

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: P639531

Luminaire Tested: GWS-SA5C-722-U-SLR-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639531
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-SA5C-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: 16607.8 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

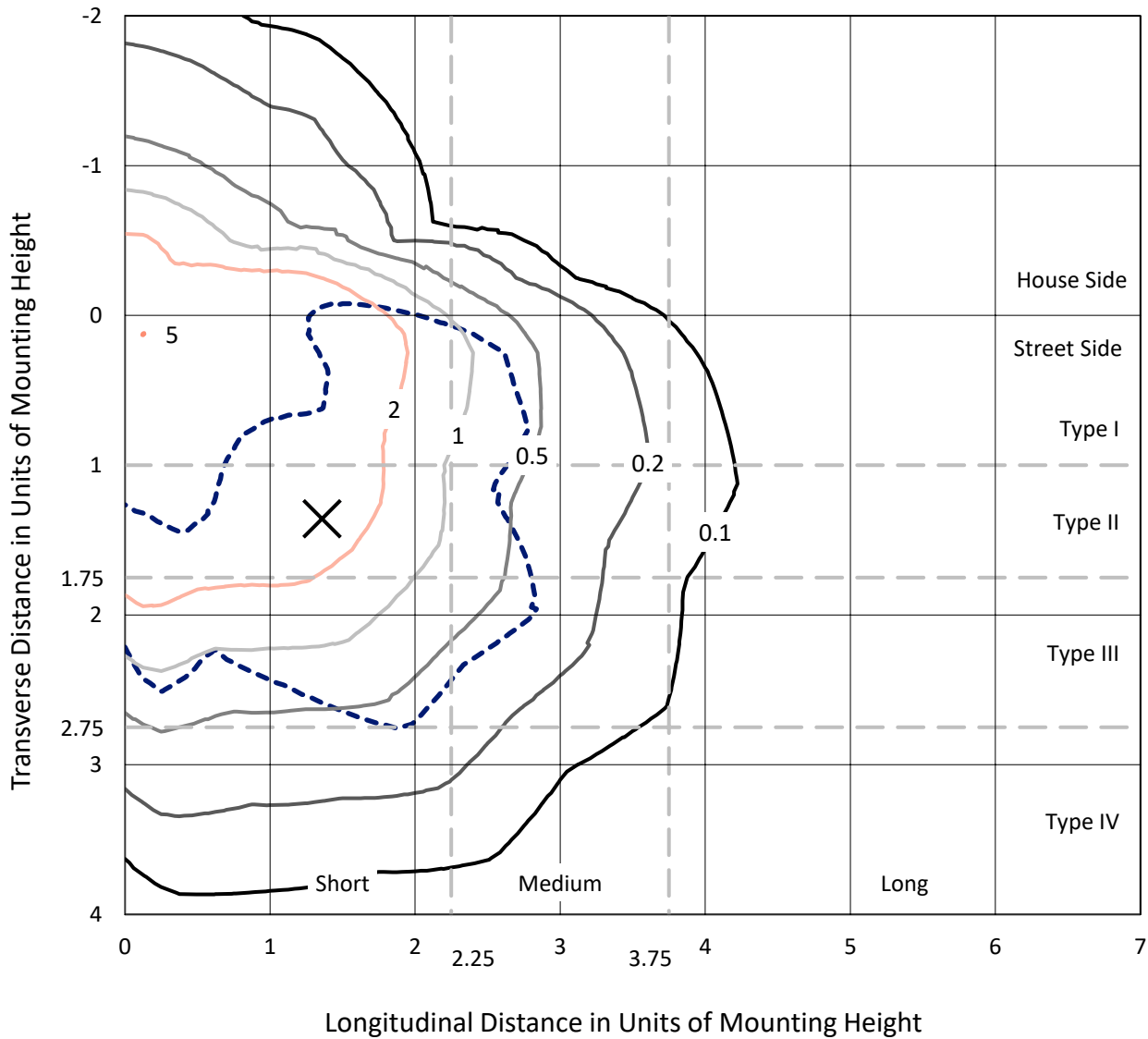
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

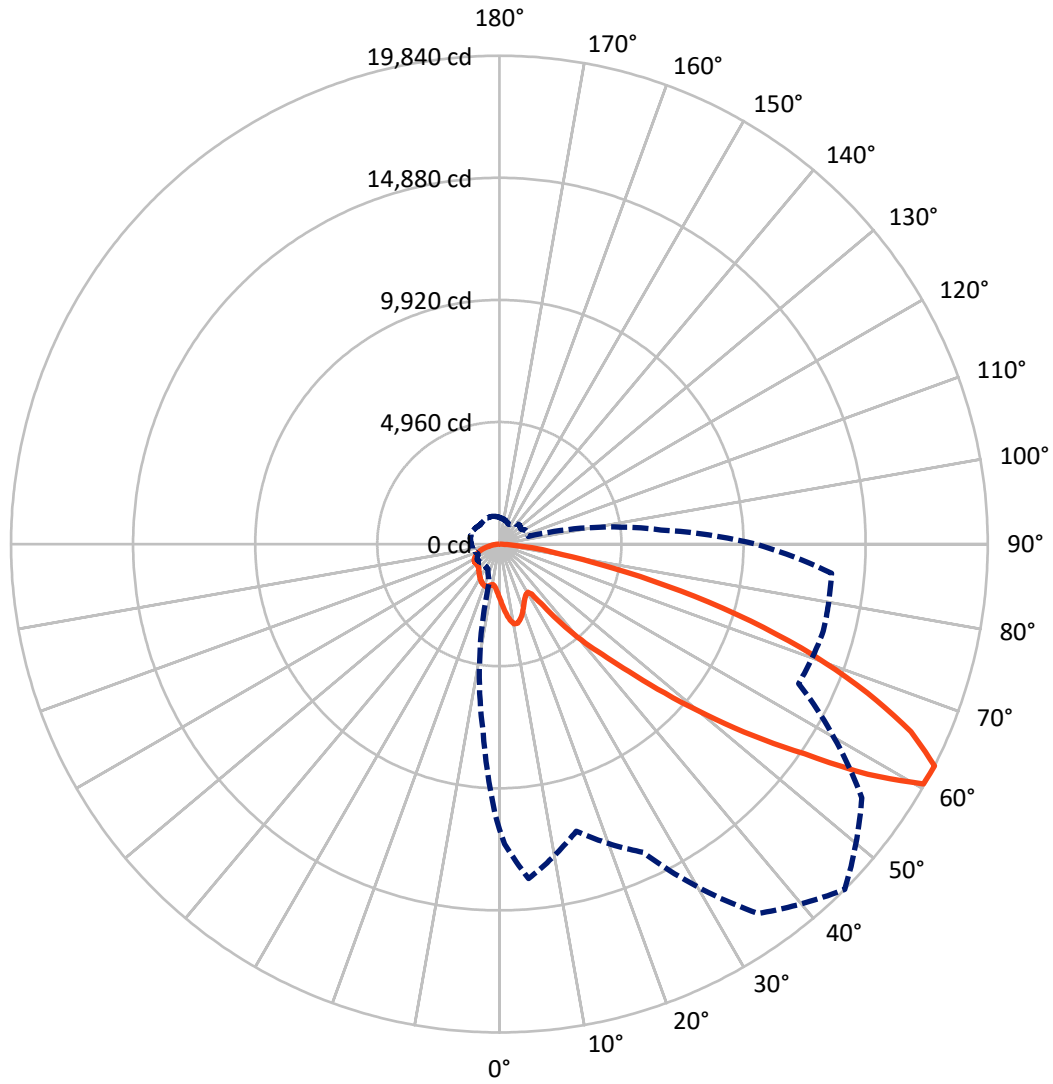
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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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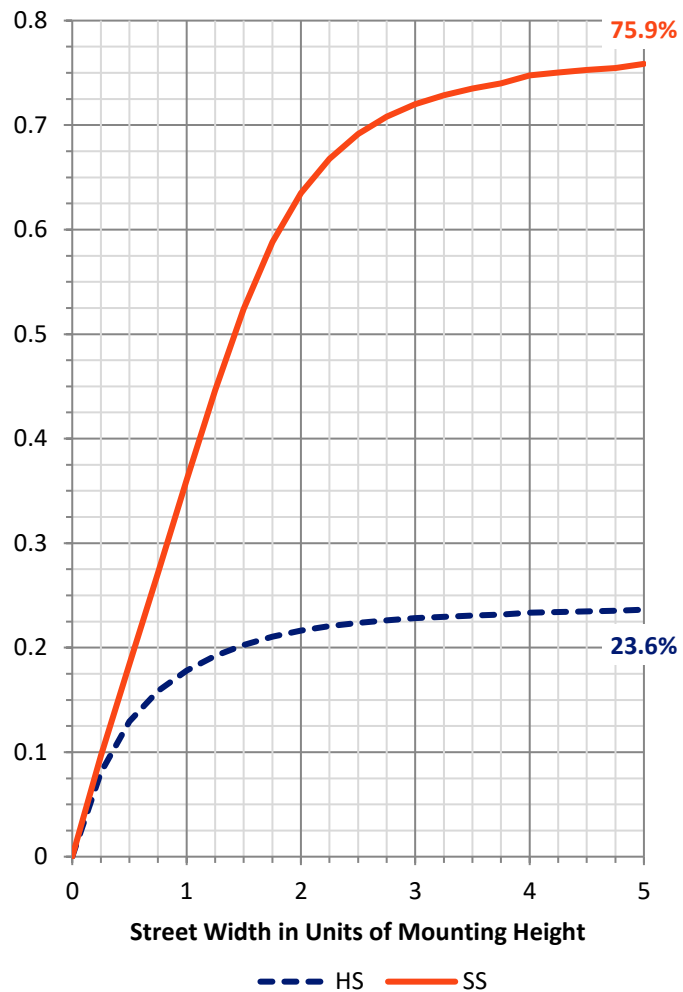
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3962.9	0.0	3962.9
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	12644.9	0.0	12644.9
	% Fixture	76.1	0.0	76.1
Total	Lumens	16607.8	0.0	16607.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.3	1.3
10°-20°	674.8	4.1
20°-30°	1048.2	6.3
30°-40°	1423.1	8.6
40°-50°	2255.5	13.6
50°-60°	3978.7	24.0
60°-70°	4427.0	26.7
70°-80°	2245.2	13.5
80°-90°	340.0	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°	16607.8	100.0
0°-180°	16607.8	100.0

Coefficient of Utilization



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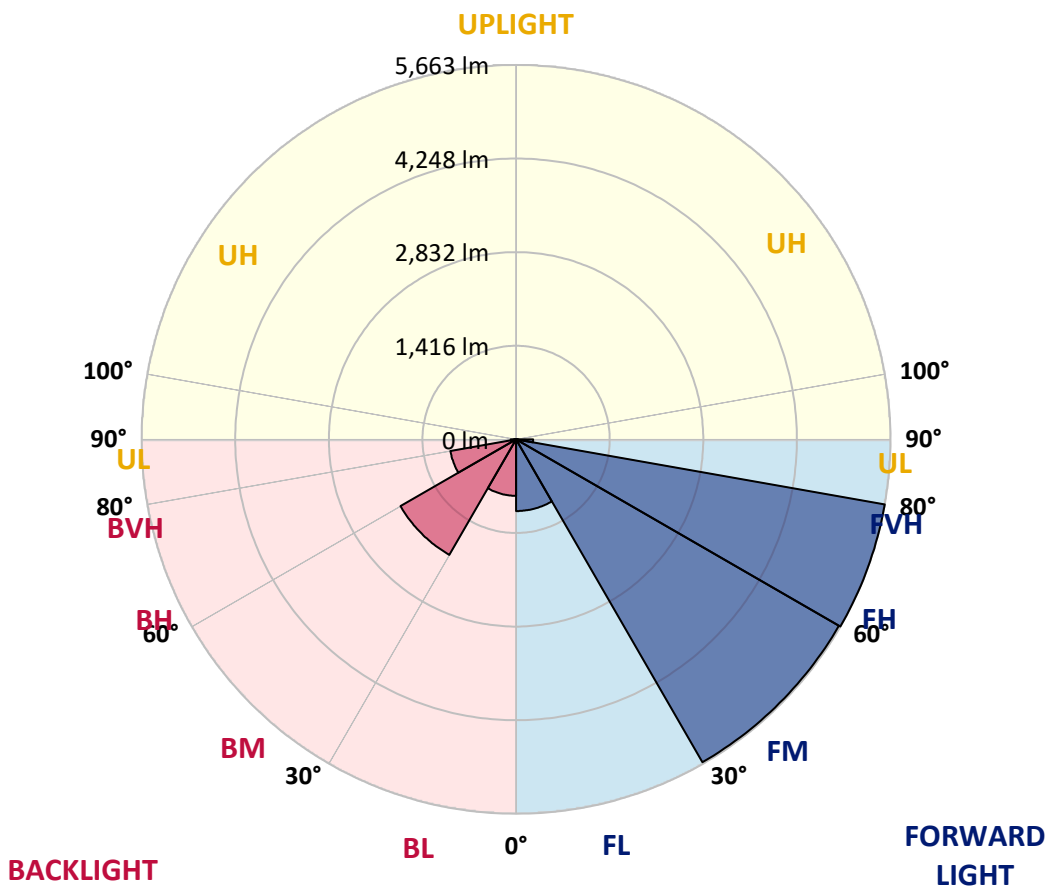
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1084.4	6.5			
FM (30°-60°)	5639.1	34.0			
FH (60°-80°)	5663.4	34.1			G3/7500
FVH (80°-90°)	258.0	1.6			G3/500
BL (0°-30°)	853.9	5.1	B2/1000		
BM (30°-60°)	2018.3	12.2	B2/2500		
BH (60°-80°)	1008.7	6.1	B3/2500		G3/2500
BVH (80°-90°)	81.9	0.5			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2204.2	2204.2	2204.2	2204.2	2204.2	2204.2	2204.2	2204.2	2204.2	2204.2	2204.2
2.5°	2368.9	2367.7	2391.5	2428.0	2462.0	2477.0	2502.2	2499.7	2479.6	2453.2	2444.4
5°	2555.0	2560.0	2601.5	2682.0	2771.3	2809.0	2825.3	2819.1	2782.6	2736.1	2654.3
7.5°	2723.5	2732.3	2796.4	2917.1	3027.8	3078.1	3118.3	3110.8	3058.0	2971.2	2850.5
10°	2846.7	2856.8	2933.5	3075.6	3198.8	3242.8	3294.3	3296.9	3250.3	3133.4	3010.2
12.5°	2969.9	2980.0	3051.7	3181.2	3261.7	3262.9	3293.1	3309.4	3311.9	3257.9	3134.7
15°	3098.2	3107.0	3172.4	3245.3	3241.5	3171.1	3171.1	3202.6	3271.7	3310.7	3225.2
17.5°	3207.6	3218.9	3269.2	3245.3	3133.4	3006.4	2991.3	3031.6	3152.3	3301.9	3293.1
20°	3298.1	3306.9	3334.6	3176.2	2972.5	2806.5	2777.6	2824.1	2987.5	3247.8	3344.6
22.5°	3384.9	3389.9	3374.8	3085.6	2798.9	2609.1	2573.9	2622.9	2798.9	3152.3	3388.6
25°	3488.0	3483.0	3411.3	2991.3	2640.5	2453.2	2416.7	2472.0	2655.6	3025.3	3436.4
27.5°	3607.4	3588.6	3442.7	2889.5	2518.5	2337.5	2312.3	2371.4	2542.4	2908.3	3474.2
30°	3709.3	3672.8	3447.7	2798.9	2455.7	2288.4	2273.4	2328.7	2487.1	2829.1	3521.9
32.5°	3822.4	3772.2	3476.7	2775.0	2490.9	2406.6	2426.8	2430.5	2502.2	2806.5	3593.6
35°	3984.6	3919.3	3555.9	2844.2	2853.0	2995.1	3068.0	2969.9	2729.8	2856.8	3729.4
37.5°	4229.8	4146.9	3716.8	3143.5	3601.1	3919.3	4095.3	3871.5	3421.3	3046.6	3934.4
40°	4527.8	4422.2	3923.0	3696.7	4300.3	4809.5	5122.6	4794.4	4133.0	3520.7	4222.3
42.5°	4944.0	4833.4	4322.9	4239.9	4947.8	5706.0	6114.7	5625.5	4760.5	4133.0	4683.8
45°	5669.5	5562.7	5055.9	4784.3	5706.0	6810.0	7383.4	6703.1	5397.9	4747.9	5546.3
47.5°	7009.9	6884.2	6144.8	5387.9	6571.1	8243.4	9045.6	8054.8	6060.6	5452.0	6994.8
50°	8619.4	8498.7	7511.6	6102.1	7526.7	9776.2	10891.5	9642.9	6823.8	6308.3	8726.2
52.5°	10555.7	10533.1	9461.8	7004.9	8521.3	11410.8	12939.7	11402.0	7660.0	7461.3	10687.8
55°	12301.0	12522.3	11938.9	8381.7	9806.3	13464.1	15045.9	13320.7	8794.1	9367.5	12985.0
57.5°	13241.5	13836.3	14732.8	11190.7	11674.8	15918.5	17644.9	15663.2	10743.1	12541.1	15115.0
60°	12620.4	13294.3	14918.9	13305.6	13528.2	17885.0	19790.0	17632.3	12656.8	14744.1	14994.3
62.5°	11586.8	12191.6	13636.3	12070.9	13814.9	18317.6	19840.3	17975.6	13417.5	13626.3	13544.5
65°	10360.8	10970.7	12500.9	10536.9	12903.3	17290.3	18376.7	16965.9	12050.8	12311.0	12341.2
67.5°	8732.5	9295.8	10853.7	9368.8	11761.6	15782.7	16129.7	15527.4	11097.7	11512.6	11078.8
70°	6524.6	7032.5	8408.1	7613.5	9914.5	13818.7	13538.3	13627.5	10027.6	10440.1	9254.3
72.5°	4458.7	4840.9	6020.4	5982.6	7592.1	11062.5	10671.4	11517.6	8375.4	8922.4	7055.2
75°	3118.3	3416.3	4351.8	4726.5	5738.7	8199.4	7599.6	8620.6	6540.9	7321.7	5147.7
77.5°	1913.7	2111.1	2748.6	3501.8	3691.7	5611.7	4720.2	6486.8	4593.2	5340.1	3433.9
80°	956.9	1052.4	1335.3	2201.7	2448.1	3306.9	2606.6	3765.9	3108.3	3306.9	1899.9
82.5°	289.2	319.4	391.0	836.2	1268.7	1903.7	1540.3	2187.8	1697.5	1550.4	748.1
85°	76.7	86.8	108.1	247.7	445.1	682.8	520.6	1060.0	813.5	572.1	281.7
87.5°	6.3	6.3	5.0	5.0	2.5	0.0	0.0	75.4	152.1	86.8	49.0
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°	2204.2	2204.2	2204.2	2204.2	2204.2	2204.2	2204.2	2204.2	2204.2	2204.2	2204.2
2.5°	2400.3	2395.3	2343.8	2306.0	2262.0	2219.3	2175.3	2136.3	2092.3	2048.3	2035.7
5°	2594.0	2558.8	2449.4	2357.6	2267.1	2187.8	2118.7	2047.0	1989.2	1932.6	1911.2
7.5°	2765.0	2703.4	2544.9	2405.4	2279.6	2181.6	2079.7	1975.4	1893.6	1813.1	1793.0
10°	2919.6	2837.9	2638.0	2462.0	2322.4	2210.5	2091.0	1951.5	1833.3	1735.2	1708.8
12.5°	3034.1	2944.8	2718.5	2516.0	2357.6	2231.9	2113.7	1990.4	1866.0	1739.0	1710.0
15°	3124.6	3031.6	2785.1	2557.5	2358.9	2196.6	2082.2	2039.5	2000.5	1876.0	1823.2
17.5°	3197.5	3099.5	2842.9	2582.7	2324.9	2089.8	1990.4	2053.3	2152.6	2074.7	1975.4
20°	3264.2	3164.8	2887.0	2600.3	2249.5	1942.7	1887.3	2020.6	2170.2	2167.7	2078.5
22.5°	3337.1	3240.3	2951.1	2610.3	2143.8	1793.0	1825.7	1972.8	2094.8	2131.3	2075.9
25°	3430.1	3344.6	3040.4	2633.0	2024.4	1689.9	1780.5	1911.2	2013.1	2021.9	1989.2
27.5°	3538.3	3474.2	3173.6	2685.8	1908.7	1637.1	1727.6	1824.5	1917.5	1921.3	1882.3
30°	3656.5	3613.7	3296.9	2729.8	1821.9	1620.8	1659.7	1737.7	1796.8	1806.9	1772.9
32.5°	3807.4	3769.6	3406.3	2700.9	1770.4	1617.0	1596.9	1637.1	1686.2	1686.2	1659.7
35°	4014.8	3962.0	3521.9	2590.2	1707.5	1601.9	1530.2	1541.6	1562.9	1566.7	1551.6
37.5°	4309.1	4222.3	3638.9	2371.4	1604.4	1547.8	1453.5	1439.7	1447.2	1457.3	1453.5
40°	4673.7	4531.6	3809.9	2108.6	1481.2	1443.5	1374.3	1347.9	1341.6	1361.7	1369.3
42.5°	5132.6	4915.1	3993.5	1863.4	1369.3	1324.0	1281.3	1258.6	1248.6	1282.5	1302.6
45°	5865.7	5507.3	4169.5	1620.8	1306.4	1222.2	1193.3	1176.9	1181.9	1222.2	1247.3
47.5°	7131.9	6411.4	4336.7	1467.4	1301.4	1149.2	1114.0	1117.8	1131.6	1174.4	1204.6
50°	8733.8	7622.3	4448.6	1403.2	1316.5	1105.2	1058.7	1078.8	1100.2	1141.7	1176.9
52.5°	10364.6	8750.1	4315.3	1368.0	1315.2	1106.5	1007.2	1067.5	1077.6	1119.1	1156.8
55°	11486.2	8875.9	3728.1	1314.0	1295.1	1156.8	966.9	1062.5	1068.8	1106.5	1140.4
57.5°	11913.7	8445.8	2842.9	1329.1	1234.8	1195.8	949.3	1027.3	1072.5	1105.2	1140.4
60°	11396.9	7634.8	1727.6	1368.0	1137.9	1193.3	960.6	963.2	1041.1	1096.4	1131.6
62.5°	10422.5	6593.7	1213.4	1257.4	1067.5	1126.6	987.0	887.7	985.8	1052.4	1083.9
65°	9305.9	5369.0	925.4	1082.6	1033.6	1023.5	995.8	821.1	910.3	975.7	1003.4
67.5°	8142.8	4173.3	751.9	807.2	934.2	925.4	910.3	762.0	821.1	867.6	899.0
70°	6678.0	2919.6	635.0	606.1	801.0	829.9	795.9	687.8	706.6	754.4	779.6
72.5°	4884.9	1819.4	521.8	500.4	643.8	725.5	707.9	606.1	614.9	660.1	680.2
75°	3513.1	1041.1	418.7	412.4	491.6	621.1	585.9	521.8	531.9	565.8	579.7
77.5°	2233.1	579.7	323.1	331.9	352.1	464.0	500.4	446.4	446.4	466.5	477.8
80°	1195.8	331.9	236.4	240.2	246.4	354.6	394.8	345.8	345.8	331.9	345.8
82.5°	487.9	191.1	162.2	150.9	164.7	242.7	276.6	220.0	230.1	207.5	212.5
85°	160.9	95.6	80.5	79.2	78.0	106.9	133.3	109.4	130.8	83.0	86.8
87.5°	21.4	17.6	10.1	7.5	8.8	3.8	7.5	8.8	8.8	6.3	6.3
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°	2204.2	2204.2	2204.2	2204.2	2204.2	2204.2	2204.2	2204.2	2204.2	2204.2	2204.2
2.5°	2026.9	2016.8	1980.4	1989.2	1982.9	1972.8	1982.9	1964.0	1979.1	1984.2	2015.6
5°	1894.9	1871.0	1835.8	1818.2	1814.4	1804.3	1805.6	1796.8	1799.3	1820.7	1855.9
7.5°	1776.7	1754.1	1726.4	1713.8	1702.5	1691.2	1689.9	1688.7	1698.7	1717.6	1751.5
10°	1691.2	1678.6	1667.3	1672.3	1667.3	1662.3	1653.5	1653.5	1669.8	1703.8	1745.2
12.5°	1691.2	1688.7	1691.2	1706.3	1705.0	1706.3	1695.0	1701.2	1746.5	1804.3	1863.4
15°	1781.7	1761.6	1761.6	1769.1	1766.6	1766.6	1766.6	1793.0	1896.1	1985.4	2048.3
17.5°	1892.4	1833.3	1808.1	1804.3	1803.1	1803.1	1808.1	1864.7	2025.6	2119.9	2156.4
20°	1969.1	1857.2	1815.7	1799.3	1800.6	1803.1	1818.2	1896.1	2073.4	2121.2	2112.4
22.5°	1982.9	1838.3	1788.0	1764.1	1767.9	1770.4	1793.0	1876.0	2008.0	2015.6	1998.0
25°	1918.8	1785.5	1731.4	1712.6	1717.6	1716.3	1736.4	1796.8	1891.1	1888.6	1878.5
27.5°	1823.2	1701.2	1661.0	1648.4	1657.2	1647.2	1653.5	1700.0	1772.9	1770.4	1766.6
30°	1725.1	1619.5	1583.0	1576.8	1588.1	1573.0	1574.2	1613.2	1663.5	1661.0	1659.7
32.5°	1627.1	1537.8	1505.1	1505.1	1516.4	1500.1	1502.6	1536.5	1570.5	1560.4	1560.4
35°	1534.0	1471.1	1444.7	1439.7	1448.5	1437.2	1442.2	1473.7	1486.2	1472.4	1463.6
37.5°	1452.3	1424.6	1398.2	1380.6	1381.9	1383.1	1398.2	1422.1	1414.6	1394.4	1383.1
40°	1376.8	1376.8	1351.7	1319.0	1315.2	1324.0	1349.2	1375.6	1354.2	1331.6	1317.7
42.5°	1322.8	1334.1	1310.2	1277.5	1270.0	1285.0	1312.7	1331.6	1306.4	1281.3	1262.4
45°	1272.5	1300.1	1283.8	1247.3	1237.3	1254.9	1290.1	1297.6	1263.7	1239.8	1225.9
47.5°	1237.3	1275.0	1263.7	1228.5	1213.4	1238.5	1275.0	1273.7	1231.0	1205.8	1194.5
50°	1212.1	1259.9	1258.6	1228.5	1212.1	1243.6	1276.2	1259.9	1213.4	1187.0	1175.7
52.5°	1192.0	1258.6	1267.4	1249.8	1238.5	1266.2	1286.3	1254.9	1200.8	1173.1	1164.3
55°	1183.2	1263.7	1270.0	1253.6	1243.6	1268.7	1286.3	1264.9	1200.8	1175.7	1168.1
57.5°	1185.7	1257.4	1258.6	1236.0	1218.4	1249.8	1277.5	1271.2	1214.6	1185.7	1176.9
60°	1170.6	1223.4	1225.9	1190.7	1170.6	1208.3	1257.4	1253.6	1208.3	1178.2	1161.8
62.5°	1120.3	1166.9	1168.1	1135.4	1106.5	1160.6	1214.6	1213.4	1171.9	1141.7	1122.8
65°	1036.1	1085.1	1097.7	1066.3	1043.6	1101.5	1158.1	1155.5	1114.0	1086.4	1067.5
67.5°	931.7	984.5	1008.4	987.0	978.2	1031.1	1083.9	1082.6	1048.7	1022.3	1005.9
70°	804.7	848.7	889.0	889.0	882.7	943.0	999.6	994.6	963.2	943.0	930.5
72.5°	699.1	733.1	745.6	758.2	777.1	839.9	887.7	891.5	868.9	858.8	868.9
75°	594.7	616.1	627.4	617.4	650.1	715.5	778.3	784.6	760.7	744.4	748.1
77.5°	489.1	513.0	524.3	501.7	499.2	582.2	658.9	672.7	652.6	627.4	635.0
80°	353.3	384.8	403.6	388.5	383.5	420.0	525.6	540.7	521.8	501.7	513.0
82.5°	216.3	233.9	238.9	254.0	285.4	300.5	338.2	388.5	374.7	357.1	388.5
85°	85.5	101.8	113.2	128.3	149.6	177.3	208.7	249.0	226.3	218.8	257.8
87.5°	5.0	1.3	0.0	2.5	21.4	41.5	89.3	123.2	103.1	110.6	133.3
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2204.2	2204.2	2204.2	2204.2	2204.2	2204.2	2204.2	2204.2	2204.2	2204.2
2.5°	2040.7	2073.4	2117.4	2153.9	2200.4	2244.4	2289.7	2335.0	2358.9	2368.9
5°	1896.1	1956.5	2026.9	2104.9	2195.4	2291.0	2387.8	2487.1	2550.0	2555.0
7.5°	1809.4	1896.1	1993.0	2091.0	2202.9	2335.0	2488.4	2641.8	2705.9	2723.5
10°	1837.0	1933.9	2010.6	2102.3	2225.6	2390.3	2571.4	2751.2	2825.3	2846.7
12.5°	1947.7	1966.5	1990.4	2074.7	2225.6	2438.1	2656.9	2870.6	2949.8	2969.9
15°	2039.5	1948.9	1906.2	1995.5	2195.4	2479.6	2747.4	2983.8	3079.3	3098.2
17.5°	2047.0	1891.1	1798.1	1878.5	2142.6	2508.5	2834.1	3109.5	3190.0	3207.6
20°	1970.3	1829.5	1708.8	1757.8	2070.9	2521.1	2897.0	3201.3	3280.5	3298.1
22.5°	1883.6	1779.2	1648.4	1645.9	1984.2	2534.9	2972.5	3288.1	3373.6	3384.9
25°	1801.8	1710.0	1599.4	1564.2	1883.6	2561.3	3074.3	3418.8	3484.2	3488.0
27.5°	1706.3	1635.9	1560.4	1526.5	1795.5	2611.6	3225.2	3574.7	3613.7	3607.4
30°	1619.5	1566.7	1532.8	1522.7	1740.2	2649.3	3368.5	3728.1	3730.7	3709.3
32.5°	1527.7	1507.6	1507.6	1540.3	1695.0	2640.5	3485.5	3877.8	3853.9	3822.4
35°	1446.0	1449.8	1476.2	1552.9	1619.5	2552.5	3597.4	4065.1	4029.9	3984.6
37.5°	1368.0	1397.0	1434.7	1508.9	1520.2	2421.7	3728.1	4330.4	4286.4	4229.8
40°	1301.4	1345.4	1389.4	1425.9	1414.6	2235.6	3910.5	4642.3	4593.2	4527.8
42.5°	1248.6	1291.3	1340.4	1344.1	1347.9	2042.0	4104.1	5024.5	5015.7	4944.0
45°	1214.6	1242.3	1288.8	1282.5	1344.1	1828.2	4282.7	5607.9	5723.6	5669.5
47.5°	1192.0	1213.4	1218.4	1244.8	1376.8	1637.1	4512.8	6749.6	7071.5	7009.9
50°	1179.4	1200.8	1144.2	1247.3	1381.9	1513.9	4830.9	8183.1	8701.1	8619.4
52.5°	1178.2	1173.1	1087.6	1273.7	1354.2	1438.4	4996.8	9229.2	10378.4	10555.7
55°	1180.7	1117.8	1058.7	1281.3	1298.9	1410.8	4441.1	9732.2	11926.3	12301.0
57.5°	1158.1	1057.5	1075.1	1251.1	1194.5	1485.0	3283.0	9552.3	12544.9	13241.5
60°	1115.3	999.6	1105.2	1169.4	1087.6	1358.0	2260.8	8750.1	11903.7	12620.4
62.5°	1053.7	959.4	1101.5	1063.7	1048.7	1111.5	1554.1	7627.3	10886.4	11586.8
65°	984.5	926.7	1042.4	961.9	970.7	855.0	1099.0	6359.8	9671.8	10360.8
67.5°	910.3	906.6	955.6	856.3	819.8	677.7	801.0	5097.4	8111.4	8732.5
70°	826.1	853.8	868.9	760.7	665.2	531.9	594.7	3564.7	5983.9	6524.6
72.5°	741.9	744.4	765.7	661.4	497.9	426.3	446.4	2158.9	4065.1	4458.7
75°	656.4	632.5	652.6	538.2	370.9	349.6	344.5	1334.1	2807.7	3118.3
77.5°	564.6	538.2	511.8	404.9	298.0	270.3	264.1	748.1	1722.6	1913.7
80°	458.9	423.7	382.2	296.7	217.5	193.6	192.4	364.6	858.8	956.9
82.5°	357.1	290.5	279.1	184.8	134.5	118.2	125.7	139.6	259.0	289.2
85°	250.2	211.2	148.4	74.2	60.4	49.0	47.8	41.5	69.2	76.7
87.5°	139.6	91.8	47.8	8.8	10.1	11.3	8.8	6.3	6.3	6.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)