

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: P639036

Luminaire Tested: GWS-SA5B-722-U-SLR-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639036
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-SA5B-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: 12383.6 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

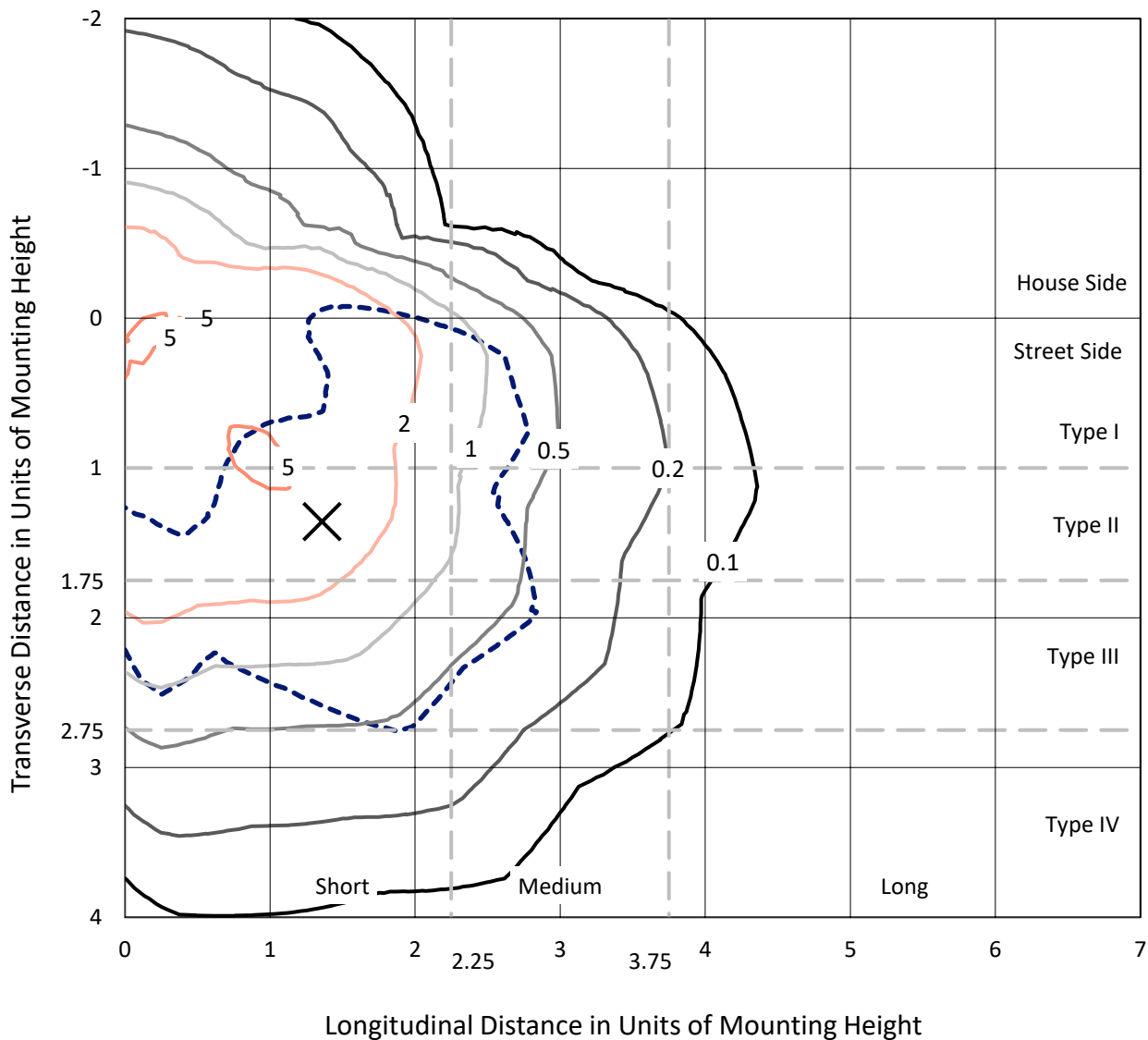
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

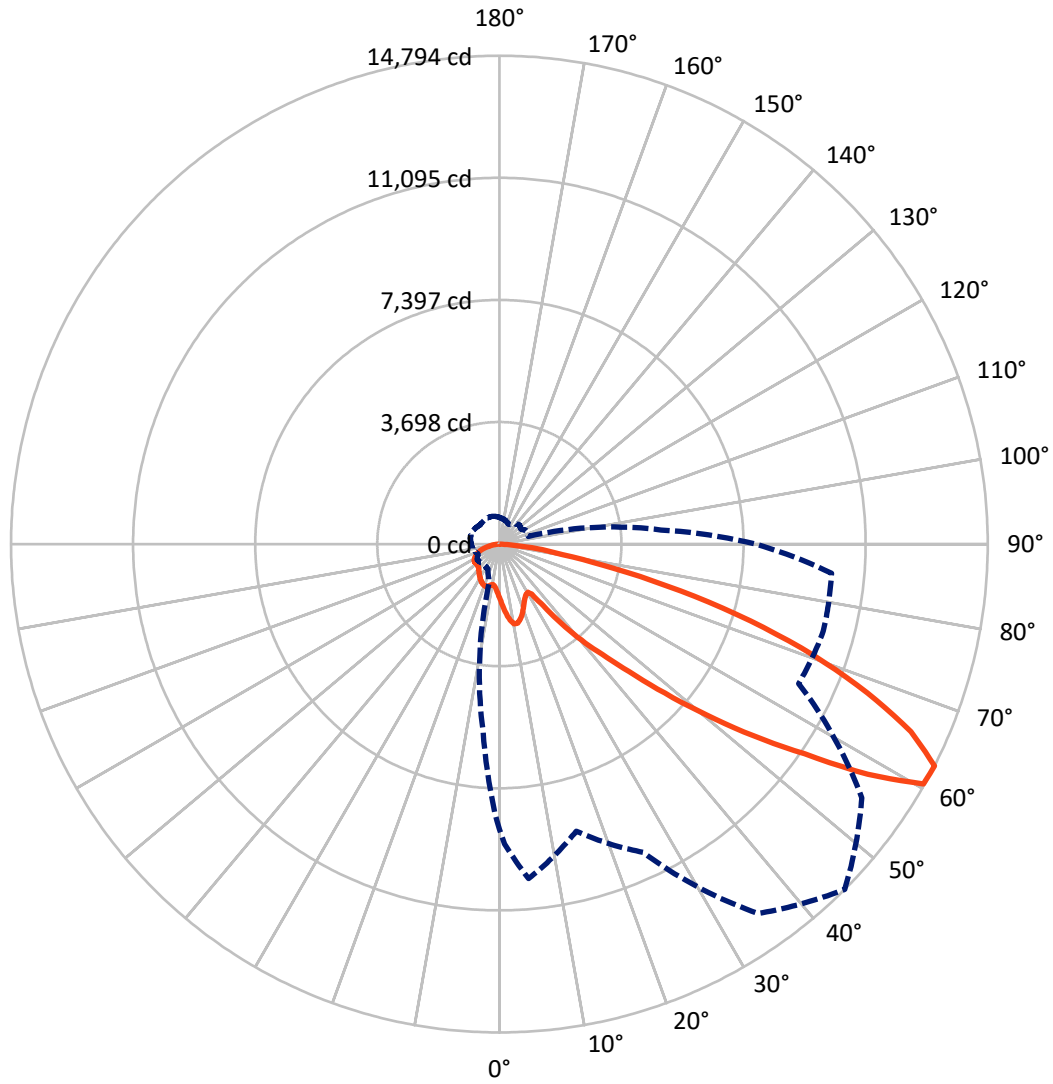
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.9 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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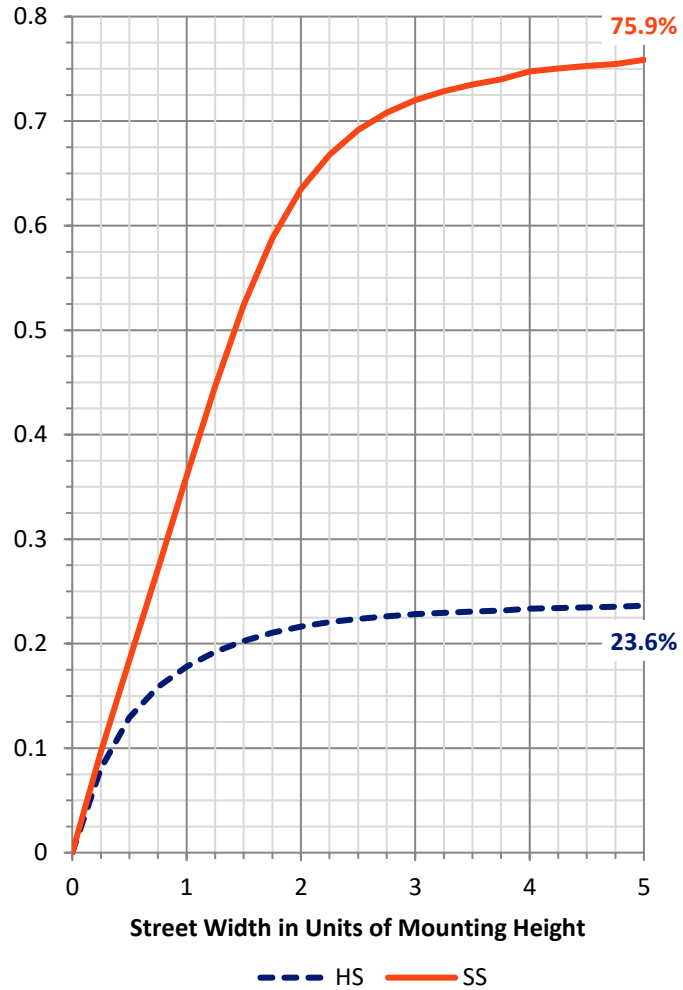
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2955.0	0.0	2955.0
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	9428.6	0.0	9428.6
	% Fixture	76.1	0.0	76.1
Total	Lumens	12383.6	0.0	12383.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.5	1.3
10°-20°	503.2	4.1
20°-30°	781.6	6.3
30°-40°	1061.2	8.6
40°-50°	1681.8	13.6
50°-60°	2966.8	24.0
60°-70°	3301.0	26.7
70°-80°	1674.1	13.5
80°-90°	253.5	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°	12383.6	100.0
0°-180°	12383.6	100.0

Coefficient of Utilization



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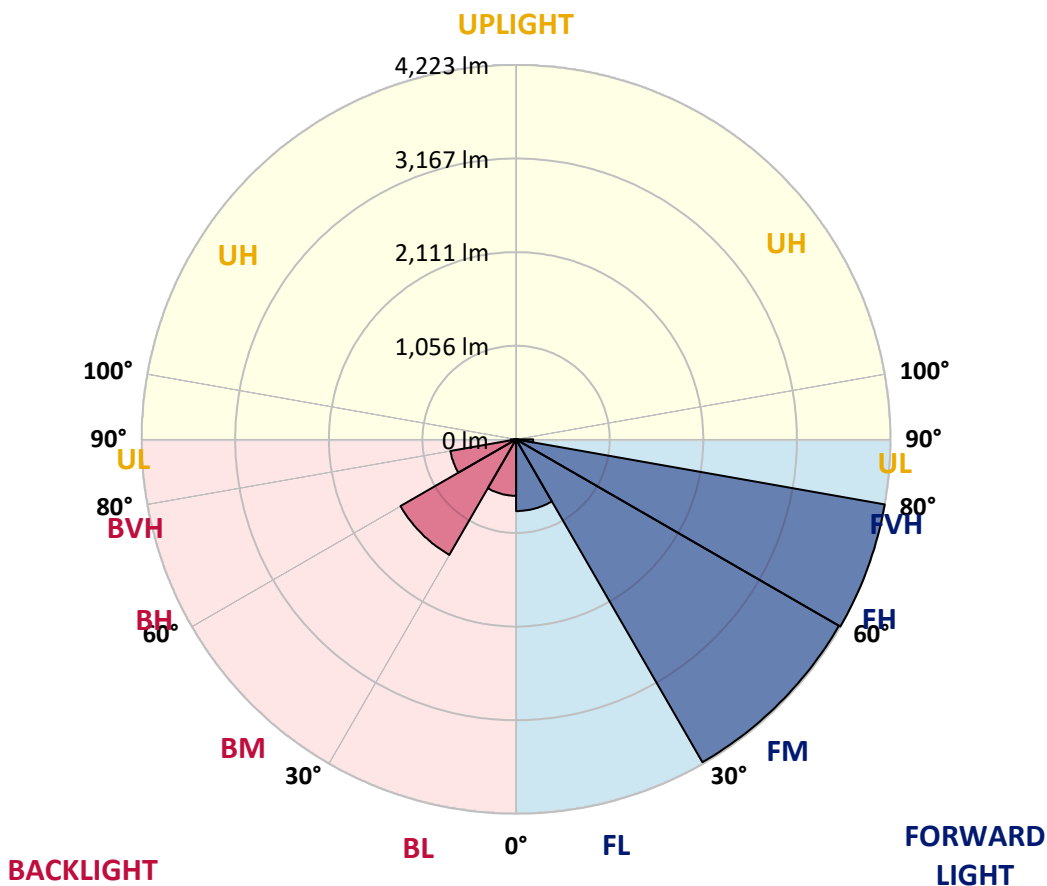
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	808.5	6.5			
FM (30°-60°)	4204.8	34.0			
FH (60°-80°)	4222.9	34.1			G2/5000
FVH (80°-90°)	192.4	1.6			G2/225
BL (0°-30°)	636.7	5.1	B2/1000		
BM (30°-60°)	1505.0	12.2	B2/2500		
BH (60°-80°)	752.2	6.1	B2/1000		G2/1000
BVH (80°-90°)	61.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6
2.5°	1766.4	1765.4	1783.3	1810.4	1835.8	1847.0	1865.8	1863.9	1848.9	1829.2	1822.6
5°	1905.1	1908.9	1939.8	1999.8	2066.4	2094.5	2106.7	2102.0	2074.8	2040.1	1979.2
7.5°	2030.8	2037.3	2085.2	2175.2	2257.7	2295.2	2325.2	2319.5	2280.2	2215.5	2125.5
10°	2122.7	2130.2	2187.3	2293.3	2385.2	2418.0	2456.4	2458.3	2423.6	2336.4	2244.5
12.5°	2214.5	2222.0	2275.5	2372.0	2432.1	2433.0	2455.5	2467.7	2469.6	2429.2	2337.4
15°	2310.2	2316.7	2365.5	2419.9	2417.1	2364.5	2364.5	2388.0	2439.6	2468.6	2404.9
17.5°	2391.7	2400.2	2437.7	2419.9	2336.4	2241.7	2230.5	2260.5	2350.5	2462.1	2455.5
20°	2459.2	2465.8	2486.4	2368.3	2216.4	2092.7	2071.1	2105.8	2227.7	2421.7	2493.9
22.5°	2523.9	2527.7	2516.4	2300.8	2087.0	1945.5	1919.2	1955.8	2087.0	2350.5	2526.7
25°	2600.8	2597.1	2543.6	2230.5	1968.9	1829.2	1802.0	1843.3	1980.1	2255.8	2562.4
27.5°	2689.9	2675.8	2567.1	2154.5	1877.9	1742.9	1724.2	1768.3	1895.8	2168.6	2590.5
30°	2765.8	2738.6	2570.8	2087.0	1831.1	1706.4	1695.1	1736.4	1854.5	2109.5	2626.1
32.5°	2850.2	2812.7	2592.4	2069.2	1857.3	1794.5	1809.5	1812.3	1865.8	2092.7	2679.6
35°	2971.2	2922.4	2651.4	2120.8	2127.3	2233.3	2287.7	2214.5	2035.5	2130.2	2780.8
37.5°	3154.0	3092.1	2771.5	2343.9	2685.2	2922.4	3053.7	2886.8	2551.1	2271.7	2933.7
40°	3376.2	3297.4	2925.2	2756.4	3206.5	3586.2	3819.7	3574.9	3081.8	2625.2	3148.4
42.5°	3686.5	3604.0	3223.4	3161.5	3689.3	4254.7	4559.4	4194.7	3549.6	3081.8	3492.4
45°	4227.5	4147.8	3770.0	3567.4	4254.7	5077.9	5505.4	4998.2	4025.0	3540.3	4135.6
47.5°	5226.9	5133.2	4581.9	4017.5	4899.7	6146.7	6744.9	6006.1	4519.1	4065.3	5215.7
50°	6427.0	6337.0	5601.0	4550.0	5612.3	7289.6	8121.2	7190.2	5088.2	4703.8	6506.7
52.5°	7870.9	7854.0	7055.2	5223.2	6353.9	8508.4	9648.5	8501.9	5711.7	5563.5	7969.3
55°	9172.2	9337.2	8902.2	6249.8	7312.1	10039.5	11218.9	9932.6	6557.4	6984.9	9682.3
57.5°	9873.5	10317.0	10985.5	8344.4	8705.3	11869.6	13156.9	11679.3	8010.6	9351.3	11270.5
60°	9410.4	9912.9	11124.2	9921.3	10087.3	13336.0	14756.4	13147.5	9437.6	10993.9	11180.5
62.5°	8639.7	9090.7	10167.9	9000.7	10301.1	13658.5	14793.9	13403.5	10004.8	10160.4	10099.5
65°	7725.6	8180.3	9321.3	7856.8	9621.3	12892.5	13702.6	12650.6	8985.7	9179.7	9202.2
67.5°	6511.4	6931.4	8093.1	6985.8	8770.0	11768.4	12027.1	11578.0	8275.0	8584.4	8260.9
70°	4865.0	5243.8	6269.5	5677.0	7392.7	10303.9	10094.8	10161.4	7477.1	7784.6	6900.5
72.5°	3324.6	3609.6	4489.1	4460.9	5661.0	8248.7	7957.1	8588.1	6245.1	6653.0	5260.7
75°	2325.2	2547.4	3244.9	3524.3	4279.1	6113.9	5666.7	6428.0	4877.2	5459.5	3838.4
77.5°	1427.0	1574.2	2049.5	2611.1	2752.7	4184.4	3519.6	4836.9	3424.9	3981.9	2560.5
80°	713.5	784.7	995.7	1641.7	1825.4	2465.8	1943.6	2808.0	2317.7	2465.8	1416.7
82.5°	215.6	238.1	291.6	623.5	946.0	1419.5	1148.5	1631.4	1265.7	1156.0	557.9
85°	57.2	64.7	80.6	184.7	331.9	509.1	388.2	790.4	606.6	426.6	210.0
87.5°	4.7	4.7	3.8	3.8	1.9	0.0	0.0	56.3	113.4	64.7	36.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6
2.5°	1789.8	1786.1	1747.6	1719.5	1686.7	1654.8	1622.0	1592.9	1560.1	1527.3	1517.9
5°	1934.2	1908.0	1826.4	1757.9	1690.4	1631.4	1579.8	1526.4	1483.2	1441.0	1425.1
7.5°	2061.7	2015.8	1897.6	1793.6	1699.8	1626.7	1550.7	1472.9	1412.0	1352.0	1337.0
10°	2177.0	2116.1	1967.0	1835.8	1731.7	1648.2	1559.2	1455.1	1367.0	1293.8	1274.2
12.5°	2262.4	2195.8	2027.0	1876.1	1757.9	1664.2	1576.1	1484.2	1391.4	1296.7	1275.1
15°	2329.9	2260.5	2076.7	1907.0	1758.9	1637.9	1552.6	1520.7	1491.7	1398.9	1359.5
17.5°	2384.2	2311.1	2119.8	1925.8	1733.6	1558.2	1484.2	1531.0	1605.1	1547.0	1472.9
20°	2433.9	2359.9	2152.7	1938.9	1677.3	1448.5	1407.3	1506.7	1618.2	1616.4	1549.8
22.5°	2488.3	2416.1	2200.5	1946.4	1598.6	1337.0	1361.3	1471.0	1562.0	1589.2	1547.9
25°	2557.7	2493.9	2267.0	1963.3	1509.5	1260.1	1327.6	1425.1	1501.0	1507.6	1483.2
27.5°	2638.3	2590.5	2366.4	2002.6	1423.2	1220.7	1288.2	1360.4	1429.8	1432.6	1403.5
30°	2726.4	2694.6	2458.3	2035.5	1358.5	1208.5	1237.6	1295.7	1339.8	1347.3	1322.0
32.5°	2839.0	2810.8	2539.9	2013.9	1320.1	1205.7	1190.7	1220.7	1257.3	1257.3	1237.6
35°	2993.7	2954.3	2626.1	1931.4	1273.2	1194.5	1141.0	1149.5	1165.4	1168.2	1157.0
37.5°	3213.0	3148.4	2713.3	1768.3	1196.3	1154.1	1083.8	1073.5	1079.1	1086.6	1083.8
40°	3484.9	3379.0	2840.8	1572.3	1104.5	1076.3	1024.8	1005.1	1000.4	1015.4	1021.0
42.5°	3827.2	3665.0	2977.7	1389.5	1021.0	987.3	955.4	938.5	931.0	956.3	971.3
45°	4373.8	4106.5	3109.0	1208.5	974.1	911.3	889.8	877.6	881.3	911.3	930.1
47.5°	5317.9	4780.7	3233.7	1094.1	970.4	856.9	830.7	833.5	843.8	875.7	898.2
50°	6512.3	5683.5	3317.1	1046.3	981.6	824.1	789.4	804.4	820.4	851.3	877.6
52.5°	7728.4	6524.5	3217.7	1020.1	980.7	825.1	751.0	796.0	803.5	834.4	862.6
55°	8564.7	6618.3	2779.9	979.8	965.7	862.6	721.0	792.2	796.9	825.1	850.4
57.5°	8883.5	6297.6	2119.8	991.0	920.7	891.6	707.9	766.0	799.7	824.1	850.4
60°	8498.1	5692.9	1288.2	1020.1	848.5	889.8	716.3	718.2	776.3	817.6	843.8
62.5°	7771.5	4916.6	904.8	937.6	796.0	840.1	736.0	661.9	735.1	784.7	808.2
65°	6938.9	4003.4	690.1	807.2	770.7	763.2	742.6	612.2	678.8	727.6	748.2
67.5°	6071.7	3111.8	560.7	601.9	696.6	690.1	678.8	568.2	612.2	646.9	670.4
70°	4979.4	2177.0	473.5	451.9	597.2	618.8	593.5	512.8	526.9	562.5	581.3
72.5°	3642.5	1356.7	389.1	373.2	480.0	541.0	527.9	451.9	458.5	492.2	507.2
75°	2619.6	776.3	312.2	307.5	366.6	463.2	436.9	389.1	396.6	421.9	432.2
77.5°	1665.1	432.2	241.0	247.5	262.5	346.0	373.2	332.8	332.8	347.8	356.3
80°	891.6	247.5	176.3	179.1	183.8	264.4	294.4	257.8	257.8	247.5	257.8
82.5°	363.8	142.5	120.9	112.5	122.8	181.0	206.3	164.1	171.6	154.7	158.4
85°	120.0	71.3	60.0	59.1	58.1	79.7	99.4	81.6	97.5	61.9	64.7
87.5°	15.9	13.1	7.5	5.6	6.6	2.8	5.6	6.6	6.6	4.7	4.7
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6
2.5°	1511.4	1503.9	1476.7	1483.2	1478.5	1471.0	1478.5	1464.5	1475.7	1479.5	1502.9
5°	1412.9	1395.1	1368.8	1355.7	1352.9	1345.4	1346.3	1339.8	1341.7	1357.6	1383.9
7.5°	1324.8	1307.9	1287.3	1277.9	1269.5	1261.0	1260.1	1259.2	1266.7	1280.7	1306.0
10°	1261.0	1251.7	1243.2	1247.0	1243.2	1239.5	1232.9	1232.9	1245.1	1270.4	1301.3
12.5°	1261.0	1259.2	1261.0	1272.3	1271.3	1272.3	1263.8	1268.5	1302.3	1345.4	1389.5
15°	1328.5	1313.5	1313.5	1319.2	1317.3	1317.3	1317.3	1337.0	1413.9	1480.4	1527.3
17.5°	1411.0	1367.0	1348.2	1345.4	1344.5	1344.5	1348.2	1390.4	1510.4	1580.7	1607.9
20°	1468.2	1384.8	1353.8	1341.7	1342.6	1344.5	1355.7	1413.9	1546.0	1581.7	1575.1
22.5°	1478.5	1370.7	1333.2	1315.4	1318.2	1320.1	1337.0	1398.9	1497.3	1502.9	1489.8
25°	1430.7	1331.3	1291.0	1277.0	1280.7	1279.8	1294.8	1339.8	1410.1	1408.2	1400.7
27.5°	1359.5	1268.5	1238.5	1229.2	1235.7	1228.2	1232.9	1267.6	1322.0	1320.1	1317.3
30°	1286.3	1207.6	1180.4	1175.7	1184.1	1172.9	1173.8	1202.9	1240.4	1238.5	1237.6
32.5°	1213.2	1146.6	1122.3	1122.3	1130.7	1118.5	1120.4	1145.7	1171.0	1163.5	1163.5
35°	1143.8	1097.0	1077.3	1073.5	1080.1	1071.6	1075.4	1098.8	1108.2	1097.9	1091.3
37.5°	1082.9	1062.3	1042.6	1029.4	1030.4	1031.3	1042.6	1060.4	1054.8	1039.8	1031.3
40°	1026.6	1026.6	1007.9	983.5	980.7	987.3	1006.0	1025.7	1009.8	992.9	982.6
42.5°	986.3	994.8	976.9	952.6	946.9	958.2	978.8	992.9	974.1	955.4	941.3
45°	948.8	969.4	957.3	930.1	922.6	935.7	961.9	967.6	942.3	924.4	914.1
47.5°	922.6	950.7	942.3	916.0	904.8	923.5	950.7	949.8	917.9	899.1	890.7
50°	903.8	939.4	938.5	916.0	903.8	927.3	951.6	939.4	904.8	885.1	876.6
52.5°	888.8	938.5	945.1	931.9	923.5	944.1	959.1	935.7	895.4	874.8	868.2
55°	882.3	942.3	946.9	934.8	927.3	946.0	959.1	943.2	895.4	876.6	871.0
57.5°	884.1	937.6	938.5	921.6	908.5	931.9	952.6	947.9	905.7	884.1	877.6
60°	872.9	912.3	914.1	887.9	872.9	901.0	937.6	934.8	901.0	878.5	866.3
62.5°	835.4	870.1	871.0	846.6	825.1	865.4	905.7	904.8	873.8	851.3	837.2
65°	772.6	809.1	818.5	795.1	778.2	821.3	863.5	861.6	830.7	810.1	796.0
67.5°	694.7	734.1	751.9	736.0	729.4	768.8	808.2	807.2	781.9	762.2	750.1
70°	600.0	632.9	662.9	662.9	658.2	703.2	745.4	741.6	718.2	703.2	693.8
72.5°	521.3	546.6	556.0	565.4	579.4	626.3	661.9	664.7	647.9	640.4	647.9
75°	443.5	459.4	467.8	460.3	484.7	533.5	580.4	585.0	567.2	555.0	557.9
77.5°	364.7	382.5	391.0	374.1	372.2	434.1	491.3	501.6	486.6	467.8	473.5
80°	263.5	286.9	301.0	289.7	286.0	313.1	391.9	403.2	389.1	374.1	382.5
82.5°	161.3	174.4	178.1	189.4	212.8	224.1	252.2	289.7	279.4	266.3	289.7
85°	63.8	75.9	84.4	95.6	111.6	132.2	155.6	185.6	168.8	163.1	192.2
87.5°	3.8	0.9	0.0	1.9	15.9	30.9	66.6	91.9	76.9	82.5	99.4
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°	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6
2.5°	1521.7	1546.0	1578.9	1606.1	1640.7	1673.6	1707.3	1741.1	1758.9	1766.4
5°	1413.9	1458.9	1511.4	1569.5	1637.0	1708.2	1780.4	1854.5	1901.4	1905.1
7.5°	1349.2	1413.9	1486.0	1559.2	1642.6	1741.1	1855.4	1969.8	2017.6	2030.8
10°	1369.8	1442.0	1499.2	1567.6	1659.5	1782.3	1917.3	2051.4	2106.7	2122.7
12.5°	1452.3	1466.4	1484.2	1547.0	1659.5	1817.9	1981.1	2140.5	2199.5	2214.5
15°	1520.7	1453.2	1421.4	1487.9	1637.0	1848.9	2048.6	2224.8	2296.1	2310.2
17.5°	1526.4	1410.1	1340.7	1400.7	1597.6	1870.4	2113.3	2318.6	2378.6	2391.7
20°	1469.2	1364.2	1274.2	1310.7	1544.2	1879.8	2160.2	2387.0	2446.1	2459.2
22.5°	1404.5	1326.7	1229.2	1227.3	1479.5	1890.1	2216.4	2451.7	2515.5	2523.9
25°	1343.5	1275.1	1192.6	1166.3	1404.5	1909.8	2292.4	2549.2	2598.0	2600.8
27.5°	1272.3	1219.8	1163.5	1138.2	1338.8	1947.3	2404.9	2665.5	2694.6	2689.9
30°	1207.6	1168.2	1142.9	1135.4	1297.6	1975.5	2511.7	2779.9	2781.8	2765.8
32.5°	1139.1	1124.1	1124.1	1148.5	1263.8	1968.9	2598.9	2891.5	2873.6	2850.2
35°	1078.2	1081.0	1100.7	1157.9	1207.6	1903.3	2682.4	3031.2	3004.9	2971.2
37.5°	1020.1	1041.6	1069.8	1125.1	1133.5	1805.8	2779.9	3229.0	3196.2	3154.0
40°	970.4	1003.2	1036.0	1063.2	1054.8	1667.0	2915.8	3461.5	3424.9	3376.2
42.5°	931.0	962.9	999.4	1002.3	1005.1	1522.6	3060.2	3746.5	3740.0	3686.5
45°	905.7	926.3	961.0	956.3	1002.3	1363.2	3193.4	4181.6	4267.8	4227.5
47.5°	888.8	904.8	908.5	928.2	1026.6	1220.7	3364.9	5032.9	5272.9	5226.9
50°	879.4	895.4	853.2	930.1	1030.4	1128.8	3602.1	6101.7	6488.0	6427.0
52.5°	878.5	874.8	811.0	949.8	1009.8	1072.6	3725.9	6881.7	7738.7	7870.9
55°	880.4	833.5	789.4	955.4	968.5	1052.0	3311.5	7256.8	8892.8	9172.2
57.5°	863.5	788.5	801.6	932.9	890.7	1107.3	2448.0	7122.7	9354.1	9873.5
60°	831.6	745.4	824.1	871.9	811.0	1012.6	1685.7	6524.5	8876.0	9410.4
62.5°	785.7	715.4	821.3	793.2	781.9	828.8	1158.8	5687.3	8117.5	8639.7
65°	734.1	691.0	777.2	717.2	723.8	637.5	819.4	4742.2	7211.8	7725.6
67.5°	678.8	676.0	712.6	638.5	611.3	505.3	597.2	3800.9	6048.3	6511.4
70°	616.0	636.6	647.9	567.2	496.0	396.6	443.5	2658.0	4461.9	4865.0
72.5°	553.2	555.0	571.0	493.2	371.3	317.8	332.8	1609.8	3031.2	3324.6
75°	489.4	471.6	486.6	401.3	276.6	260.6	256.9	994.8	2093.6	2325.2
77.5°	421.0	401.3	381.6	301.9	222.2	201.6	196.9	557.9	1284.5	1427.0
80°	342.2	316.0	285.0	221.3	162.2	144.4	143.4	271.9	640.4	713.5
82.5°	266.3	216.6	208.1	137.8	100.3	88.1	93.8	104.1	193.1	215.6
85°	186.6	157.5	110.6	55.3	45.0	36.6	35.6	30.9	51.6	57.2
87.5°	104.1	68.4	35.6	6.6	7.5	8.4	6.6	4.7	4.7	4.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)