

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: P638042

Luminaire Tested: GWS-SA4E-722-U-SLL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638042
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-SA4E-722-U-SLL-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21127 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

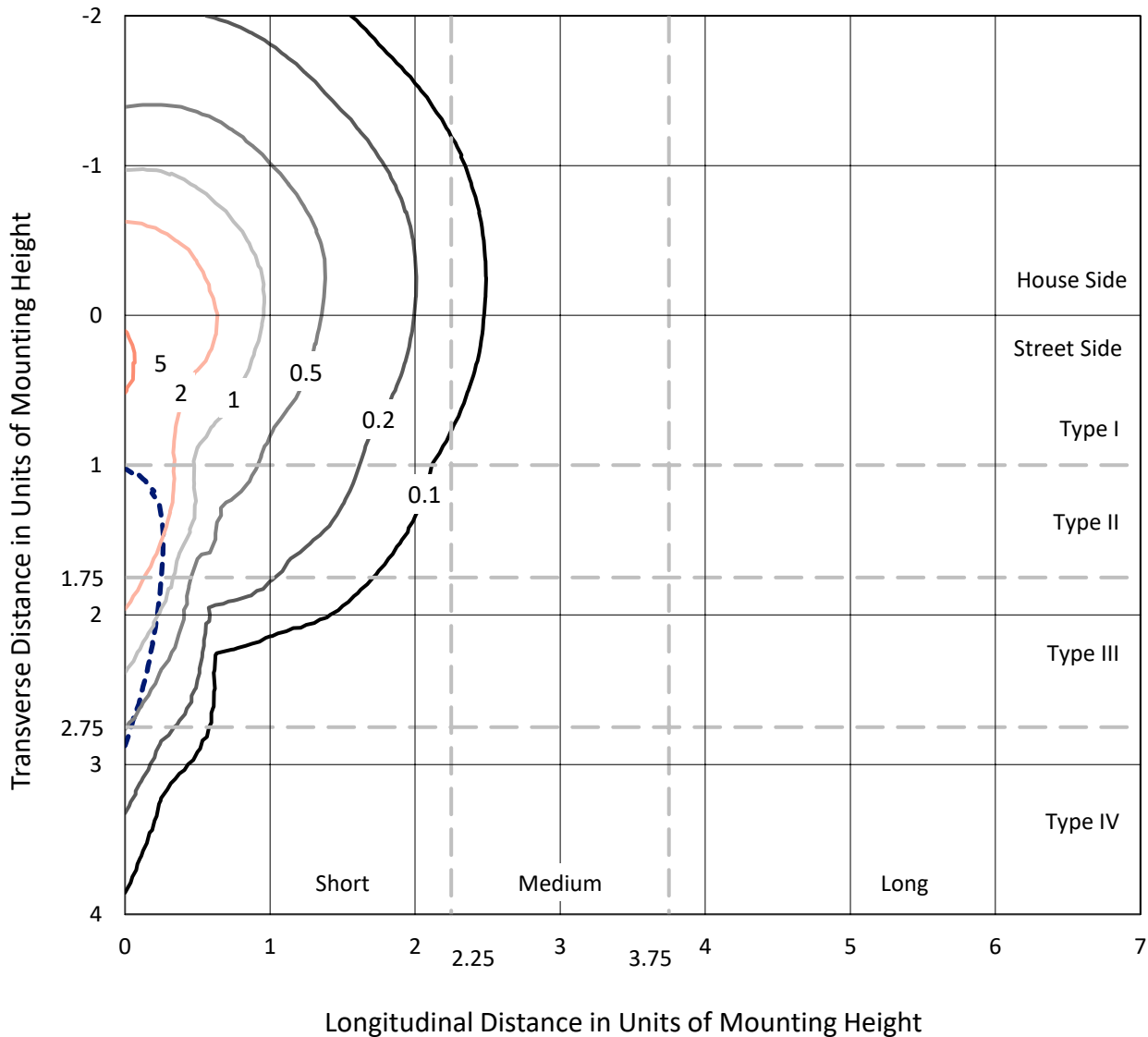
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

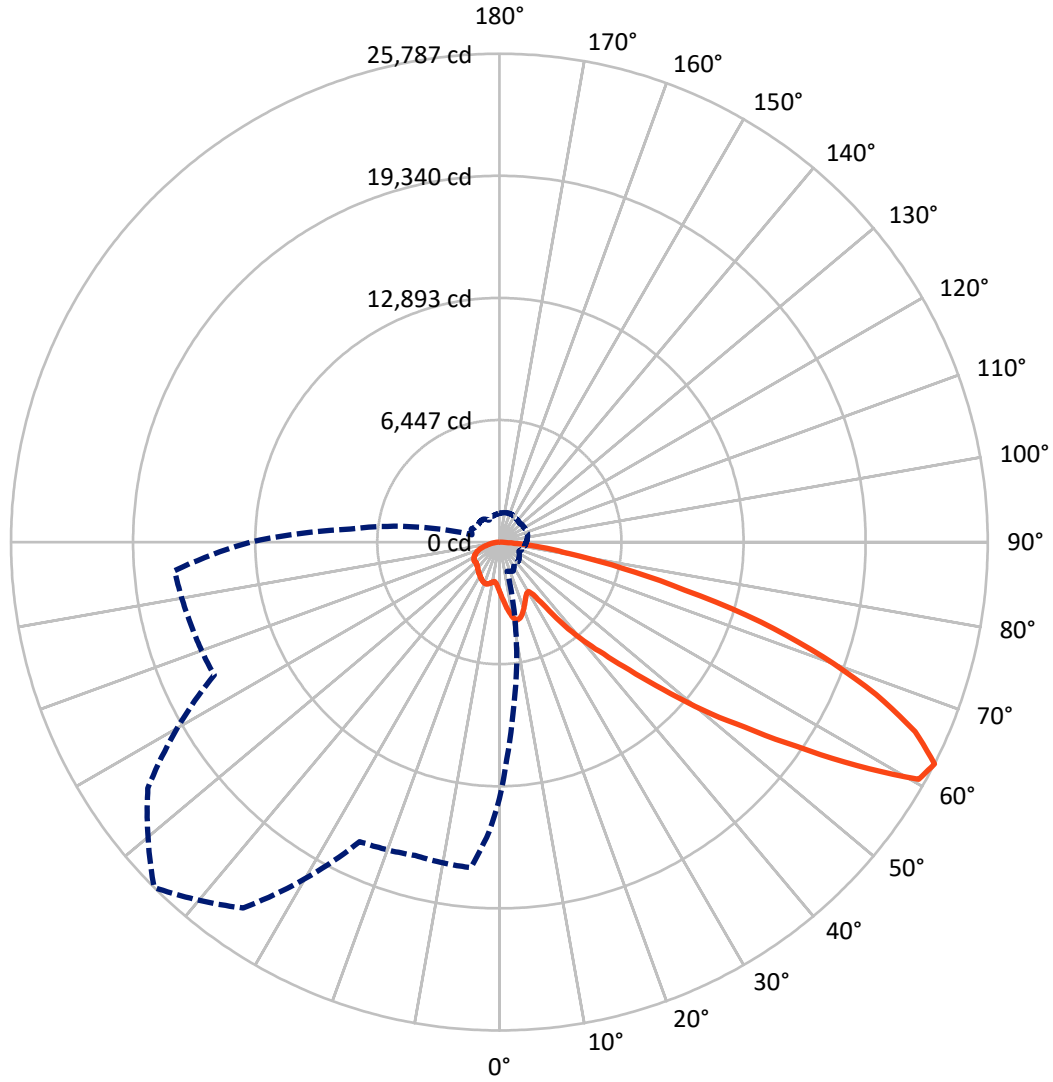
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	5051.5	0.0	5051.5
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	16075.5	0.0	16075.5
	% Fixture	76.1	0.0	76.1
Total	Lumens	21127.0	0.0	21127.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.5	1.2
10°-20°	843.4	4.0
20°-30°	1327.6	6.3
30°-40°	1819.8	8.6
40°-50°	2839.5	13.4
50°-60°	4895.8	23.2
60°-70°	5673.6	26.9
70°-80°	2994.8	14.2
80°-90°	473.1	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°	21127.0	100.0
0°-180°	21127.0	100.0

Coefficient of Utilization



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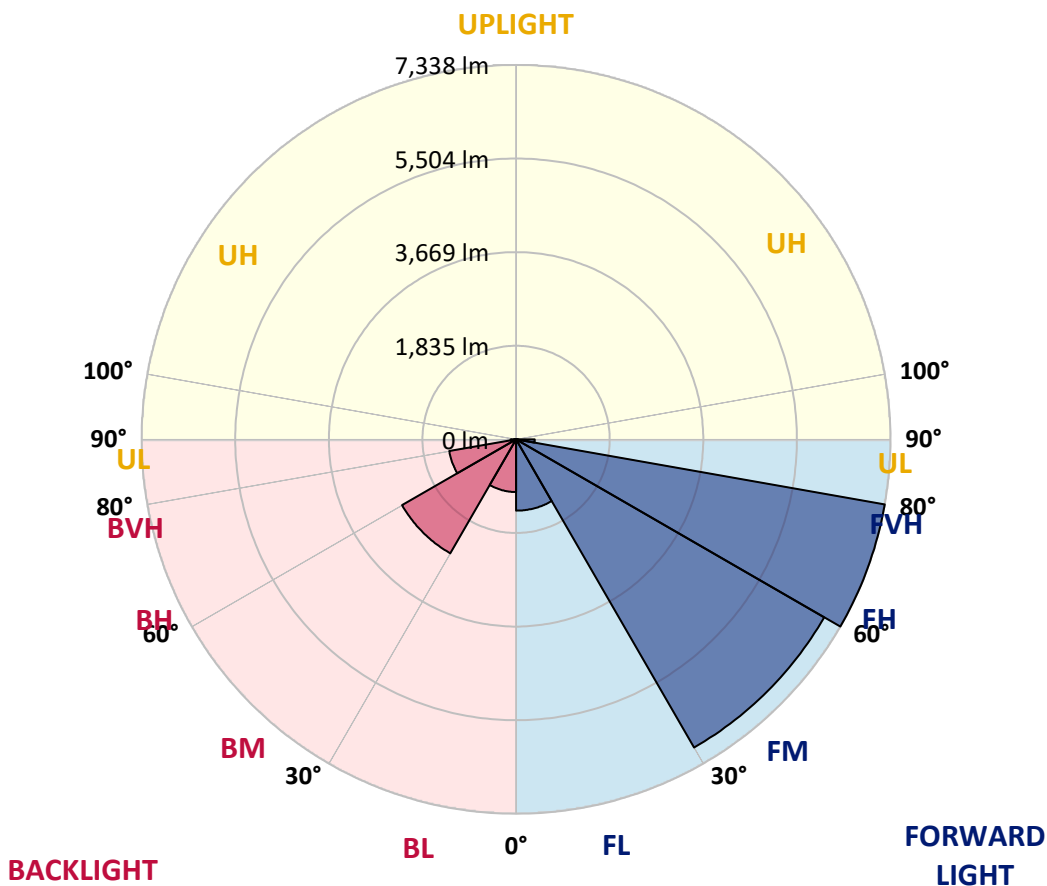
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1397.3	6.6			
FM (30°-60°)	6974.8	33.0			
FH (60°-80°)	7338.3	34.7			G3/7500
FVH (80°-90°)	365.1	1.7			G3/500
BL (0°-30°)	1033.2	4.9	B3/2500		
BM (30°-60°)	2580.3	12.2	B3/5000		
BH (60°-80°)	1330.1	6.3	B3/2500		G3/2500
BVH (80°-90°)	107.9	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°	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1
2.5°	2862.0	2850.6	2834.5	2779.5	2745.6	2706.8	2666.4	2619.6	2566.2	2529.1	2491.9
5°	3104.4	3086.6	3047.8	2916.9	2826.4	2727.8	2645.4	2551.7	2459.6	2396.5	2333.5
7.5°	3337.1	3314.4	3254.6	3054.3	2907.2	2765.0	2640.6	2504.8	2367.5	2273.7	2199.4
10°	3569.8	3522.9	3447.0	3185.2	2991.2	2826.4	2684.2	2517.7	2335.1	2207.5	2128.3
12.5°	3747.5	3703.9	3621.5	3304.7	3075.3	2868.4	2708.4	2554.9	2399.8	2264.0	2183.2
15°	3914.0	3857.4	3763.7	3416.2	3144.8	2866.8	2660.0	2525.8	2503.2	2469.3	2364.2
17.5°	4033.6	3981.9	3884.9	3506.7	3183.5	2816.7	2525.8	2446.6	2548.5	2651.9	2551.7
20°	4138.6	4078.8	3980.2	3569.8	3191.6	2705.2	2362.6	2364.2	2524.2	2666.4	2642.2
22.5°	4227.5	4161.2	4074.0	3640.9	3188.4	2550.1	2220.4	2317.4	2477.3	2588.9	2592.1
25°	4337.4	4282.4	4209.7	3745.9	3188.4	2391.7	2117.0	2260.8	2398.2	2491.9	2488.7
27.5°	4471.5	4434.3	4374.5	3905.9	3217.5	2259.2	2058.8	2188.1	2296.4	2377.2	2375.5
30°	4621.8	4587.9	4542.6	4075.6	3267.6	2160.6	2026.5	2097.6	2176.8	2241.4	2241.4
32.5°	4775.3	4762.4	4713.9	4211.3	3228.8	2129.9	1999.0	2007.1	2049.1	2102.4	2097.6
35°	4988.6	4975.7	4914.3	4316.4	3060.7	2086.3	1955.4	1915.0	1919.8	1953.8	1965.1
37.5°	5300.5	5281.1	5190.6	4439.2	2807.0	1976.4	1884.3	1818.0	1803.5	1818.0	1839.0
40°	5677.0	5648.0	5525.1	4605.6	2514.5	1827.7	1772.8	1717.8	1693.6	1698.4	1722.7
42.5°	6148.9	6087.5	5911.4	4781.8	2225.2	1696.8	1648.3	1614.4	1586.9	1583.7	1630.6
45°	6914.9	6746.8	6467.3	4938.5	1981.2	1627.3	1536.8	1512.6	1490.0	1502.9	1557.8
47.5°	8253.0	7942.7	7398.1	5072.7	1832.6	1628.9	1447.9	1422.1	1420.5	1446.3	1507.7
50°	10092.0	9644.4	8804.0	5163.2	1755.0	1648.3	1394.6	1352.6	1383.3	1409.2	1467.3
52.5°	11853.4	11169.9	10169.6	5161.5	1721.1	1651.6	1409.2	1288.0	1383.3	1389.8	1444.7
55°	13358.0	12120.1	10538.0	4631.5	1672.6	1638.6	1465.7	1237.9	1365.5	1389.8	1433.4
57.5°	14553.8	12724.5	10510.5	3741.1	1819.6	1567.5	1499.7	1226.6	1313.8	1393.0	1443.1
60°	14421.3	12448.1	9833.4	2296.4	1805.1	1441.5	1494.8	1247.6	1226.6	1349.4	1431.8
62.5°	13540.6	11457.5	8668.3	1593.4	1695.2	1368.8	1415.6	1284.7	1145.8	1286.3	1376.8
65°	12307.5	10179.3	7223.6	1221.7	1404.3	1372.0	1281.5	1258.9	1074.6	1186.2	1283.1
67.5°	10677.0	8594.0	5702.9	968.0	979.3	1187.8	1163.5	1118.3	1008.4	1097.3	1184.5
70°	8026.7	6271.7	3923.7	778.9	741.7	992.2	1045.6	1005.2	943.8	969.6	1061.7
72.5°	5656.0	4095.0	2149.3	617.3	572.1	762.8	908.2	901.7	833.9	853.3	943.8
75°	4203.2	2897.5	1342.9	488.0	465.4	546.2	761.1	780.5	724.0	746.6	816.1
77.5°	2797.3	1876.2	746.6	362.0	362.0	399.2	567.2	657.7	615.7	633.5	682.0
80°	1543.3	955.1	373.3	237.6	244.0	274.7	413.7	473.5	475.1	518.7	531.7
82.5°	488.0	303.8	166.4	139.0	130.9	156.8	266.6	339.4	316.7	404.0	371.7
85°	111.5	71.1	30.7	30.7	33.9	51.7	101.8	181.0	231.1	278.0	202.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	71.1	105.0	93.7
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°	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1
2.5°	2469.3	2436.9	2427.2	2399.8	2396.5	2370.7	2361.0	2361.0	2372.3	2372.3	2383.6
5°	2307.7	2267.3	2244.6	2212.3	2204.2	2184.8	2171.9	2173.5	2188.1	2197.8	2217.2
7.5°	2165.5	2138.0	2121.8	2107.3	2104.0	2100.8	2086.3	2084.7	2089.5	2104.0	2118.6
10°	2105.7	2086.3	2091.1	2102.4	2120.2	2129.9	2117.0	2110.5	2105.7	2115.4	2128.3
12.5°	2163.8	2144.4	2154.1	2173.5	2197.8	2207.5	2202.6	2201.0	2205.9	2243.0	2270.5
15°	2291.5	2254.3	2241.4	2249.5	2268.9	2278.6	2273.7	2280.2	2310.9	2407.9	2477.3
17.5°	2449.9	2359.4	2307.7	2293.1	2301.2	2309.3	2309.3	2325.4	2378.8	2521.0	2608.2
20°	2535.5	2417.6	2330.3	2294.7	2298.0	2306.0	2306.0	2328.7	2388.5	2540.4	2596.9
22.5°	2512.9	2404.6	2298.0	2259.2	2260.8	2267.3	2267.3	2286.7	2340.0	2474.1	2500.0
25°	2424.0	2328.7	2223.6	2189.7	2192.9	2204.2	2201.0	2212.3	2252.7	2362.6	2377.2
27.5°	2317.4	2233.3	2129.9	2104.0	2118.6	2141.2	2121.8	2123.4	2160.6	2252.7	2254.3
30°	2202.6	2133.1	2041.0	2021.6	2049.1	2060.4	2042.6	2042.6	2079.8	2142.8	2141.2
32.5°	2078.2	2034.6	1968.3	1947.3	1978.0	1995.8	1973.2	1976.4	2005.5	2047.5	2031.3
35°	1961.8	1939.2	1908.5	1894.0	1913.4	1929.5	1915.0	1921.4	1948.9	1960.2	1937.6
37.5°	1850.3	1847.1	1850.3	1850.3	1855.2	1860.0	1850.3	1866.5	1890.7	1876.2	1850.3
40°	1753.4	1766.3	1797.0	1788.9	1784.1	1788.9	1782.5	1809.9	1834.2	1808.3	1777.6
42.5°	1672.6	1696.8	1743.7	1743.7	1734.0	1737.2	1734.0	1767.9	1785.7	1750.1	1716.2
45°	1603.1	1638.6	1698.4	1706.5	1690.3	1690.3	1696.8	1738.8	1745.3	1696.8	1661.3
47.5°	1554.6	1598.2	1666.1	1680.7	1656.4	1654.8	1672.6	1717.8	1717.8	1661.3	1620.9
50°	1520.7	1569.1	1649.9	1669.3	1645.1	1638.6	1667.7	1711.4	1701.7	1633.8	1593.4
52.5°	1498.0	1548.1	1648.3	1675.8	1659.6	1653.2	1682.3	1713.0	1688.7	1616.0	1574.0
55°	1483.5	1538.4	1653.2	1675.8	1658.0	1646.7	1675.8	1703.3	1690.3	1606.3	1565.9
57.5°	1491.6	1546.5	1646.7	1658.0	1637.0	1617.6	1651.6	1690.3	1685.5	1609.5	1569.1
60°	1478.7	1528.7	1611.2	1614.4	1578.8	1548.1	1598.2	1656.4	1656.4	1598.2	1562.7
62.5°	1418.9	1469.0	1541.7	1544.9	1504.5	1470.6	1528.7	1598.2	1596.6	1549.8	1512.6
65°	1320.3	1367.1	1449.6	1457.6	1417.2	1381.7	1441.5	1506.1	1511.0	1469.0	1436.6
67.5°	1212.0	1254.0	1315.4	1347.8	1313.8	1276.6	1331.6	1393.0	1391.4	1341.3	1307.4
70°	1082.7	1121.5	1178.1	1205.5	1184.5	1149.0	1199.1	1231.4	1216.9	1192.6	1170.0
72.5°	955.1	992.2	1045.6	1045.6	1022.9	989.0	1003.5	1061.7	1079.5	1061.7	1047.2
75°	820.9	853.3	890.4	898.5	848.4	787.0	854.9	905.0	926.0	917.9	900.1
77.5°	683.6	707.8	762.8	748.2	654.5	622.2	677.1	751.4	766.0	761.1	736.9
80°	526.8	541.4	599.5	570.5	497.7	476.7	501.0	559.1	562.4	546.2	515.5
82.5°	353.9	373.3	412.1	355.5	353.9	334.5	315.1	321.6	350.7	347.4	326.4
85°	181.0	190.7	227.9	213.3	182.6	158.4	150.3	160.0	143.8	130.9	113.1
87.5°	76.0	82.4	113.1	63.0	19.4	0.0	0.0	9.7	14.5	21.0	22.6
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°	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1
2.5°	2409.5	2427.2	2470.9	2525.8	2579.2	2634.1	2693.9	2731.1	2776.3	2834.5	2836.1
5°	2241.4	2281.8	2344.8	2428.9	2516.1	2616.3	2732.7	2829.6	2946.0	3038.1	3075.3
7.5°	2138.0	2196.2	2275.3	2382.0	2496.7	2621.2	2773.1	2936.3	3127.0	3249.8	3322.5
10°	2147.7	2236.6	2315.7	2406.2	2509.7	2643.8	2839.3	3055.9	3290.2	3451.8	3542.3
12.5°	2320.6	2414.3	2399.8	2394.9	2464.4	2627.6	2892.7	3177.1	3463.1	3624.7	3733.0
15°	2538.8	2574.3	2436.9	2333.5	2375.5	2569.5	2921.7	3285.4	3606.9	3804.1	3910.7
17.5°	2650.3	2579.2	2412.7	2257.6	2246.3	2480.6	2936.3	3395.2	3768.5	3965.7	4078.8
20°	2598.5	2495.1	2354.5	2207.5	2126.7	2359.4	2928.2	3482.5	3915.6	4135.4	4227.5
22.5°	2487.0	2396.5	2286.7	2146.1	2029.7	2226.9	2907.2	3569.8	4046.5	4267.9	4348.7
25°	2365.8	2298.0	2207.5	2084.7	1974.8	2110.5	2892.7	3686.1	4196.8	4408.5	4460.2
27.5°	2244.6	2194.5	2120.2	2024.9	1961.8	2029.7	2897.5	3838.0	4390.7	4591.1	4570.1
30°	2125.1	2081.4	2029.7	1987.7	1960.2	2010.3	2884.6	3999.6	4604.0	4789.9	4665.4
32.5°	2011.9	1971.5	1939.2	1945.7	1961.8	2018.4	2818.3	4146.7	4799.6	4957.9	4768.9
35°	1915.0	1873.0	1873.0	1895.6	1955.4	1990.9	2647.0	4261.4	5016.1	5174.5	4915.9
37.5°	1824.5	1787.3	1811.5	1848.7	1905.3	1916.6	2427.2	4372.9	5331.2	5479.9	5143.8
40°	1745.3	1708.1	1751.8	1798.6	1827.7	1822.9	2204.2	4528.1	5702.9	5856.4	5446.0
42.5°	1682.3	1648.3	1687.1	1746.9	1751.8	1756.6	2041.0	4676.7	6134.4	6329.9	5966.3
45°	1630.6	1606.3	1625.7	1685.5	1685.5	1759.8	1939.2	4801.2	6784.0	7129.8	6921.4
47.5°	1590.2	1575.6	1585.3	1604.7	1637.0	1818.0	1874.6	4896.5	7966.9	8645.7	8435.6
50°	1567.5	1553.0	1565.9	1525.5	1622.5	1847.1	1853.6	4969.2	9526.4	10589.7	10329.5
52.5°	1548.1	1543.3	1551.4	1457.6	1654.8	1827.7	1837.4	4872.3	10572.0	12503.1	12760.0
55°	1541.7	1544.9	1506.1	1407.5	1693.6	1763.1	1788.9	4179.0	10856.4	14153.0	15748.0
57.5°	1544.9	1535.2	1436.6	1412.4	1695.2	1633.8	1858.4	2981.5	10442.7	14870.5	18671.4
60°	1533.6	1485.1	1352.6	1456.0	1620.9	1481.9	1808.3	1944.1	9351.9	14319.5	18841.1
62.5°	1483.5	1412.4	1279.9	1480.3	1488.3	1391.4	1641.9	1498.0	7897.5	13139.8	17205.7
65°	1410.8	1315.4	1218.5	1430.2	1354.2	1349.4	1234.6	1200.7	6350.9	11735.5	15654.3
67.5°	1291.2	1195.8	1173.2	1315.4	1218.5	1195.8	992.2	995.5	5067.8	10239.1	14094.9
70°	1155.4	1060.1	1077.9	1189.4	1084.3	993.8	803.2	829.0	3844.5	8530.9	11992.4
72.5°	1066.6	938.9	940.5	1047.2	953.4	804.8	660.9	683.6	2440.2	6430.1	9534.5
75°	900.1	827.4	791.8	848.4	809.6	627.0	555.9	551.1	1446.3	4608.9	7139.5
77.5°	751.4	694.9	677.1	699.7	604.4	463.8	447.6	439.6	819.3	2952.5	4678.4
80°	544.6	530.1	528.4	539.7	465.4	341.0	341.0	342.6	441.2	1603.1	2637.3
82.5°	345.8	378.1	334.5	371.7	316.7	242.4	226.2	256.9	253.7	683.6	1111.8
85°	143.8	197.2	184.2	195.5	150.3	132.5	142.2	153.5	147.1	263.4	433.1
87.5°	27.5	32.3	35.6	33.9	33.9	42.0	46.9	56.6	56.6	76.0	130.9
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°	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1
2.5°	2897.5	2944.4	2934.7	2955.7	2928.2	2937.9	2883.0	2868.4	2858.7	2862.0
5°	3194.9	3290.2	3308.0	3343.5	3319.3	3319.3	3222.3	3149.6	3123.8	3104.4
7.5°	3497.0	3634.4	3724.9	3734.6	3721.7	3695.8	3555.2	3424.3	3377.5	3337.1
10°	3765.3	3930.1	4031.9	4080.4	4056.2	4015.8	3841.3	3661.9	3605.3	3569.8
12.5°	3970.5	4116.0	4183.9	4216.2	4212.9	4198.4	4056.2	3862.3	3802.5	3747.5
15°	4103.1	4175.8	4149.9	4148.3	4170.9	4229.1	4185.5	4033.6	3964.1	3914.0
17.5°	4188.7	4119.2	4004.5	3951.1	3999.6	4137.0	4237.2	4151.5	4088.5	4033.6
20°	4219.4	3972.2	3805.7	3707.1	3763.7	3962.5	4209.7	4237.2	4183.9	4138.6
22.5°	4183.9	3792.8	3566.5	3450.2	3505.1	3742.7	4128.9	4306.7	4271.1	4227.5
25°	4096.6	3605.3	3333.8	3228.8	3288.6	3531.0	3985.1	4371.3	4372.9	4337.4
27.5°	3988.3	3432.4	3170.6	3072.0	3130.2	3356.5	3844.5	4427.9	4484.4	4471.5
30°	3878.4	3329.0	3093.0	3023.6	3067.2	3267.6	3700.7	4486.0	4599.2	4621.8
32.5°	3828.3	3379.1	3275.7	3306.4	3249.8	3319.3	3649.0	4568.5	4738.1	4775.3
35°	3894.6	3823.5	4085.3	4206.5	4006.1	3742.7	3715.2	4692.9	4933.7	4988.6
37.5°	4216.2	4775.3	5166.4	5593.0	5245.6	4665.4	4043.3	4904.6	5213.3	5300.5
40°	4915.9	5605.9	6312.1	6863.2	6338.0	5557.5	4667.0	5219.7	5597.9	5677.0
42.5°	5575.2	6384.9	7357.7	8070.4	7388.4	6286.3	5339.3	5749.8	6105.3	6148.9
45°	6221.6	7149.2	8623.0	9613.7	8687.7	6979.6	6026.1	6645.0	6913.3	6914.9
47.5°	6979.6	8010.6	10210.0	11620.7	10412.0	7747.2	6670.9	8062.3	8435.6	8253.0
50°	7886.1	8867.1	11843.8	13955.9	12514.4	8690.9	7490.2	9789.8	10298.8	10092.0
52.5°	9099.8	9810.8	13644.0	16232.8	14805.9	9765.6	8678.0	12071.6	12239.7	11853.4
55°	10807.9	11173.1	15954.9	19044.7	17364.0	11089.1	10415.2	14935.2	14464.9	13358.0
57.5°	14697.6	13328.9	18921.9	22252.5	20258.3	13493.7	14222.5	18092.9	16420.3	14553.8
60°	17952.3	15946.8	21667.5	25436.0	22738.9	16144.0	17797.1	18642.3	16347.6	14421.3
62.5°	16855.0	16614.2	22658.1	25786.7	23585.7	17448.1	17133.0	17257.4	15281.0	13540.6
65°	14788.1	15326.3	21774.1	24123.8	22646.8	16279.7	15497.6	15977.5	14060.9	12307.5
67.5°	13568.0	13964.0	20201.8	21462.3	20940.3	15016.0	14225.8	13878.3	12167.0	10677.0
70°	12320.5	12648.5	17994.3	18122.0	18278.7	12915.2	11632.1	10597.8	9069.1	8026.7
72.5°	10646.3	10664.1	15203.4	14463.3	14760.7	10106.5	9363.2	7923.3	6601.4	5656.0
75°	8931.7	8443.7	12034.4	10109.8	10706.1	7861.9	7774.6	5971.2	4978.9	4203.2
77.5°	6809.9	6239.4	8791.1	6648.3	7519.3	5235.9	5845.1	4049.7	3503.5	2797.3
80°	4571.7	4216.2	4857.7	3752.4	4919.1	3608.6	3812.2	2294.7	1989.3	1543.3
82.5°	2411.1	2058.8	3002.6	2225.2	2967.0	1982.8	1430.2	709.4	604.4	488.0
85°	934.1	1081.1	1472.2	791.8	1150.6	707.8	413.7	176.1	147.1	111.5
87.5°	181.0	279.6	153.5	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)