	1738.5	1768.7	1760.8	1756.0	1760.8	1754.4	1781.5	1805.3	1779.9	1749.7
42.5°	1646.3	1670.1	1716.3	1716.3	1706.7	1709.9	1706.7	1740.1	1757.6	1722.6	1689.2
45°	1577.9	1612.9	1671.7	1679.7	1663.8	1663.8	1670.1	1711.5	1717.8	1670.1	1635.1
47.5°	1530.2	1573.1	1639.9	1654.2	1630.4	1628.8	1646.3	1690.8	1690.8	1635.1	1595.4
50°	1496.7	1544.5	1624.0	1643.1	1619.2	1612.9	1641.5	1684.4	1674.9	1608.1	1568.3
52.5°	1474.5	1523.8	1622.4	1649.4	1633.5	1627.2	1655.8	1686.0	1662.2	1590.6	1549.2
55°	1460.2	1514.2	1627.2	1649.4	1631.9	1620.8	1649.4	1676.5	1663.8	1581.1	1541.3
57.5°	1468.1	1522.2	1620.8	1631.9	1611.3	1592.2	1625.6	1663.8	1659.0	1584.2	1544.5
60°	1455.4	1504.7	1585.8	1589.0	1554.0	1523.8	1573.1	1630.4	1630.4	1573.1	1538.1
62.5°	1396.5	1445.9	1517.4	1520.6	1480.8	1447.4	1504.7	1573.1	1571.5	1525.4	1488.8
65°	1299.5	1345.6	1426.8	1434.7	1395.0	1360.0	1418.8	1482.4	1487.2	1445.9	1414.0
67.5°	1192.9	1234.3	1294.7	1326.6	1293.2	1256.6	1310.6	1371.1	1369.5	1320.2	1286.8
70°	1065.7	1103.9	1159.5	1186.6	1165.9	1130.9	1180.2	1212.0	1197.7	1173.9	1151.6
72.5°	940.0	976.6	1029.1	1029.1	1006.8	973.4	987.8	1045.0	1062.5	1045.0	1030.7
75°	808.0	839.8	876.4	884.4	835.1	774.6	841.4	890.7	911.4	903.5	886.0
77.5°	672.8	696.7	750.8	736.4	644.2	612.4	666.5	739.6	753.9	749.2	725.3
80°	518.5	532.8	590.1	561.5	489.9	469.2	493.1	550.3	553.5	537.6	507.4
82.5°	348.3	367.4	405.6	349.9	348.3	329.3	310.2	316.5	345.2	342.0	321.3
85°	178.1	187.7	224.3	210.0	179.7	155.9	147.9	157.5	141.6	128.8	111.3
87.5°	74.8	81.1	111.3	62.0	19.1	0.0	0.0	9.5	14.3	20.7	22.3
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°	2592.7	2592.7	2592.7	2592.7	2592.7	2592.7	2592.7	2592.7	2592.7	2592.7	2592.7
2.5°	2371.6	2389.1	2432.0	2486.1	2538.6	2592.7	2651.5	2688.1	2732.6	2789.9	2791.5
5°	2206.2	2245.9	2308.0	2390.7	2476.6	2575.2	2689.7	2785.1	2899.7	2990.3	3026.9
7.5°	2104.4	2161.6	2239.6	2344.5	2457.5	2579.9	2729.5	2890.1	3077.8	3198.7	3270.3
10°	2113.9	2201.4	2279.3	2368.4	2470.2	2602.2	2794.7	3007.8	3238.4	3397.5	3486.6
12.5°	2284.1	2376.3	2362.0	2357.3	2425.7	2586.3	2847.2	3127.1	3408.6	3567.7	3674.3
15°	2498.8	2533.8	2398.6	2296.8	2338.2	2529.0	2875.8	3233.7	3550.2	3744.3	3849.2
17.5°	2608.6	2538.6	2374.8	2222.1	2210.9	2441.6	2890.1	3341.8	3709.3	3903.3	4014.7
20°	2557.7	2455.9	2317.5	2172.8	2093.2	2322.3	2882.2	3427.7	3854.0	4070.3	4161.0
22.5°	2447.9	2358.9	2250.7	2112.3	1997.8	2191.8	2861.5	3513.6	3982.8	4200.8	4280.3
25°	2328.6	2261.8	2172.8	2051.9	1943.7	2077.3	2847.2	3628.1	4130.8	4339.1	4390.0
27.5°	2209.3	2160.0	2086.9	1993.0	1931.0	1997.8	2851.9	3777.7	4321.6	4518.9	4498.2
30°	2091.6	2048.7	1997.8	1956.4	1929.4	1978.7	2839.2	3936.7	4531.6	4714.5	4592.0
32.5°	1980.3	1940.5	1908.7	1915.1	1931.0	1986.7	2774.0	4081.5	4724.1	4879.9	4693.8
35°	1884.9	1843.5	1843.5	1865.8	1924.6	1959.6	2605.4	4194.4	4937.2	5093.1	4838.6
37.5°	1795.8	1759.2	1783.1	1819.6	1875.3	1886.4	2389.1	4304.1	5247.4	5393.7	5062.9
40°	1717.8	1681.3	1724.2	1770.3	1799.0	1794.2	2169.6	4456.8	5613.2	5764.3	5360.3
42.5°	1655.8	1622.4	1660.6	1719.4	1724.2	1729.0	2008.9	4603.2	6037.9	6230.4	5872.5
45°	1604.9	1581.1	1600.1	1659.0	1659.0	1732.2	1908.7	4725.7	6677.3	7017.7	6812.5
47.5°	1565.1	1550.8	1560.4	1579.5	1611.3	1789.4	1845.1	4819.5	7841.6	8509.7	8302.9
50°	1542.9	1528.6	1541.3	1501.5	1597.0	1818.0	1824.4	4891.1	9376.6	10423.2	10167.1
52.5°	1523.8	1519.0	1527.0	1434.7	1628.8	1799.0	1808.5	4795.6	10405.7	12306.4	12559.3
55°	1517.4	1520.6	1482.4	1385.4	1666.9	1735.3	1760.8	4113.3	10685.6	13930.4	15500.3
57.5°	1520.6	1511.1	1414.0	1390.2	1668.5	1608.1	1829.2	2934.6	10278.4	14636.6	18377.7
60°	1509.5	1461.8	1331.3	1433.1	1595.4	1458.6	1779.9	1913.5	9204.8	14094.3	18544.7
62.5°	1460.2	1390.2	1259.8	1457.0	1464.9	1369.5	1616.0	1474.5	7773.2	12933.1	16935.1
65°	1388.6	1294.7	1199.3	1407.7	1332.9	1328.1	1215.2	1181.8	6251.0	11550.9	15408.1
67.5°	1270.9	1177.0	1154.8	1294.7	1199.3	1177.0	976.6	979.8	4988.1	10078.0	13873.2
70°	1137.3	1043.4	1060.9	1170.7	1067.3	978.2	790.5	816.0	3784.0	8396.7	11803.8
72.5°	1049.8	924.1	925.7	1030.7	938.5	792.1	650.6	672.8	2401.8	6329.0	9384.5
75°	886.0	814.4	779.4	835.1	796.9	617.2	547.2	542.4	1423.6	4536.4	7027.2
77.5°	739.6	684.0	666.5	688.7	594.9	456.5	440.6	432.6	806.4	2906.0	4604.8
80°	536.0	521.7	520.1	531.3	458.1	335.6	335.6	337.2	434.2	1577.9	2595.8
82.5°	340.4	372.2	329.3	365.8	311.8	238.6	222.7	252.9	249.7	672.8	1094.3
85°	141.6	194.1	181.3	192.5	147.9	130.4	140.0	151.1	144.7	259.3	426.3
87.5°	27.0	31.8	35.0	33.4	33.4	41.4	46.1	55.7	55.7	74.8	128.8
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°	358°	360°
0°	2592.7	2592.7	2592.7	2592.7	2592.7	2592.7	2592.7	2592.7	2592.7	2592.7
2.5°	2851.9	2898.1	2888.5	2909.2	2882.2	2891.7	2837.6	2823.3	2813.8	2816.9
5°	3144.6	3238.4	3255.9	3290.9	3267.1	3267.1	3171.6	3100.1	3074.6	3055.5
7.5°	3442.0	3577.2	3666.3	3675.9	3663.1	3637.7	3499.3	3370.5	3324.3	3284.6
10°	3706.1	3868.3	3968.5	4016.3	3992.4	3952.6	3780.8	3604.3	3548.6	3513.6
12.5°	3908.1	4051.2	4118.0	4149.9	4146.7	4132.4	3992.4	3801.5	3742.7	3688.6
15°	4038.5	4110.1	4084.6	4083.1	4105.3	4162.6	4119.6	3970.1	3901.7	3852.4
17.5°	4122.8	4054.4	3941.5	3889.0	3936.7	4071.9	4170.5	4086.2	4024.2	3970.1
20°	4153.0	3909.7	3745.8	3648.8	3704.5	3900.1	4143.5	4170.5	4118.0	4073.5
22.5°	4118.0	3733.1	3510.4	3395.9	3450.0	3683.8	4064.0	4238.9	4203.9	4161.0
25°	4032.2	3548.6	3281.4	3178.0	3236.9	3475.4	3922.4	4302.6	4304.1	4269.2
27.5°	3925.6	3378.4	3120.7	3023.7	3081.0	3303.7	3784.0	4358.2	4413.9	4401.2
30°	3817.4	3276.6	3044.4	2976.0	3018.9	3216.2	3642.5	4415.5	4526.8	4549.1
32.5°	3768.1	3325.9	3224.1	3254.4	3198.7	3267.1	3591.6	4496.6	4663.6	4700.2
35°	3833.3	3763.3	4021.0	4140.3	3943.1	3683.8	3656.8	4619.1	4856.1	4910.2
37.5°	4149.9	4700.2	5085.1	5505.0	5163.1	4592.0	3979.7	4827.5	5131.3	5217.1
40°	4838.6	5517.8	6212.9	6755.3	6238.3	5470.1	4593.6	5137.6	5509.8	5587.8
42.5°	5487.5	6284.4	7242.0	7943.4	7272.2	6187.4	5255.3	5659.3	6009.3	6052.2
45°	6123.8	7036.8	8487.4	9462.4	8551.0	6869.8	5931.3	6540.5	6804.6	6806.2
47.5°	6869.8	7884.6	10049.4	11438.0	10248.2	7625.3	6566.0	7935.5	8302.9	8123.2
50°	7762.1	8727.6	11657.5	13736.4	12317.6	8554.2	7372.4	9635.8	10136.9	9933.3
52.5°	8956.6	9656.5	13429.4	15977.5	14573.0	9612.0	8541.5	11881.7	12047.2	11667.0
55°	10637.9	10997.4	15703.9	18745.2	17090.9	10914.7	10251.4	14700.3	14237.4	13147.9
57.5°	14466.5	13119.2	18624.3	21902.5	19939.7	13281.5	13998.8	17808.3	16162.0	14324.9
60°	17669.9	15696.0	21326.7	25036.0	22381.3	15890.0	17517.2	18349.1	16090.5	14194.5
62.5°	16589.9	16352.9	22301.7	25381.1	23214.7	17173.6	16863.5	16986.0	15040.7	13327.6
65°	14555.5	15085.2	21431.7	23744.4	22290.6	16023.6	15253.8	15726.2	13839.8	12114.0
67.5°	13354.6	13744.3	19884.0	21124.7	20610.9	14779.8	14002.0	13660.0	11975.6	10509.1
70°	12126.7	12449.6	17711.3	17836.9	17991.2	12712.0	11449.1	10431.1	8926.4	7900.5
72.5°	10478.8	10496.3	14964.3	14235.8	14528.5	9947.6	9215.9	7798.7	6497.6	5567.1
75°	8791.2	8310.9	11845.2	9950.8	10537.7	7738.2	7652.3	5877.2	4900.6	4137.1
77.5°	6702.8	6141.3	8652.8	6543.7	7401.0	5153.5	5753.2	3986.0	3448.4	2753.3
80°	4499.8	4149.9	4781.3	3693.4	4841.8	3551.8	3752.2	2258.6	1958.0	1519.0
82.5°	2373.2	2026.4	2955.3	2190.2	2920.3	1951.7	1407.7	698.3	594.9	480.4
85°	919.4	1064.1	1449.0	779.4	1132.5	696.7	407.2	173.4	144.7	109.8
87.5°	178.1	275.2	151.1	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

(END OF REPORT)