

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: P640022

Luminaire Tested: GWS-SA5D-722-U-SLL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640022
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-SA5D-722-U-SLL-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20739.2 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

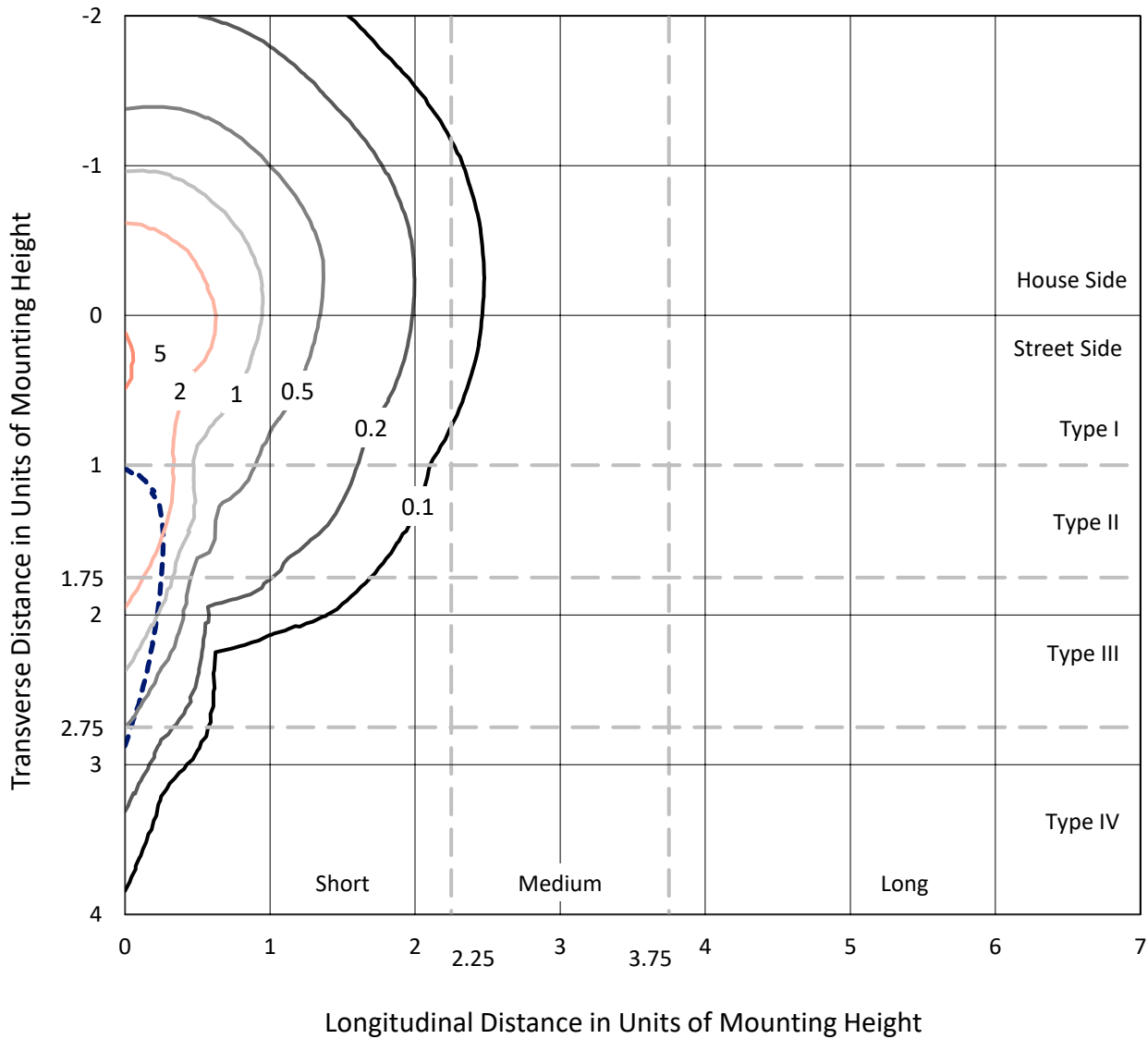
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

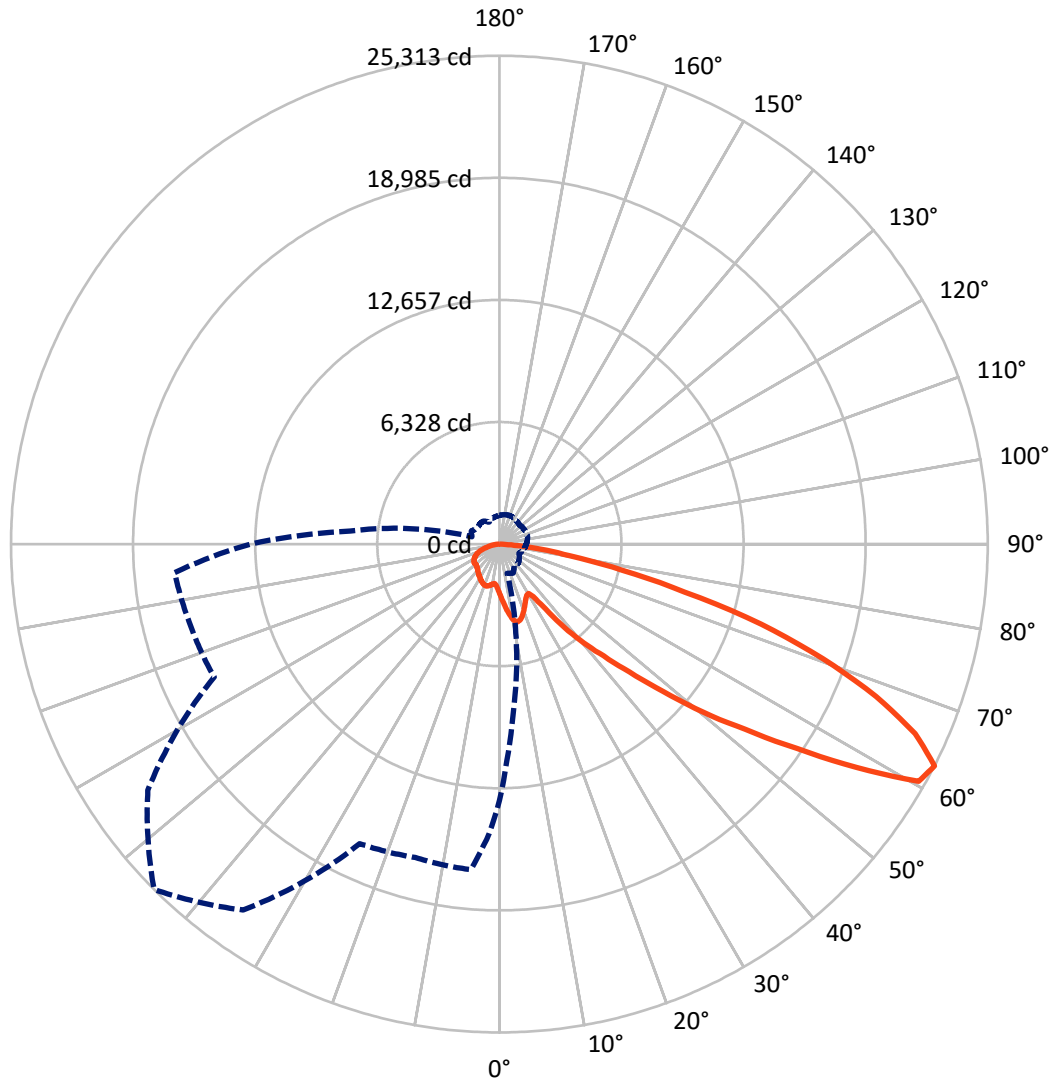
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	4958.8	0.0	4958.8
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	15780.4	0.0	15780.4
	% Fixture	76.1	0.0	76.1
Total	Lumens	20739.2	0.0	20739.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.7	1.2
10°-20°	827.9	4.0
20°-30°	1303.3	6.3
30°-40°	1786.4	8.6
40°-50°	2787.3	13.4
50°-60°	4805.9	23.2
60°-70°	5569.4	26.9
70°-80°	2939.8	14.2
80°-90°	464.4	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°	20739.2	100.0
0°-180°	20739.2	100.0

Coefficient of Utilization



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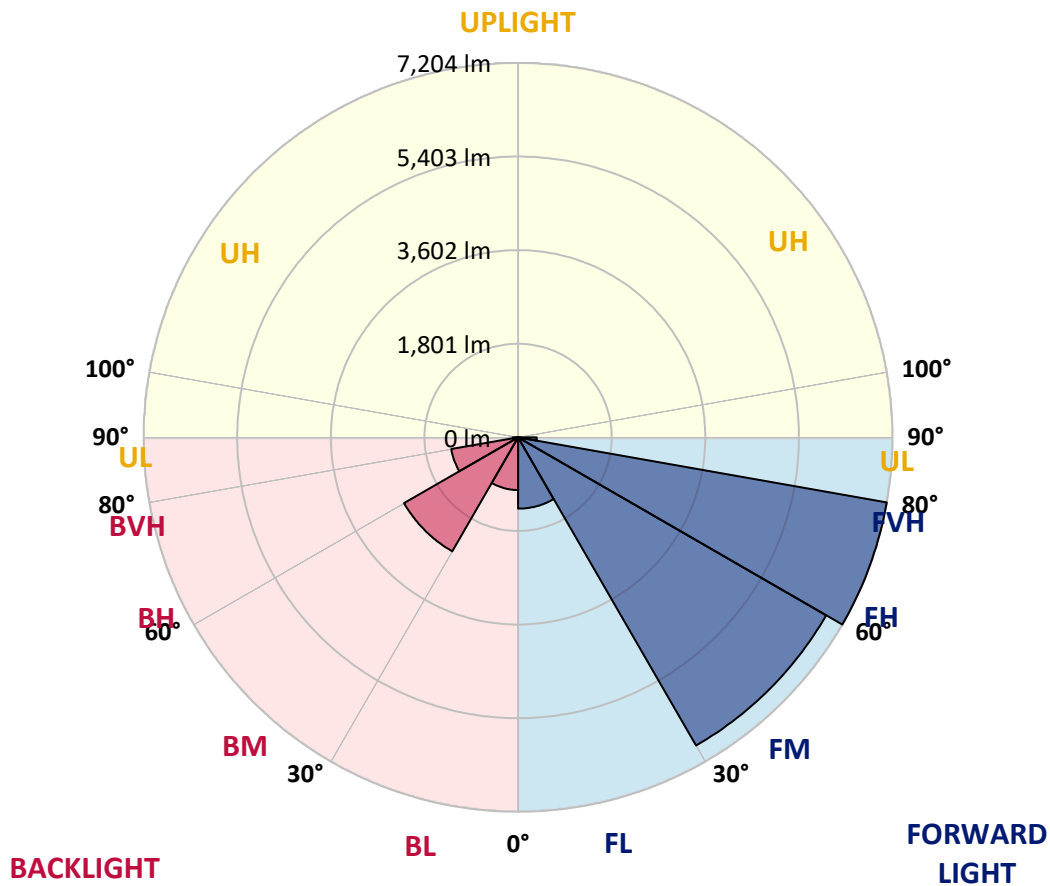
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1371.6	6.6			
FM (30°-60°)	6846.7	33.0			
FH (60°-80°)	7203.6	34.7			G3/7500
FVH (80°-90°)	358.4	1.7			G3/500
BL (0°-30°)	1014.2	4.9	B3/2500		
BM (30°-60°)	2532.9	12.2	B3/5000		
BH (60°-80°)	1305.7	6.3	B3/2500		G3/2500
BVH (80°-90°)	105.9	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°	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7
2.5°	2809.4	2798.3	2782.5	2728.5	2695.2	2657.1	2617.5	2571.5	2519.1	2482.6	2446.2
5°	3047.4	3029.9	2991.9	2863.4	2774.5	2677.8	2596.9	2504.8	2414.4	2352.6	2290.7
7.5°	3275.8	3253.6	3194.9	2998.2	2853.8	2714.2	2592.1	2458.8	2324.0	2232.0	2159.0
10°	3504.2	3458.2	3383.7	3126.7	2936.3	2774.5	2634.9	2471.5	2292.3	2167.0	2089.2
12.5°	3678.7	3635.9	3555.0	3244.1	3018.8	2815.8	2658.7	2508.0	2355.7	2222.5	2143.2
15°	3842.1	3786.6	3694.6	3353.5	3087.0	2814.2	2611.1	2479.5	2457.3	2423.9	2320.8
17.5°	3959.5	3908.8	3813.6	3442.4	3125.1	2765.0	2479.5	2401.7	2501.7	2603.2	2504.8
20°	4062.6	4003.9	3907.2	3504.2	3133.0	2655.5	2319.2	2320.8	2477.9	2617.5	2593.7
22.5°	4149.9	4084.8	3999.2	3574.0	3129.9	2503.3	2179.6	2274.8	2431.9	2541.3	2544.5
25°	4257.8	4203.8	4132.4	3677.2	3129.9	2347.8	2078.1	2219.3	2354.1	2446.2	2443.0
27.5°	4389.4	4352.9	4294.2	3834.2	3158.4	2217.7	2021.0	2147.9	2254.2	2333.5	2331.9
30°	4537.0	4503.6	4459.2	4000.8	3207.6	2120.9	1989.3	2059.1	2136.8	2200.3	2200.3
32.5°	4687.7	4675.0	4627.4	4134.0	3169.5	2090.8	1962.3	1970.2	2011.5	2063.8	2059.1
35°	4897.1	4884.4	4824.1	4237.1	3004.5	2048.0	1919.5	1879.8	1884.6	1917.9	1929.0
37.5°	5203.2	5184.2	5095.4	4357.7	2755.5	1940.1	1849.7	1784.6	1770.4	1784.6	1805.3
40°	5572.8	5544.3	5423.7	4521.1	2468.4	1794.2	1740.2	1686.3	1662.5	1667.3	1691.0
42.5°	6036.1	5975.8	5802.9	4694.0	2184.4	1665.7	1618.1	1584.8	1557.8	1554.6	1600.6
45°	6788.0	6623.0	6348.6	4847.9	1944.9	1597.5	1508.6	1484.8	1462.6	1475.3	1529.2
47.5°	8101.5	7796.9	7262.3	4979.5	1798.9	1599.0	1421.4	1396.0	1394.4	1419.8	1480.1
50°	9906.7	9467.3	8642.4	5068.4	1722.8	1618.1	1369.0	1327.8	1357.9	1383.3	1440.4
52.5°	11635.9	10964.8	9982.9	5066.8	1689.5	1621.2	1383.3	1264.3	1357.9	1364.3	1418.2
55°	13112.8	11897.6	10344.6	4546.5	1641.9	1608.6	1438.8	1215.1	1340.5	1364.3	1407.1
57.5°	14286.7	12490.9	10317.6	3672.4	1786.2	1538.8	1472.1	1204.0	1289.7	1367.4	1416.6
60°	14156.6	12219.6	9652.9	2254.2	1772.0	1415.0	1467.4	1224.7	1204.0	1324.6	1405.5
62.5°	13292.0	11247.2	8509.2	1564.1	1664.1	1343.6	1389.6	1261.1	1124.7	1262.7	1351.6
65°	12081.6	9992.4	7091.0	1199.3	1378.5	1346.8	1258.0	1235.8	1054.9	1164.4	1259.6
67.5°	10481.0	8436.2	5598.2	950.2	961.3	1166.0	1142.2	1097.8	989.9	1077.1	1162.8
70°	7879.4	6156.6	3851.7	764.6	728.1	974.0	1026.4	986.7	926.4	951.8	1042.2
72.5°	5552.2	4019.8	2109.8	606.0	561.6	748.8	891.5	885.2	818.6	837.6	926.4
75°	4126.1	2844.3	1318.3	479.1	456.9	536.2	747.2	766.2	710.7	732.9	801.1
77.5°	2746.0	1841.8	732.9	355.3	355.3	391.8	556.8	645.6	604.4	621.8	669.4
80°	1515.0	937.5	366.4	233.2	239.5	269.7	406.1	464.8	466.4	509.2	521.9
82.5°	479.1	298.2	163.4	136.4	128.5	153.9	261.7	333.1	310.9	396.6	364.9
85°	109.5	69.8	30.1	30.1	33.3	50.8	99.9	177.7	226.8	272.9	198.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	69.8	103.1	92.0
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°	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7
2.5°	2423.9	2392.2	2382.7	2355.7	2352.6	2327.2	2317.7	2317.7	2328.8	2328.8	2339.9
5°	2265.3	2225.6	2203.4	2171.7	2163.8	2144.7	2132.1	2133.6	2147.9	2157.4	2176.5
7.5°	2125.7	2098.7	2082.9	2068.6	2065.4	2062.3	2048.0	2046.4	2051.1	2065.4	2079.7
10°	2067.0	2048.0	2052.7	2063.8	2081.3	2090.8	2078.1	2071.8	2067.0	2076.5	2089.2
12.5°	2124.1	2105.1	2114.6	2133.6	2157.4	2167.0	2162.2	2160.6	2165.4	2201.9	2228.8
15°	2249.4	2213.0	2200.3	2208.2	2227.2	2236.8	2232.0	2238.3	2268.5	2363.7	2431.9
17.5°	2404.9	2316.1	2265.3	2251.0	2259.0	2266.9	2266.9	2282.8	2335.1	2474.7	2560.4
20°	2489.0	2373.2	2287.5	2252.6	2255.8	2263.7	2263.7	2285.9	2344.6	2493.7	2549.3
22.5°	2466.8	2360.5	2255.8	2217.7	2219.3	2225.6	2225.6	2244.7	2297.0	2428.7	2454.1
25°	2379.5	2285.9	2182.8	2149.5	2152.7	2163.8	2160.6	2171.7	2211.4	2319.2	2333.5
27.5°	2274.8	2192.3	2090.8	2065.4	2079.7	2101.9	2082.9	2084.5	2120.9	2211.4	2213.0
30°	2162.2	2094.0	2003.6	1984.5	2011.5	2022.6	2005.1	2005.1	2041.6	2103.5	2101.9
32.5°	2040.0	1997.2	1932.2	1911.6	1941.7	1959.1	1936.9	1940.1	1968.7	2009.9	1994.0
35°	1925.8	1903.6	1873.5	1859.2	1878.2	1894.1	1879.8	1886.2	1913.1	1924.2	1902.0
37.5°	1816.4	1813.2	1816.4	1816.4	1821.1	1825.9	1816.4	1832.2	1856.0	1841.8	1816.4
40°	1721.2	1733.9	1764.0	1756.1	1751.3	1756.1	1749.7	1776.7	1800.5	1775.1	1745.0
42.5°	1641.9	1665.7	1711.7	1711.7	1702.2	1705.3	1702.2	1735.5	1752.9	1718.0	1684.7
45°	1573.7	1608.6	1667.3	1675.2	1659.3	1659.3	1665.7	1706.9	1713.3	1665.7	1630.8
47.5°	1526.1	1568.9	1635.5	1649.8	1626.0	1624.4	1641.9	1686.3	1686.3	1630.8	1591.1
50°	1492.8	1540.3	1619.7	1638.7	1614.9	1608.6	1637.1	1679.9	1670.4	1603.8	1564.1
52.5°	1470.5	1519.7	1618.1	1645.0	1629.2	1622.8	1651.4	1681.5	1657.7	1586.3	1545.1
55°	1456.3	1510.2	1622.8	1645.0	1627.6	1616.5	1645.0	1672.0	1659.3	1576.8	1537.2
57.5°	1464.2	1518.1	1616.5	1627.6	1607.0	1587.9	1621.2	1659.3	1654.6	1580.0	1540.3
60°	1451.5	1500.7	1581.6	1584.8	1549.9	1519.7	1568.9	1626.0	1626.0	1568.9	1534.0
62.5°	1392.8	1442.0	1513.4	1516.5	1476.9	1443.6	1500.7	1568.9	1567.3	1521.3	1484.8
65°	1296.0	1342.1	1423.0	1430.9	1391.2	1356.3	1415.0	1478.5	1483.2	1442.0	1410.3
67.5°	1189.8	1231.0	1291.3	1323.0	1289.7	1253.2	1307.2	1367.4	1365.8	1316.7	1283.4
70°	1062.9	1100.9	1156.4	1183.4	1162.8	1127.9	1177.1	1208.8	1194.5	1170.7	1148.5
72.5°	937.5	974.0	1026.4	1026.4	1004.2	970.8	985.1	1042.2	1059.7	1042.2	1028.0
75°	805.9	837.6	874.1	882.0	832.8	772.6	839.2	888.4	909.0	901.0	883.6
77.5°	671.0	694.8	748.8	734.5	642.5	610.7	664.7	737.7	751.9	747.2	723.4
80°	517.1	531.4	588.5	560.0	488.6	468.0	491.8	548.9	552.0	536.2	506.0
82.5°	347.4	366.4	404.5	349.0	347.4	328.4	309.3	315.7	344.2	341.1	320.4
85°	177.7	187.2	223.7	209.4	179.3	155.5	147.5	157.0	141.2	128.5	111.0
87.5°	74.6	80.9	111.0	61.9	19.0	0.0	0.0	9.5	14.3	20.6	22.2
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°	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7
2.5°	2365.2	2382.7	2425.5	2479.5	2531.8	2585.7	2644.4	2680.9	2725.3	2782.5	2784.0
5°	2200.3	2239.9	2301.8	2384.3	2469.9	2568.3	2682.5	2777.7	2891.9	2982.3	3018.8
7.5°	2098.7	2155.8	2233.6	2338.3	2450.9	2573.1	2722.2	2882.4	3069.6	3190.1	3261.5
10°	2108.3	2195.5	2273.2	2362.1	2463.6	2595.3	2787.2	2999.8	3229.8	3388.4	3477.3
12.5°	2278.0	2370.0	2355.7	2351.0	2419.2	2579.4	2839.6	3118.8	3399.5	3558.2	3664.5
15°	2492.2	2527.1	2392.2	2290.7	2331.9	2522.3	2868.1	3225.0	3540.7	3734.3	3839.0
17.5°	2601.6	2531.8	2368.4	2216.1	2205.0	2435.0	2882.4	3332.9	3699.4	3892.9	4003.9
20°	2550.8	2449.3	2311.3	2167.0	2087.6	2316.1	2874.5	3418.6	3843.7	4059.5	4149.9
22.5°	2441.4	2352.6	2244.7	2106.7	1992.5	2186.0	2853.8	3504.2	3972.2	4189.5	4268.9
25°	2322.4	2255.8	2167.0	2046.4	1938.5	2071.8	2839.6	3618.5	4119.7	4327.6	4378.3
27.5°	2203.4	2154.3	2081.3	1987.7	1925.8	1992.5	2844.3	3767.6	4310.1	4506.8	4486.2
30°	2086.0	2043.2	1992.5	1951.2	1924.2	1973.4	2831.6	3926.2	4519.5	4701.9	4579.8
32.5°	1975.0	1935.3	1903.6	1910.0	1925.8	1981.3	2766.6	4070.6	4711.5	4866.9	4681.3
35°	1879.8	1838.6	1838.6	1860.8	1919.5	1954.4	2598.4	4183.2	4924.0	5079.5	4825.7
37.5°	1791.0	1754.5	1778.3	1814.8	1870.3	1881.4	2382.7	4292.7	5233.4	5379.3	5049.3
40°	1713.3	1676.8	1719.6	1765.6	1794.2	1789.4	2163.8	4444.9	5598.2	5748.9	5346.0
42.5°	1651.4	1618.1	1656.1	1714.8	1719.6	1724.4	2003.6	4590.9	6021.8	6213.7	5856.8
45°	1600.6	1576.8	1595.9	1654.6	1654.6	1727.5	1903.6	4713.0	6659.5	6999.0	6794.3
47.5°	1561.0	1546.7	1556.2	1575.2	1607.0	1784.6	1840.2	4806.6	7820.7	8487.0	8280.7
50°	1538.8	1524.5	1537.2	1497.5	1592.7	1813.2	1819.5	4878.0	9351.5	10395.3	10139.9
52.5°	1519.7	1515.0	1522.9	1430.9	1624.4	1794.2	1803.7	4782.8	10377.9	12273.6	12525.8
55°	1513.4	1516.5	1478.5	1381.7	1662.5	1730.7	1756.1	4102.3	10657.1	13893.2	15459.0
57.5°	1516.5	1507.0	1410.3	1386.5	1664.1	1603.8	1824.3	2926.8	10251.0	14597.6	18328.7
60°	1505.4	1457.9	1327.8	1429.3	1591.1	1454.7	1775.1	1908.4	9180.2	14056.6	18495.2
62.5°	1456.3	1386.5	1256.4	1453.1	1461.0	1365.8	1611.7	1470.5	7752.5	12898.6	16889.9
65°	1384.9	1291.3	1196.1	1403.9	1329.4	1324.6	1212.0	1178.7	6234.4	11520.1	15367.0
67.5°	1267.5	1173.9	1151.7	1291.3	1196.1	1173.9	974.0	977.2	4974.8	10051.1	13836.1
70°	1134.2	1040.6	1058.1	1167.6	1064.4	975.6	788.4	813.8	3773.9	8374.3	11772.3
72.5°	1047.0	921.7	923.3	1028.0	935.9	790.0	648.8	671.0	2395.4	6312.1	9359.5
75°	883.6	812.2	777.3	832.8	794.8	615.5	545.7	540.9	1419.8	4524.3	7008.5
77.5°	737.7	682.1	664.7	686.9	593.3	455.3	439.4	431.5	804.3	2898.3	4592.5
80°	534.6	520.3	518.7	529.8	456.9	334.7	334.7	336.3	433.1	1573.7	2588.9
82.5°	339.5	371.2	328.4	364.9	310.9	238.0	222.1	252.2	249.1	671.0	1091.4
85°	141.2	193.5	180.8	191.9	147.5	130.1	139.6	150.7	144.4	258.6	425.1
87.5°	27.0	31.7	34.9	33.3	33.3	41.2	46.0	55.5	55.5	74.6	128.5
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°	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7
2.5°	2844.3	2890.3	2880.8	2901.4	2874.5	2884.0	2830.0	2815.8	2806.3	2809.4
5°	3136.2	3229.8	3247.3	3282.2	3258.4	3258.4	3163.2	3091.8	3066.4	3047.4
7.5°	3432.9	3567.7	3656.5	3666.1	3653.4	3628.0	3490.0	3361.5	3315.5	3275.8
10°	3696.2	3858.0	3957.9	4005.5	3981.7	3942.1	3770.8	3594.7	3539.1	3504.2
12.5°	3897.7	4040.4	4107.1	4138.8	4135.6	4121.3	3981.7	3791.4	3732.7	3678.7
15°	4027.7	4099.1	4073.7	4072.2	4094.4	4151.5	4108.6	3959.5	3891.3	3842.1
17.5°	4111.8	4043.6	3931.0	3878.6	3926.2	4061.1	4159.4	4075.3	4013.5	3959.5
20°	4142.0	3899.2	3735.9	3639.1	3694.6	3889.7	4132.4	4159.4	4107.1	4062.6
22.5°	4107.1	3723.2	3501.1	3386.9	3440.8	3674.0	4053.1	4227.6	4192.7	4149.9
25°	4021.4	3539.1	3272.6	3169.5	3228.2	3466.2	3911.9	4291.1	4292.7	4257.8
27.5°	3915.1	3369.4	3112.4	3015.6	3072.8	3294.8	3773.9	4346.6	4402.1	4389.4
30°	3807.2	3267.9	3036.3	2968.1	3010.9	3207.6	3632.7	4403.7	4514.7	4537.0
32.5°	3758.1	3317.1	3215.5	3245.7	3190.1	3258.4	3582.0	4484.6	4651.2	4687.7
35°	3823.1	3753.3	4010.3	4129.3	3932.6	3674.0	3647.0	4606.8	4843.1	4897.1
37.5°	4138.8	4687.7	5071.6	5490.4	5149.3	4579.8	3969.0	4814.6	5117.6	5203.2
40°	4825.7	5503.0	6196.3	6737.2	6221.7	5455.5	4581.4	5123.9	5495.1	5572.8
42.5°	5472.9	6267.7	7222.6	7922.2	7252.8	6170.9	5241.3	5644.2	5993.2	6036.1
45°	6107.4	7018.0	8464.8	9437.2	8528.2	6851.4	5915.5	6523.1	6786.4	6788.0
47.5°	6851.4	7863.5	10022.6	11407.4	10220.8	7605.0	6548.4	7914.3	8280.7	8101.5
50°	7741.4	8704.3	11626.4	13699.7	12284.7	8531.4	7352.7	9610.1	10109.8	9906.7
52.5°	8932.7	9630.7	13393.5	15934.9	14534.1	9586.3	8518.7	11850.0	12015.0	11635.9
55°	10609.5	10968.0	15662.0	18695.1	17045.3	10885.5	10224.0	14661.0	14199.4	13112.8
57.5°	14427.8	13084.2	18574.6	21844.0	19886.5	13246.0	13961.5	17760.8	16118.9	14286.7
60°	17622.8	15654.1	21269.8	24969.1	22321.5	15847.6	17470.5	18300.1	16047.5	14156.6
62.5°	16545.6	16309.3	22242.2	25313.4	23152.8	17127.8	16818.5	16940.6	15000.5	13292.0
65°	14516.7	15044.9	21374.5	23681.0	22231.1	15980.9	15213.1	15684.2	13802.8	12081.6
67.5°	13319.0	13707.6	19830.9	21068.3	20555.9	14740.4	13964.6	13623.6	11943.6	10481.0
70°	12094.3	12416.4	17664.0	17789.3	17943.2	12678.1	11418.5	10403.3	8902.6	7879.4
72.5°	10450.9	10468.3	14924.4	14197.8	14489.7	9921.0	9191.3	7777.9	6480.2	5552.2
75°	8767.8	8288.7	11813.5	9924.2	10509.6	7717.6	7631.9	5861.6	4887.5	4126.1
77.5°	6684.9	6124.9	8629.7	6526.2	7381.3	5139.8	5737.8	3975.4	3439.2	2746.0
80°	4487.8	4138.8	4768.6	3683.5	4828.8	3542.3	3742.2	2252.6	1952.8	1515.0
82.5°	2366.8	2021.0	2947.4	2184.4	2912.5	1946.5	1403.9	696.4	593.3	479.1
85°	916.9	1061.3	1445.2	777.3	1129.5	694.8	406.1	172.9	144.4	109.5
87.5°	177.7	274.4	150.7	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)