

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: P640026

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640026
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-41)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-722-U-SLR-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20951.8 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

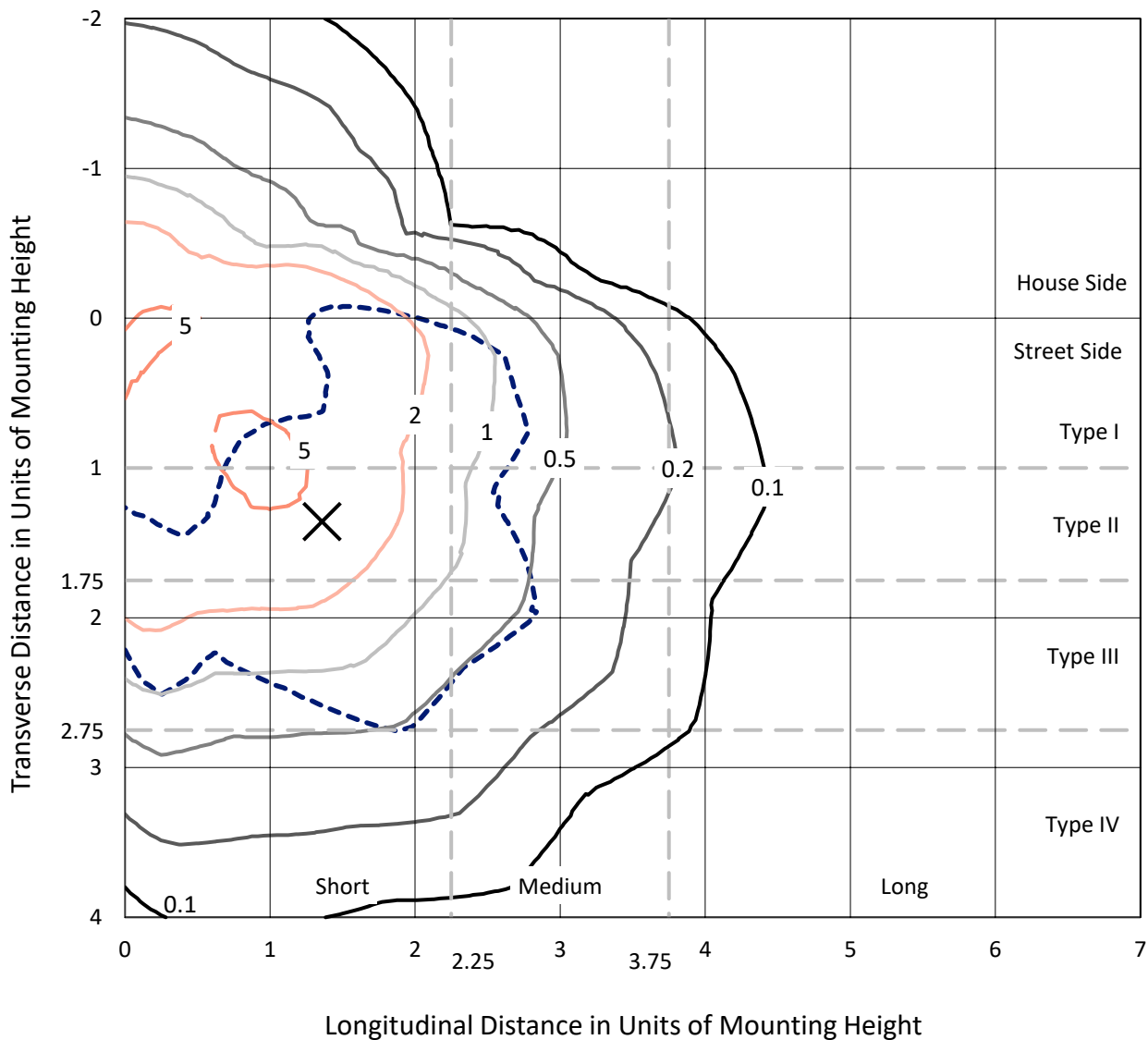
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

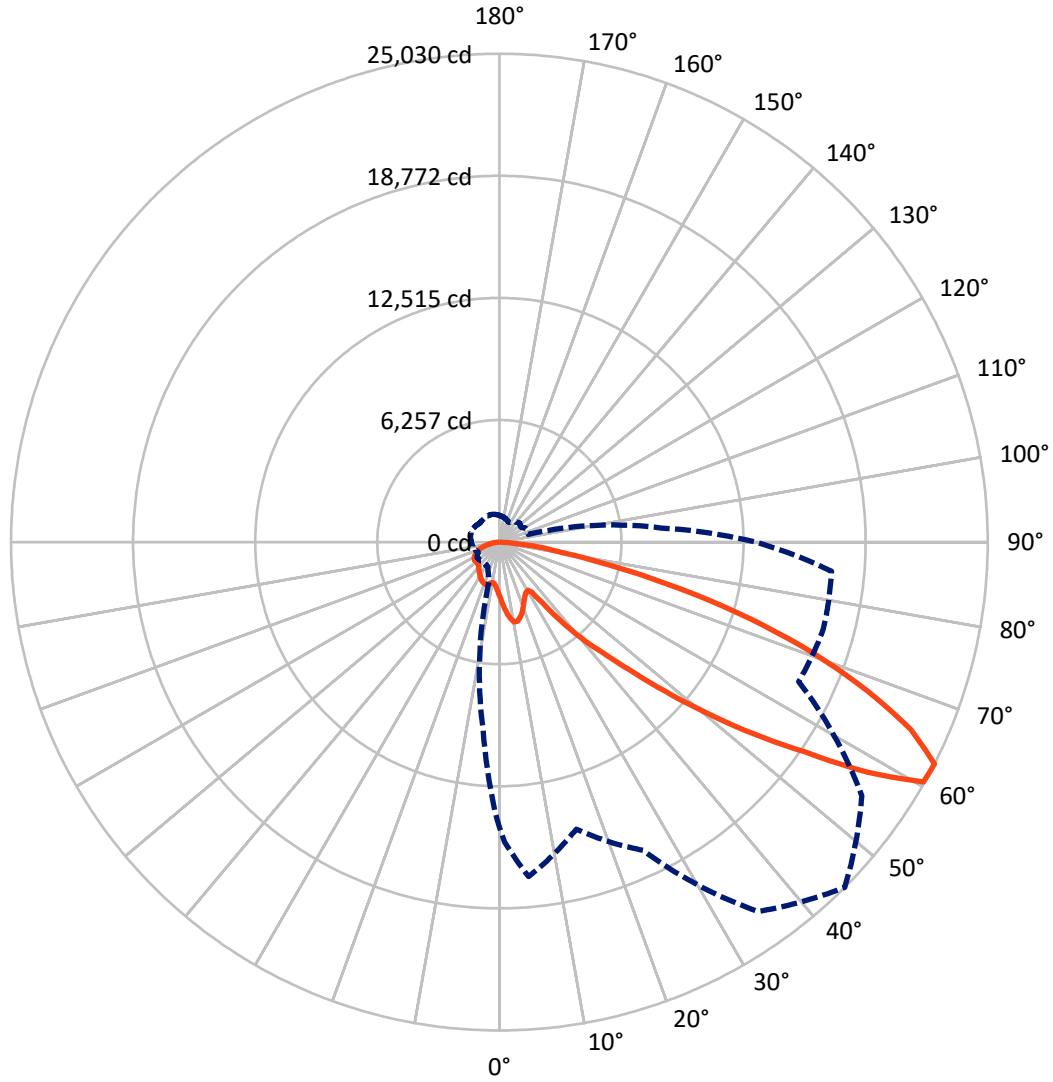
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4999.5	0.0	4999.5
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	15952.3	0.0	15952.3
	% Fixture	76.1	0.0	76.1
Total	Lumens	20951.8	0.0	20951.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.6	1.3
10°-20°	851.3	4.1
20°-30°	1322.3	6.3
30°-40°	1795.4	8.6
40°-50°	2845.5	13.6
50°-60°	5019.5	24.0
60°-70°	5584.9	26.7
70°-80°	2832.4	13.5
80°-90°	428.9	2.0
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°	20951.8	100.0
0°-180°	20951.8	100.0

Coefficient of Utilization



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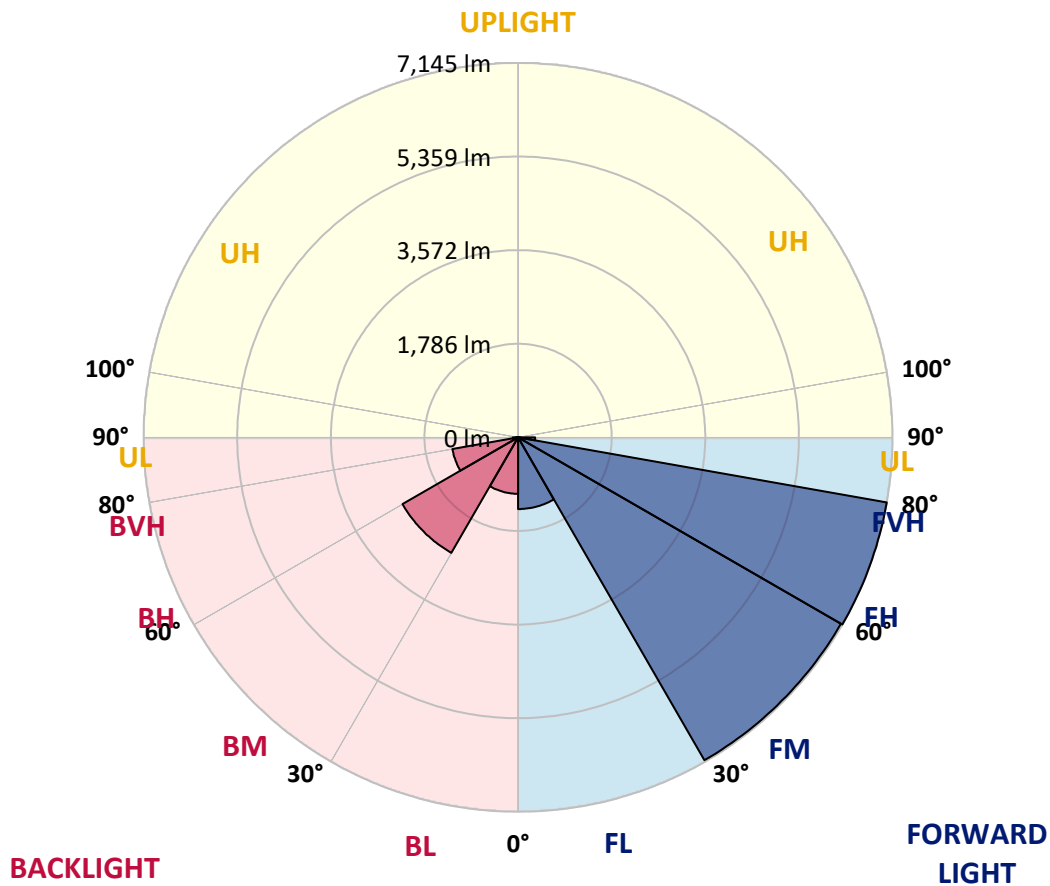
CATALOG NUMBER: GWS-SA5D-722-U-SLR-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1368.0	6.5			
FM (30°-60°)	7114.0	34.0			
FH (60°-80°)	7144.8	34.1			G3/7500
FVH (80°-90°)	325.5	1.6			G3/500
BL (0°-30°)	1077.3	5.1	B3/2500		
BM (30°-60°)	2546.3	12.2	B3/5000		
BH (60°-80°)	1272.6	6.1	B3/2500		G3/2500
BVH (80°-90°)	103.4	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°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2780.7	2780.7	2780.7	2780.7	2780.7	2780.7	2780.7	2780.7	2780.7	2780.7	2780.7
2.5°	2988.5	2986.9	3017.1	3063.1	3105.9	3125.0	3156.7	3153.5	3128.1	3094.8	3083.7
5°	3223.3	3229.6	3282.0	3383.5	3496.1	3543.7	3564.3	3556.4	3510.4	3451.7	3348.6
7.5°	3435.9	3447.0	3527.9	3680.1	3819.7	3883.2	3934.0	3924.4	3857.8	3748.4	3596.1
10°	3591.3	3604.0	3700.8	3880.0	4035.5	4091.0	4156.0	4159.2	4100.5	3953.0	3797.5
12.5°	3746.8	3759.5	3849.9	4013.3	4114.8	4116.4	4154.4	4175.1	4178.2	4110.0	3954.6
15°	3908.6	3919.7	4002.2	4094.2	4089.4	4000.6	4000.6	4040.2	4127.5	4176.6	4068.8
17.5°	4046.6	4060.9	4124.3	4094.2	3953.0	3792.8	3773.7	3824.5	3976.8	4165.5	4154.4
20°	4160.8	4171.9	4206.8	4006.9	3749.9	3540.6	3504.1	3562.8	3769.0	4097.3	4219.5
22.5°	4270.2	4276.6	4257.5	3892.7	3531.0	3291.5	3247.1	3309.0	3531.0	3976.8	4275.0
25°	4400.3	4394.0	4303.6	3773.7	3331.2	3094.8	3048.8	3118.6	3350.2	3816.6	4335.3
27.5°	4551.0	4527.2	4343.2	3645.2	3177.3	2948.9	2917.2	2991.7	3207.4	3669.0	4382.9
30°	4679.5	4633.5	4349.6	3531.0	3098.0	2887.0	2868.0	2937.8	3137.6	3569.1	4443.1
32.5°	4822.3	4758.8	4386.0	3500.9	3142.4	3036.1	3061.5	3066.3	3156.7	3540.6	4533.6
35°	5026.9	4944.4	4486.0	3588.1	3599.2	3778.5	3870.5	3746.8	3443.8	3604.0	4704.9
37.5°	5336.2	5231.5	4689.0	3965.7	4543.1	4944.4	5166.5	4884.1	4316.2	3843.5	4963.4
40°	5712.2	5578.9	4949.2	4663.6	5425.0	6067.5	6462.5	6048.4	5214.1	4441.6	5326.7
42.5°	6237.2	6097.6	5453.6	5348.9	6242.0	7198.5	7714.0	7097.0	6005.6	5214.1	5908.9
45°	7152.5	7017.7	6378.4	6035.8	7198.5	8591.2	9314.6	8456.4	6809.9	5989.8	6997.0
47.5°	8843.5	8684.8	7752.1	6797.2	8289.8	10399.6	11411.6	10161.6	7645.8	6878.1	8824.4
50°	10873.9	10721.6	9476.4	7698.2	9495.4	12333.3	13740.3	12165.1	8608.7	7958.3	11008.7
52.5°	13316.7	13288.2	11936.7	8837.1	10750.2	14395.4	16324.3	14384.3	9663.6	9412.9	13483.3
55°	15518.5	15797.7	15061.6	10574.1	12371.3	16985.8	18981.3	16804.9	11094.4	11817.7	16381.4
57.5°	16705.0	17455.3	18586.3	14117.8	14728.5	20082.2	22260.1	19760.2	13553.1	15821.5	19068.6
60°	15921.4	16771.6	18821.1	16785.9	17066.7	22563.1	24966.3	22244.3	15967.4	18600.6	18916.3
62.5°	14617.5	15380.5	17203.1	15228.2	17428.4	23108.8	25029.8	22677.3	16927.1	17190.4	17087.3
65°	13070.9	13840.2	15770.7	13292.9	16278.3	21812.8	23183.3	21403.5	15202.8	15531.2	15569.2
67.5°	11016.6	11727.3	13692.7	11819.3	14838.0	19910.9	20348.7	19588.9	14000.4	14523.9	13976.6
70°	8231.2	8872.0	10607.4	9604.9	12507.7	17433.1	17079.4	17192.0	12650.5	13170.8	11674.9
72.5°	5624.9	6107.1	7595.1	7547.5	9577.9	13956.0	13462.7	14530.2	10566.1	11256.2	8900.6
75°	3934.0	4309.9	5490.1	5962.8	7239.7	10344.1	9587.4	10875.5	8251.8	9236.9	6494.2
77.5°	2414.3	2663.3	3467.6	4417.8	4657.3	7079.5	5954.9	8183.6	5794.6	6736.9	4332.1
80°	1207.2	1327.7	1684.6	2777.6	3088.5	4171.9	3288.3	4750.9	3921.3	4171.9	2396.9
82.5°	364.8	402.9	493.3	1054.9	1600.5	2401.6	1943.2	2760.1	2141.5	1955.9	943.8
85°	96.8	109.5	136.4	312.5	561.5	861.3	656.7	1337.2	1026.3	721.8	355.3
87.5°	7.9	7.9	6.3	6.3	3.2	0.0	0.0	95.2	191.9	109.5	61.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2780.7	2780.7	2780.7	2780.7	2780.7	2780.7	2780.7	2780.7	2780.7	2780.7	2780.7
2.5°	3028.2	3021.8	2956.8	2909.2	2853.7	2799.8	2744.2	2695.1	2639.6	2584.0	2568.2
5°	3272.5	3228.1	3090.1	2974.3	2860.0	2760.1	2672.9	2582.4	2509.5	2438.1	2411.1
7.5°	3488.2	3410.5	3210.6	3034.5	2875.9	2752.2	2623.7	2492.0	2388.9	2287.4	2262.0
10°	3683.3	3580.2	3328.0	3105.9	2929.8	2788.7	2638.0	2461.9	2312.8	2189.1	2155.7
12.5°	3827.7	3715.0	3429.5	3174.1	2974.3	2815.6	2666.5	2511.1	2354.0	2193.8	2157.3
15°	3941.9	3824.5	3513.6	3226.5	2975.8	2771.2	2626.9	2572.9	2523.8	2366.7	2300.1
17.5°	4033.9	3910.2	3586.6	3258.2	2933.0	2636.4	2511.1	2590.4	2715.7	2617.3	2492.0
20°	4118.0	3992.6	3642.1	3280.4	2837.8	2450.8	2381.0	2549.1	2737.9	2734.7	2622.1
22.5°	4210.0	4087.8	3723.0	3293.1	2704.6	2262.0	2303.3	2488.9	2642.7	2688.7	2618.9
25°	4327.3	4219.5	3835.6	3321.6	2553.9	2131.9	2246.2	2411.1	2539.6	2550.7	2509.5
27.5°	4463.8	4382.9	4003.7	3388.3	2408.0	2065.3	2179.5	2301.7	2419.1	2423.8	2374.6
30°	4612.9	4558.9	4159.2	3443.8	2298.5	2044.7	2093.9	2192.2	2266.8	2279.5	2236.6
32.5°	4803.2	4755.6	4297.2	3407.3	2233.5	2039.9	2014.6	2065.3	2127.2	2127.2	2093.9
35°	5065.0	4998.3	4443.1	3267.7	2154.2	2020.9	1930.5	1944.8	1971.7	1976.5	1957.5
37.5°	5436.1	5326.7	4590.7	2991.7	2024.1	1952.7	1833.7	1816.3	1825.8	1838.5	1833.7
40°	5896.2	5716.9	4806.4	2660.2	1868.6	1821.0	1733.8	1700.5	1692.6	1717.9	1727.4
42.5°	6475.2	6200.7	5038.0	2350.9	1727.4	1670.3	1616.4	1587.9	1575.2	1618.0	1643.4
45°	7400.0	6947.9	5260.1	2044.7	1648.1	1541.9	1505.4	1484.7	1491.1	1541.9	1573.6
47.5°	8997.3	8088.4	5471.0	1851.2	1641.8	1449.9	1405.4	1410.2	1427.6	1481.6	1519.6
50°	11018.2	9616.0	5612.2	1770.3	1660.8	1394.3	1335.6	1361.0	1388.0	1440.3	1484.7
52.5°	13075.6	11038.9	5444.1	1725.9	1659.2	1395.9	1270.6	1346.7	1359.4	1411.8	1459.4
55°	14490.6	11197.5	4703.3	1657.7	1633.9	1459.4	1219.8	1340.4	1348.3	1395.9	1438.7
57.5°	15029.9	10655.0	3586.6	1676.7	1557.7	1508.5	1197.6	1296.0	1353.1	1394.3	1438.7
60°	14378.0	9631.8	2179.5	1725.9	1435.6	1505.4	1211.9	1215.1	1313.4	1383.2	1427.6
62.5°	13148.6	8318.4	1530.8	1586.3	1346.7	1421.3	1245.2	1119.9	1243.6	1327.7	1367.4
65°	11740.0	6773.4	1167.5	1365.8	1303.9	1291.2	1256.3	1035.8	1148.5	1230.9	1265.8
67.5°	10272.7	5264.8	948.6	1018.4	1178.6	1167.5	1148.5	961.3	1035.8	1094.5	1134.2
70°	8424.7	3683.3	801.1	764.6	1010.5	1046.9	1004.1	867.7	891.5	951.8	983.5
72.5°	6162.7	2295.3	658.3	631.3	812.2	915.3	893.1	764.6	775.7	832.8	858.2
75°	4432.0	1313.4	528.2	520.3	620.2	783.6	739.2	658.3	671.0	713.8	731.3
77.5°	2817.2	731.3	407.7	418.8	444.2	585.3	631.3	563.1	563.1	588.5	602.8
80°	1508.5	418.8	298.2	303.0	310.9	447.3	498.1	436.2	436.2	418.8	436.2
82.5°	615.5	241.1	204.6	190.4	207.8	306.2	349.0	277.6	290.3	261.7	268.1
85°	203.0	120.6	101.5	99.9	98.3	134.8	168.1	138.0	165.0	104.7	109.5
87.5°	27.0	22.2	12.7	9.5	11.1	4.8	9.5	11.1	11.1	7.9	7.9
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2780.7	2780.7	2780.7	2780.7	2780.7	2780.7	2780.7	2780.7	2780.7	2780.7	2780.7
2.5°	2557.1	2544.4	2498.4	2509.5	2501.5	2488.9	2501.5	2477.8	2496.8	2503.1	2542.8
5°	2390.5	2360.4	2316.0	2293.7	2289.0	2276.3	2277.9	2266.8	2270.0	2296.9	2341.3
7.5°	2241.4	2212.8	2177.9	2162.1	2147.8	2133.5	2131.9	2130.4	2143.1	2166.8	2209.7
10°	2133.5	2117.7	2103.4	2109.7	2103.4	2097.0	2085.9	2085.9	2106.6	2149.4	2201.7
12.5°	2133.5	2130.4	2133.5	2152.6	2151.0	2152.6	2138.3	2146.2	2203.3	2276.3	2350.9
15°	2247.7	2222.4	2222.4	2231.9	2228.7	2228.7	2228.7	2262.0	2392.1	2504.7	2584.0
17.5°	2387.3	2312.8	2281.1	2276.3	2274.7	2274.7	2281.1	2352.4	2555.5	2674.5	2720.5
20°	2484.1	2342.9	2290.6	2270.0	2271.5	2274.7	2293.7	2392.1	2615.8	2676.0	2664.9
22.5°	2501.5	2319.1	2255.7	2225.5	2230.3	2233.5	2262.0	2366.7	2533.3	2542.8	2520.6
25°	2420.6	2252.5	2184.3	2160.5	2166.8	2165.3	2190.6	2266.8	2385.8	2382.6	2369.9
27.5°	2300.1	2146.2	2095.5	2079.6	2090.7	2078.0	2085.9	2144.6	2236.6	2233.5	2228.7
30°	2176.4	2043.1	1997.1	1989.2	2003.5	1984.4	1986.0	2035.2	2098.6	2095.5	2093.9
32.5°	2052.6	1940.0	1898.8	1898.8	1913.0	1892.4	1895.6	1938.4	1981.3	1968.6	1968.6
35°	1935.2	1855.9	1822.6	1816.3	1827.4	1813.1	1819.5	1859.1	1875.0	1857.5	1846.4
37.5°	1832.1	1797.2	1763.9	1741.7	1743.3	1744.9	1763.9	1794.1	1784.6	1759.2	1744.9
40°	1737.0	1737.0	1705.2	1664.0	1659.2	1670.3	1702.1	1735.4	1708.4	1679.9	1662.4
42.5°	1668.8	1683.0	1652.9	1611.7	1602.1	1621.2	1656.1	1679.9	1648.1	1616.4	1592.6
45°	1605.3	1640.2	1619.6	1573.6	1560.9	1583.1	1627.5	1637.0	1594.2	1564.1	1546.6
47.5°	1560.9	1608.5	1594.2	1549.8	1530.8	1562.5	1608.5	1606.9	1553.0	1521.2	1507.0
50°	1529.2	1589.4	1587.9	1549.8	1529.2	1568.8	1610.1	1589.4	1530.8	1497.4	1483.2
52.5°	1503.8	1587.9	1599.0	1576.8	1562.5	1597.4	1622.8	1583.1	1514.9	1480.0	1468.9
55°	1492.7	1594.2	1602.1	1581.5	1568.8	1600.5	1622.8	1595.8	1514.9	1483.2	1473.6
57.5°	1495.9	1586.3	1587.9	1559.3	1537.1	1576.8	1611.7	1603.7	1532.3	1495.9	1484.7
60°	1476.8	1543.4	1546.6	1502.2	1476.8	1524.4	1586.3	1581.5	1524.4	1486.3	1465.7
62.5°	1413.4	1472.1	1473.6	1432.4	1395.9	1464.1	1532.3	1530.8	1478.4	1440.3	1416.5
65°	1307.1	1369.0	1384.8	1345.2	1316.6	1389.6	1461.0	1457.8	1405.4	1370.5	1346.7
67.5°	1175.4	1242.0	1272.2	1245.2	1234.1	1300.7	1367.4	1365.8	1322.9	1289.6	1269.0
70°	1015.2	1070.7	1121.5	1121.5	1113.6	1189.7	1261.1	1254.7	1215.1	1189.7	1173.8
72.5°	882.0	924.8	940.7	956.5	980.3	1059.6	1119.9	1124.7	1096.1	1083.4	1096.1
75°	750.3	777.3	791.5	778.9	820.1	902.6	981.9	989.8	959.7	939.1	943.8
77.5°	617.1	647.2	661.5	632.9	629.7	734.4	831.2	848.7	823.3	791.5	801.1
80°	445.7	485.4	509.2	490.2	483.8	529.8	663.1	682.1	658.3	632.9	647.2
82.5°	272.8	295.0	301.4	320.4	360.1	379.1	426.7	490.2	472.7	450.5	490.2
85°	107.9	128.5	142.8	161.8	188.8	223.7	263.3	314.1	285.5	276.0	325.2
87.5°	6.3	1.6	0.0	3.2	27.0	52.3	112.6	155.5	130.1	139.6	168.1
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°	2780.7	2780.7	2780.7	2780.7	2780.7	2780.7	2780.7	2780.7	2780.7	2780.7
2.5°	2574.5	2615.8	2671.3	2717.3	2776.0	2831.5	2888.6	2945.7	2975.8	2988.5
5°	2392.1	2468.2	2557.1	2655.4	2769.6	2890.2	3012.3	3137.6	3217.0	3223.3
7.5°	2282.6	2392.1	2514.2	2638.0	2779.1	2945.7	3139.2	3332.8	3413.7	3435.9
10°	2317.5	2439.7	2536.4	2652.2	2807.7	3015.5	3243.9	3470.8	3564.3	3591.3
12.5°	2457.1	2480.9	2511.1	2617.3	2807.7	3075.8	3351.8	3621.5	3721.4	3746.8
15°	2572.9	2458.7	2404.8	2517.4	2769.6	3128.1	3466.0	3764.2	3884.8	3908.6
17.5°	2582.4	2385.8	2268.4	2369.9	2703.0	3164.6	3575.5	3922.8	4024.4	4046.6
20°	2485.7	2308.0	2155.7	2217.6	2612.6	3180.5	3654.8	4038.6	4138.6	4160.8
22.5°	2376.2	2244.6	2079.6	2076.4	2503.1	3197.9	3749.9	4148.1	4256.0	4270.2
25°	2273.1	2157.3	2017.7	1973.3	2376.2	3231.2	3878.4	4313.1	4395.6	4400.3
27.5°	2152.6	2063.7	1968.6	1925.7	2265.2	3294.7	4068.8	4509.8	4558.9	4551.0
30°	2043.1	1976.5	1933.7	1921.0	2195.4	3342.3	4249.6	4703.3	4706.5	4679.5
32.5°	1927.3	1901.9	1901.9	1943.2	2138.3	3331.2	4397.1	4892.1	4861.9	4822.3
35°	1824.2	1829.0	1862.3	1959.0	2043.1	3220.1	4538.3	5128.4	5084.0	5026.9
37.5°	1725.9	1762.3	1809.9	1903.5	1917.8	3055.2	4703.3	5463.1	5407.6	5336.2
40°	1641.8	1697.3	1752.8	1798.8	1784.6	2820.4	4933.3	5856.5	5794.6	5712.2
42.5°	1575.2	1629.1	1691.0	1695.7	1700.5	2576.1	5177.6	6338.7	6327.6	6237.2
45°	1532.3	1567.2	1625.9	1618.0	1695.7	2306.4	5402.8	7074.8	7220.7	7152.5
47.5°	1503.8	1530.8	1537.1	1570.4	1737.0	2065.3	5693.1	8515.1	8921.2	8843.5
50°	1487.9	1514.9	1443.5	1573.6	1743.3	1909.9	6094.5	10323.4	10977.0	10873.9
52.5°	1486.3	1480.0	1372.1	1606.9	1708.4	1814.7	6303.8	11643.2	13093.1	13316.7
55°	1489.5	1410.2	1335.6	1616.4	1638.6	1779.8	5602.7	12277.7	15045.8	15518.5
57.5°	1461.0	1334.1	1356.3	1578.3	1507.0	1873.4	4141.8	12050.9	15826.2	16705.0
60°	1407.0	1261.1	1394.3	1475.2	1372.1	1713.2	2852.1	11038.9	15017.2	15921.4
62.5°	1329.3	1210.3	1389.6	1342.0	1322.9	1402.3	1960.6	9622.3	13733.9	14617.5
65°	1242.0	1169.1	1315.0	1213.5	1224.6	1078.7	1386.4	8023.4	12201.6	13070.9
67.5°	1148.5	1143.7	1205.6	1080.3	1034.2	855.0	1010.5	6430.7	10233.0	11016.6
70°	1042.2	1077.1	1096.1	959.7	839.1	671.0	750.3	4497.1	7549.1	8231.2
72.5°	935.9	939.1	966.0	834.4	628.2	537.7	563.1	2723.6	5128.4	5624.9
75°	828.0	797.9	823.3	678.9	467.9	441.0	434.6	1683.0	3542.1	3934.0
77.5°	712.2	678.9	645.6	510.8	375.9	341.0	333.1	943.8	2173.2	2414.3
80°	579.0	534.6	482.2	374.4	274.4	244.3	242.7	460.0	1083.4	1207.2
82.5°	450.5	366.4	352.2	233.2	169.7	149.1	158.6	176.1	326.8	364.8
85°	315.7	266.5	187.2	93.6	76.1	61.9	60.3	52.3	87.2	96.8
87.5°	176.1	115.8	60.3	11.1	12.7	14.3	11.1	7.9	7.9	7.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)