

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: P639476

Luminaire Tested: GWS-SA5B-830-U-SLR-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639476
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-830-U-SLR-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13355.2 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

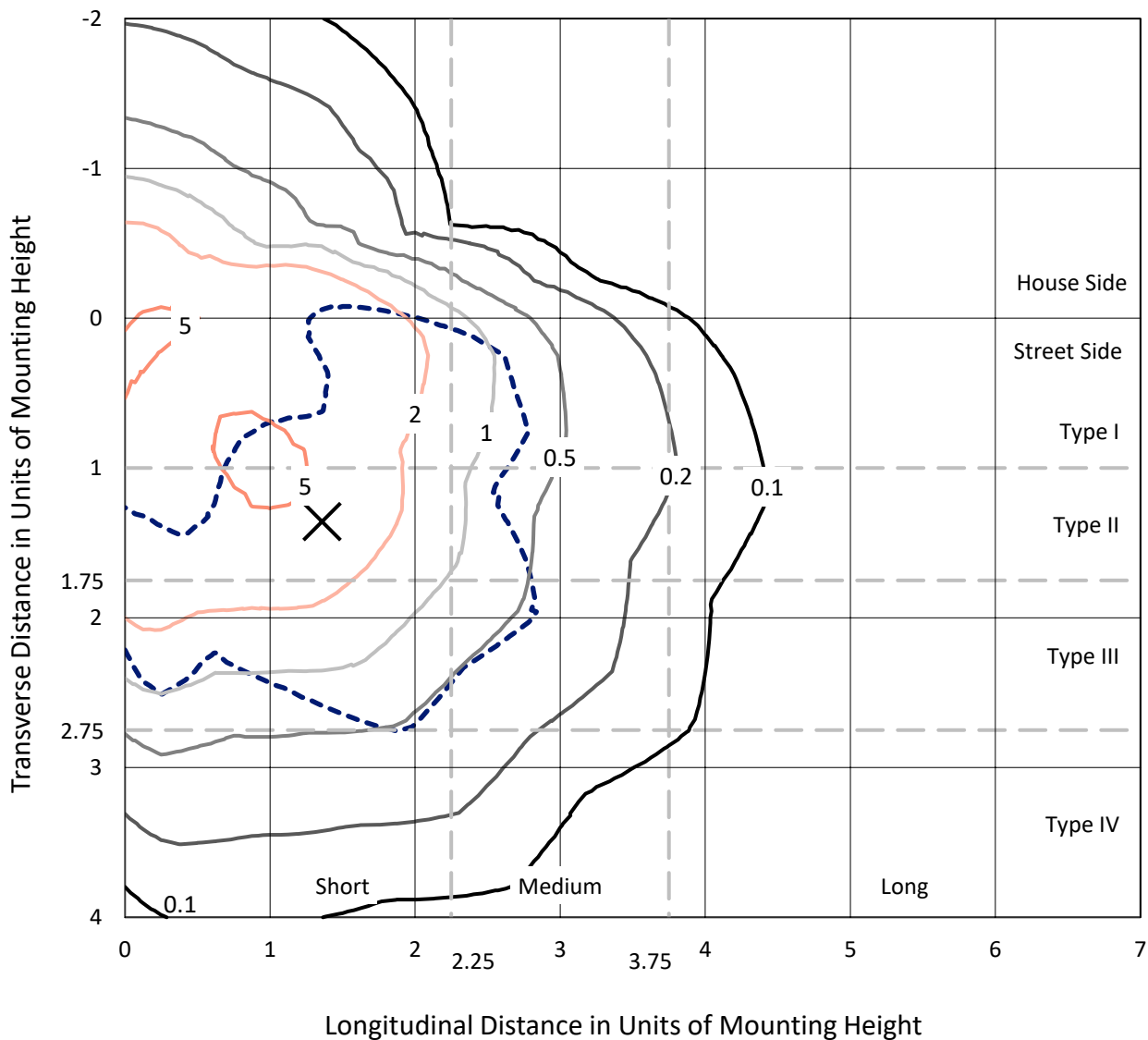
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

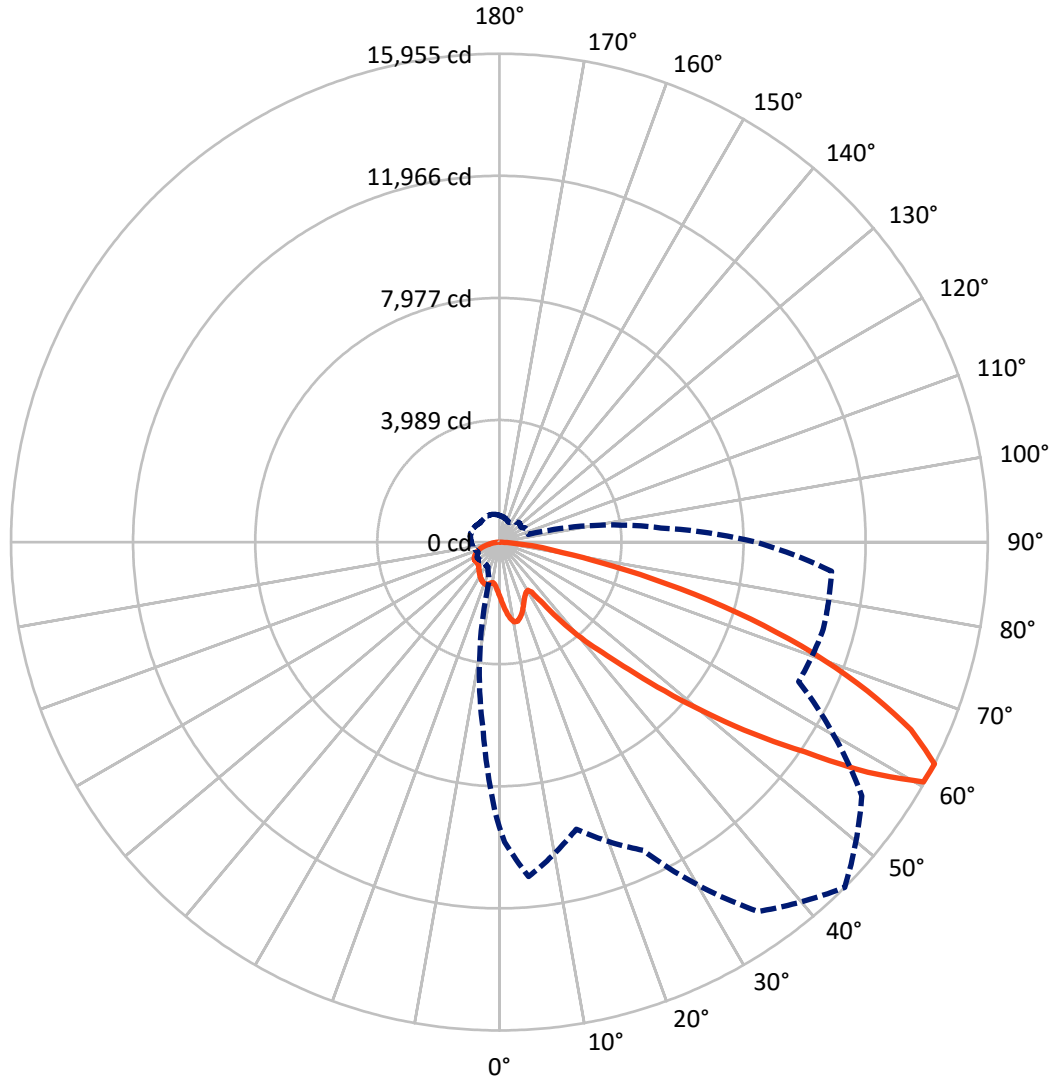
✕ Max cd
 - - - 1/2 Max cd



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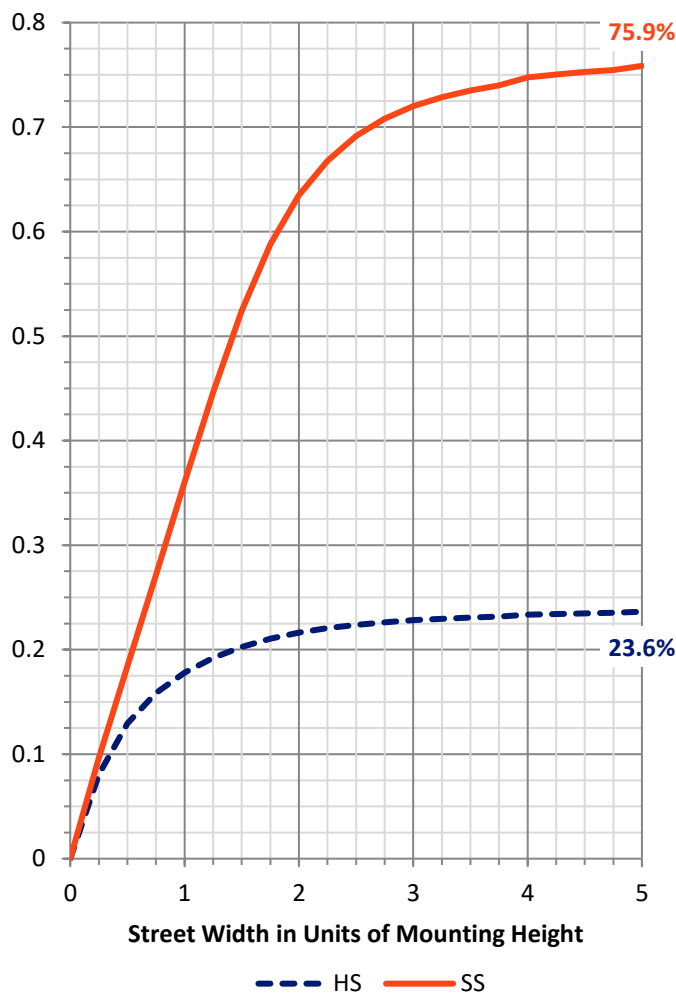
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3186.8	0.0	3186.8
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	10168.4	0.0	10168.4
	% Fixture	76.1	0.0	76.1
Total	Lumens	13355.2	0.0	13355.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.1	1.3
10°-20°	542.7	4.1
20°-30°	842.9	6.3
30°-40°	1144.4	8.6
40°-50°	1813.8	13.6
50°-60°	3199.5	24.0
60°-70°	3560.0	26.7
70°-80°	1805.5	13.5
80°-90°	273.4	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°	13355.2	100.0
0°-180°	13355.2	100.0

Coefficient of Utilization



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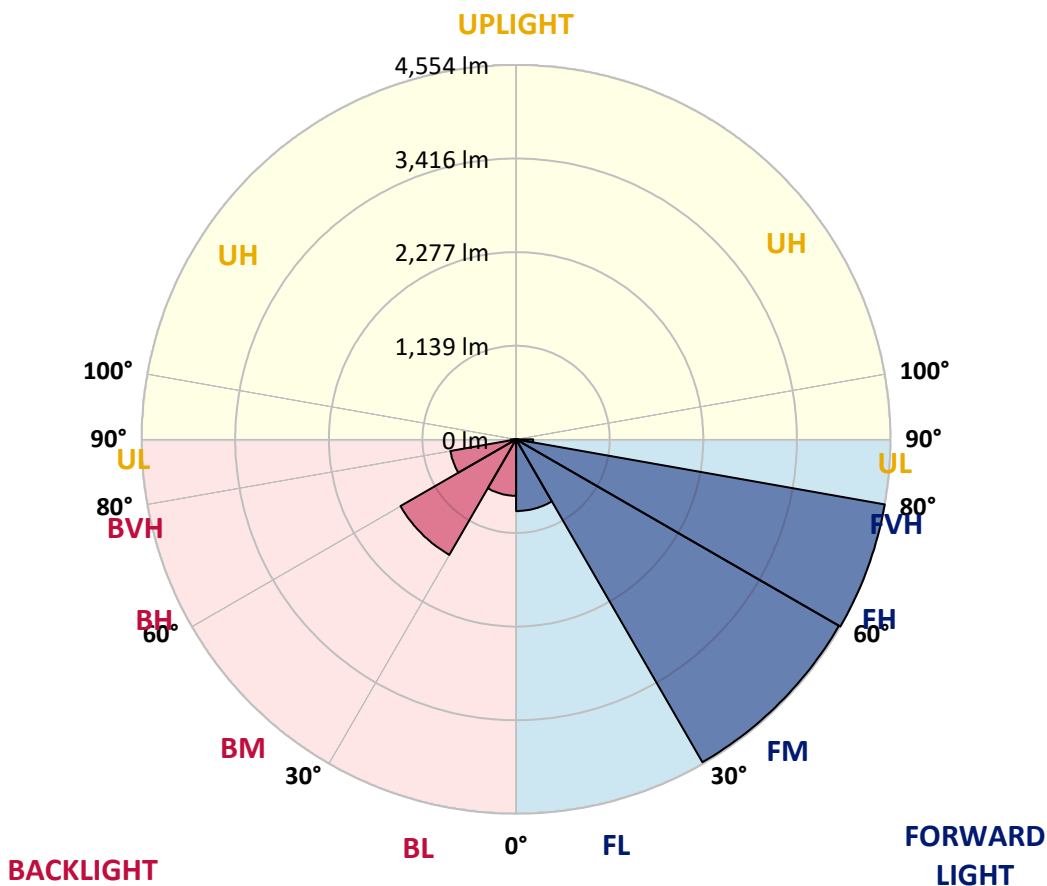
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	872.0	6.5			
FM (30°-60°)	4534.7	34.0			
FH (60°-80°)	4554.2	34.1			G2/5000
FVH (80°-90°)	207.5	1.6			G2/225
BL (0°-30°)	686.7	5.1	B2/1000		
BM (30°-60°)	1623.1	12.2	B2/2500		
BH (60°-80°)	811.2	6.1	B2/1000		G2/1000
BVH (80°-90°)	65.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1772.5	1772.5	1772.5	1772.5	1772.5	1772.5	1772.5	1772.5	1772.5	1772.5	1772.5
2.5°	1905.0	1904.0	1923.2	1952.5	1979.8	1991.9	2012.1	2010.1	1993.9	1972.7	1965.6
5°	2054.6	2058.7	2092.0	2156.7	2228.5	2258.9	2272.0	2266.9	2237.6	2200.2	2134.5
7.5°	2190.1	2197.2	2248.7	2345.8	2434.8	2475.2	2507.6	2501.5	2459.1	2389.3	2292.2
10°	2289.2	2297.3	2359.0	2473.2	2572.3	2607.7	2649.2	2651.2	2613.8	2519.7	2420.6
12.5°	2388.3	2396.4	2454.0	2558.2	2622.9	2623.9	2648.1	2661.3	2663.3	2619.8	2520.7
15°	2491.4	2498.5	2551.1	2609.7	2606.7	2550.1	2550.1	2575.3	2631.0	2662.3	2593.5
17.5°	2579.4	2588.5	2628.9	2609.7	2519.7	2417.6	2405.5	2437.8	2534.9	2655.2	2648.1
20°	2652.2	2659.3	2681.5	2554.1	2390.3	2256.8	2233.6	2271.0	2402.4	2611.7	2689.6
22.5°	2722.0	2726.0	2713.9	2481.3	2250.8	2098.1	2069.8	2109.2	2250.8	2534.9	2725.0
25°	2804.9	2800.8	2743.2	2405.5	2123.4	1972.7	1943.4	1987.9	2135.5	2432.8	2763.4
27.5°	2900.9	2885.8	2768.5	2323.6	2025.3	1879.7	1859.5	1907.0	2044.5	2338.7	2793.7
30°	2982.8	2953.5	2772.5	2250.8	1974.7	1840.3	1828.1	1872.6	2000.0	2275.0	2832.2
32.5°	3073.8	3033.4	2795.8	2231.6	2003.0	1935.3	1951.5	1954.5	2012.1	2256.8	2889.8
35°	3204.3	3151.7	2859.5	2287.2	2294.2	2408.5	2467.2	2388.3	2195.2	2297.3	2999.0
37.5°	3401.4	3334.7	2988.9	2527.8	2895.9	3151.7	3293.2	3113.3	2751.3	2450.0	3163.8
40°	3641.1	3556.1	3154.7	2972.7	3458.1	3867.6	4119.3	3855.4	3323.6	2831.2	3395.4
42.5°	3975.8	3886.8	3476.3	3409.5	3978.8	4588.5	4917.1	4523.8	3828.1	3323.6	3766.5
45°	4559.2	4473.2	4065.7	3847.3	4588.5	5476.3	5937.3	5390.3	4340.8	3818.0	4460.1
47.5°	5637.0	5535.9	4941.4	4332.7	5284.2	6629.0	7274.1	6477.3	4873.6	4384.3	5624.9
50°	6931.3	6834.2	6040.5	4907.0	6052.6	7861.5	8758.4	7754.3	5487.4	5072.8	7017.2
52.5°	8488.4	8470.2	7608.7	5633.0	6852.4	9176.0	10405.5	9168.9	6159.8	6000.0	8594.6
55°	9891.9	10069.8	9600.7	6740.2	7885.8	10827.2	12099.2	10711.9	7071.8	7532.9	10441.9
57.5°	10648.2	11126.5	11847.4	8999.0	9388.3	12800.9	14189.2	12595.6	8639.1	10085.0	12154.8
60°	10148.7	10690.7	11997.0	10699.8	10878.7	14382.3	15914.1	14179.1	10178.0	11856.5	12057.7
62.5°	9317.5	9803.9	10965.7	9706.8	11109.3	14730.1	15954.6	14455.1	10789.7	10957.6	10891.9
65°	8331.7	8822.1	10052.6	8473.3	10376.2	13904.0	14777.6	13643.2	9690.7	9900.0	9924.2
67.5°	7022.3	7475.3	8728.1	7533.9	9458.1	12691.7	12970.8	12486.4	8924.2	9257.9	8909.1
70°	5246.7	5655.2	6761.4	6122.4	7972.7	11112.3	10886.8	10958.6	8063.7	8395.4	7441.9
72.5°	3585.5	3892.8	4841.3	4810.9	6105.2	8895.9	8581.4	9261.9	6735.1	7175.0	5673.4
75°	2507.6	2747.2	3499.5	3800.8	4614.8	6593.6	6111.3	6932.3	5259.9	5887.8	4139.6
77.5°	1538.9	1697.7	2210.3	2816.0	2968.7	4512.7	3795.8	5216.4	3693.7	4294.3	2761.4
80°	769.5	846.3	1073.8	1770.5	1968.7	2659.3	2096.1	3028.3	2499.5	2659.3	1527.8
82.5°	232.6	256.8	314.5	672.4	1020.2	1530.8	1238.6	1759.4	1365.0	1246.7	601.6
85°	61.7	69.8	87.0	199.2	357.9	549.0	418.6	852.4	654.2	460.1	226.5
87.5°	5.1	5.1	4.0	4.0	2.0	0.0	0.0	60.7	122.3	69.8	39.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1772.5	1772.5	1772.5	1772.5	1772.5	1772.5	1772.5	1772.5	1772.5	1772.5	1772.5
2.5°	1930.2	1926.2	1884.7	1854.4	1819.0	1784.6	1749.3	1717.9	1682.5	1647.1	1637.0
5°	2086.0	2057.6	1969.7	1895.9	1823.1	1759.4	1703.8	1646.1	1599.6	1554.1	1536.9
7.5°	2223.5	2173.9	2046.5	1934.3	1833.2	1754.3	1672.4	1588.5	1522.8	1458.0	1441.9
10°	2347.8	2282.1	2121.3	1979.8	1867.6	1777.6	1681.5	1569.3	1474.2	1395.4	1374.1
12.5°	2439.9	2368.1	2186.1	2023.3	1895.9	1794.8	1699.7	1600.6	1500.5	1398.4	1375.1
15°	2512.7	2437.8	2239.6	2056.6	1896.9	1766.4	1674.4	1640.0	1608.7	1508.6	1466.1
17.5°	2571.3	2492.4	2286.2	2076.9	1869.6	1680.5	1600.6	1651.2	1731.1	1668.4	1588.5
20°	2624.9	2545.0	2321.6	2091.0	1808.9	1562.2	1517.7	1624.9	1745.2	1743.2	1671.4
22.5°	2683.5	2605.7	2373.1	2099.1	1724.0	1441.9	1468.2	1586.5	1684.5	1713.9	1669.4
25°	2758.4	2689.6	2444.9	2117.3	1627.9	1359.0	1431.8	1536.9	1618.8	1625.9	1599.6
27.5°	2845.3	2793.7	2552.1	2159.8	1534.9	1316.5	1389.3	1467.1	1542.0	1545.0	1513.7
30°	2940.4	2906.0	2651.2	2195.2	1465.1	1303.3	1334.7	1397.4	1444.9	1453.0	1425.7
32.5°	3061.7	3031.4	2739.1	2171.9	1423.7	1300.3	1284.1	1316.5	1355.9	1355.9	1334.7
35°	3228.5	3186.1	2832.2	2082.9	1373.1	1288.2	1230.5	1239.6	1256.8	1259.9	1247.7
37.5°	3465.1	3395.4	2926.2	1907.0	1290.2	1244.7	1168.9	1157.7	1163.8	1171.9	1168.9
40°	3758.4	3644.1	3063.7	1695.7	1191.1	1160.8	1105.2	1083.9	1078.9	1095.1	1101.1
42.5°	4127.4	3952.5	3211.3	1498.5	1101.1	1064.7	1030.3	1012.1	1004.1	1031.4	1047.5
45°	4716.9	4428.7	3352.9	1303.3	1050.6	982.8	959.6	946.4	950.5	982.8	1003.0
47.5°	5735.1	5155.7	3487.4	1180.0	1046.5	924.2	895.9	898.9	910.0	944.4	968.7
50°	7023.3	6129.5	3577.4	1128.4	1058.7	888.8	851.4	867.5	884.7	918.1	946.4
52.5°	8334.7	7036.4	3470.2	1100.1	1057.6	889.8	809.9	858.4	866.5	899.9	930.2
55°	9236.7	7137.6	2998.0	1056.6	1041.5	930.2	777.6	854.4	859.5	889.8	917.1
57.5°	9580.4	6791.7	2286.2	1068.8	992.9	961.6	763.4	826.1	862.5	888.8	917.1
60°	9164.9	6139.6	1389.3	1100.1	915.1	959.6	772.5	774.5	837.2	881.7	910.0
62.5°	8381.2	5302.4	975.7	1011.1	858.4	906.0	793.7	713.9	792.7	846.3	871.6
65°	7483.4	4317.5	744.2	870.6	831.1	823.1	800.8	660.3	732.1	784.6	806.9
67.5°	6548.1	3355.9	604.7	649.1	751.3	744.2	732.1	612.7	660.3	697.7	723.0
70°	5370.1	2347.8	510.6	487.4	644.1	667.3	640.0	553.1	568.3	606.7	626.9
72.5°	3928.2	1463.1	419.6	402.4	517.7	583.4	569.3	487.4	494.4	530.8	547.0
75°	2825.1	837.2	336.7	331.7	395.4	499.5	471.2	419.6	427.7	455.0	466.1
77.5°	1795.8	466.1	259.9	266.9	283.1	373.1	402.4	359.0	359.0	375.1	384.2
80°	961.6	266.9	190.1	193.1	198.2	285.1	317.5	278.1	278.1	266.9	278.1
82.5°	392.3	153.7	130.4	121.3	132.5	195.1	222.4	176.9	185.0	166.8	170.9
85°	129.4	76.8	64.7	63.7	62.7	85.9	107.2	88.0	105.2	66.7	69.8
87.5°	17.2	14.2	8.1	6.1	7.1	3.0	6.1	7.1	7.1	5.1	5.1
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1772.5	1772.5	1772.5	1772.5	1772.5	1772.5	1772.5	1772.5	1772.5	1772.5	1772.5
2.5°	1629.9	1621.8	1592.5	1599.6	1594.5	1586.5	1594.5	1579.4	1591.5	1595.6	1620.8
5°	1523.8	1504.6	1476.2	1462.1	1459.1	1451.0	1452.0	1444.9	1446.9	1464.1	1492.4
7.5°	1428.7	1410.5	1388.3	1378.2	1369.1	1360.0	1359.0	1357.9	1366.0	1381.2	1408.5
10°	1360.0	1349.9	1340.8	1344.8	1340.8	1336.7	1329.6	1329.6	1342.8	1370.1	1403.4
12.5°	1360.0	1357.9	1360.0	1372.1	1371.1	1372.1	1363.0	1368.1	1404.5	1451.0	1498.5
15°	1432.8	1416.6	1416.6	1422.7	1420.6	1420.6	1420.6	1441.9	1524.8	1596.6	1647.1
17.5°	1521.7	1474.2	1454.0	1451.0	1450.0	1450.0	1454.0	1499.5	1628.9	1704.8	1734.1
20°	1583.4	1493.4	1460.1	1446.9	1447.9	1450.0	1462.1	1524.8	1667.4	1705.8	1698.7
22.5°	1594.5	1478.3	1437.8	1418.6	1421.6	1423.7	1441.9	1508.6	1614.8	1620.8	1606.7
25°	1543.0	1435.8	1392.3	1377.2	1381.2	1380.2	1396.4	1444.9	1520.7	1518.7	1510.6
27.5°	1466.1	1368.1	1335.7	1325.6	1332.7	1324.6	1329.6	1367.0	1425.7	1423.7	1420.6
30°	1387.3	1302.3	1273.0	1268.0	1277.1	1264.9	1265.9	1297.3	1337.7	1335.7	1334.7
32.5°	1308.4	1236.6	1210.3	1210.3	1219.4	1206.3	1208.3	1235.6	1262.9	1254.8	1254.8
35°	1233.6	1183.0	1161.8	1157.7	1164.8	1155.7	1159.8	1185.0	1195.2	1184.0	1177.0
37.5°	1167.9	1145.6	1124.4	1110.2	1111.2	1112.2	1124.4	1143.6	1137.5	1121.3	1112.2
40°	1107.2	1107.2	1087.0	1060.7	1057.6	1064.7	1084.9	1106.2	1089.0	1070.8	1059.7
42.5°	1063.7	1072.8	1053.6	1027.3	1021.2	1033.4	1055.6	1070.8	1050.6	1030.3	1015.2
45°	1023.3	1045.5	1032.4	1003.0	995.0	1009.1	1037.4	1043.5	1016.2	997.0	985.9
47.5°	995.0	1025.3	1016.2	987.9	975.7	996.0	1025.3	1024.3	989.9	969.7	960.6
50°	974.7	1013.2	1012.1	987.9	974.7	1000.0	1026.3	1013.2	975.7	954.5	945.4
52.5°	958.5	1012.1	1019.2	1005.1	996.0	1018.2	1034.4	1009.1	965.6	943.4	936.3
55°	951.5	1016.2	1021.2	1008.1	1000.0	1020.2	1034.4	1017.2	965.6	945.4	939.3
57.5°	953.5	1011.1	1012.1	993.9	979.8	1005.1	1027.3	1022.3	976.7	953.5	946.4
60°	941.4	983.8	985.9	957.5	941.4	971.7	1011.1	1008.1	971.7	947.4	934.3
62.5°	900.9	938.3	939.3	913.0	889.8	933.3	976.7	975.7	942.4	918.1	902.9
65°	833.2	872.6	882.7	857.4	839.2	885.7	931.2	929.2	895.9	873.6	858.4
67.5°	749.2	791.7	810.9	793.7	786.7	829.1	871.6	870.6	843.3	822.0	808.9
70°	647.1	682.5	714.9	714.9	709.8	758.3	803.8	799.8	774.5	758.3	748.2
72.5°	562.2	589.5	599.6	609.7	624.9	675.4	713.9	716.9	698.7	690.6	698.7
75°	478.3	495.5	504.6	496.5	522.8	575.3	625.9	630.9	611.7	598.6	601.6
77.5°	393.3	412.5	421.6	403.4	401.4	468.2	529.8	541.0	524.8	504.6	510.6
80°	284.1	309.4	324.6	312.4	308.4	337.7	422.7	434.8	419.6	403.4	412.5
82.5°	173.9	188.1	192.1	204.2	229.5	241.7	272.0	312.4	301.3	287.2	312.4
85°	68.8	81.9	91.0	103.1	120.3	142.6	167.8	200.2	182.0	175.9	207.3
87.5°	4.0	1.0	0.0	2.0	17.2	33.4	71.8	99.1	82.9	89.0	107.2
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1772.5	1772.5	1772.5	1772.5	1772.5	1772.5	1772.5	1772.5	1772.5	1772.5
2.5°	1641.1	1667.4	1702.7	1732.1	1769.5	1804.9	1841.3	1877.7	1896.9	1905.0
5°	1524.8	1573.3	1629.9	1692.6	1765.4	1842.3	1920.1	2000.0	2050.6	2054.6
7.5°	1455.0	1524.8	1602.6	1681.5	1771.5	1877.7	2001.0	2124.4	2175.9	2190.1
10°	1477.3	1555.1	1616.8	1690.6	1789.7	1922.2	2067.8	2212.3	2272.0	2289.2
12.5°	1566.2	1581.4	1600.6	1668.4	1789.7	1960.6	2136.5	2308.4	2372.1	2388.3
15°	1640.0	1567.2	1532.9	1604.7	1765.4	1993.9	2209.3	2399.4	2476.3	2491.4
17.5°	1646.1	1520.7	1445.9	1510.6	1723.0	2017.2	2279.1	2500.5	2565.2	2579.4
20°	1584.4	1471.2	1374.1	1413.6	1665.3	2027.3	2329.6	2574.3	2638.0	2652.2
22.5°	1514.7	1430.7	1325.6	1323.6	1595.6	2038.4	2390.3	2644.1	2712.9	2722.0
25°	1448.9	1375.1	1286.2	1257.8	1514.7	2059.7	2472.2	2749.3	2801.8	2804.9
27.5°	1372.1	1315.5	1254.8	1227.5	1443.9	2100.1	2593.5	2874.6	2906.0	2900.9
30°	1302.3	1259.9	1232.6	1224.5	1399.4	2130.4	2708.8	2998.0	3000.0	2982.8
32.5°	1228.5	1212.3	1212.3	1238.6	1363.0	2123.4	2802.8	3118.3	3099.1	3073.8
35°	1162.8	1165.8	1187.1	1248.7	1302.3	2052.6	2892.8	3269.0	3240.7	3204.3
37.5°	1100.1	1123.4	1153.7	1213.4	1222.5	1947.4	2998.0	3482.3	3446.9	3401.4
40°	1046.5	1081.9	1117.3	1146.6	1137.5	1797.8	3144.6	3733.1	3693.7	3641.1
42.5°	1004.1	1038.4	1077.9	1080.9	1083.9	1642.1	3300.3	4040.5	4033.4	3975.8
45°	976.7	999.0	1036.4	1031.4	1080.9	1470.2	3443.9	4509.6	4602.7	4559.2
47.5°	958.5	975.7	979.8	1001.0	1107.2	1316.5	3628.9	5427.7	5686.6	5637.0
50°	948.4	965.6	920.1	1003.0	1111.2	1217.4	3884.8	6580.4	6997.0	6931.3
52.5°	947.4	943.4	874.6	1024.3	1089.0	1156.7	4018.2	7421.7	8345.9	8488.4
55°	949.4	898.9	851.4	1030.3	1044.5	1134.5	3571.3	7826.1	9590.6	9891.9
57.5°	931.2	850.4	864.5	1006.1	960.6	1194.1	2640.1	7681.5	10088.0	10648.2
60°	896.9	803.8	888.8	940.3	874.6	1092.0	1818.0	7036.4	9572.4	10148.7
62.5°	847.3	771.5	885.7	855.4	843.3	893.8	1249.8	6133.5	8754.3	9317.5
65°	791.7	745.2	838.2	773.5	780.6	687.6	883.7	5114.3	7777.6	8331.7
67.5°	732.1	729.0	768.5	688.6	659.3	545.0	644.1	4099.1	6522.8	7022.3
70°	664.3	686.6	698.7	611.7	534.9	427.7	478.3	2866.5	4812.0	5246.7
72.5°	596.6	598.6	615.8	531.9	400.4	342.8	359.0	1736.1	3269.0	3585.5
75°	527.8	508.6	524.8	432.8	298.3	281.1	277.0	1072.8	2257.8	2507.6
77.5°	454.0	432.8	411.5	325.6	239.6	217.4	212.3	601.6	1385.2	1538.9
80°	369.1	340.8	307.4	238.6	174.9	155.7	154.7	293.2	690.6	769.5
82.5°	287.2	233.6	224.5	148.6	108.2	95.0	101.1	112.2	208.3	232.6
85°	201.2	169.9	119.3	59.7	48.5	39.4	38.4	33.4	55.6	61.7
87.5°	112.2	73.8	38.4	7.1	8.1	9.1	7.1	5.1	5.1	5.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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