

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: P632324

Luminaire Tested: GWS-SA2C-740-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632324
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-43)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2C-740-U-SLR-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7241.3 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 63.2
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

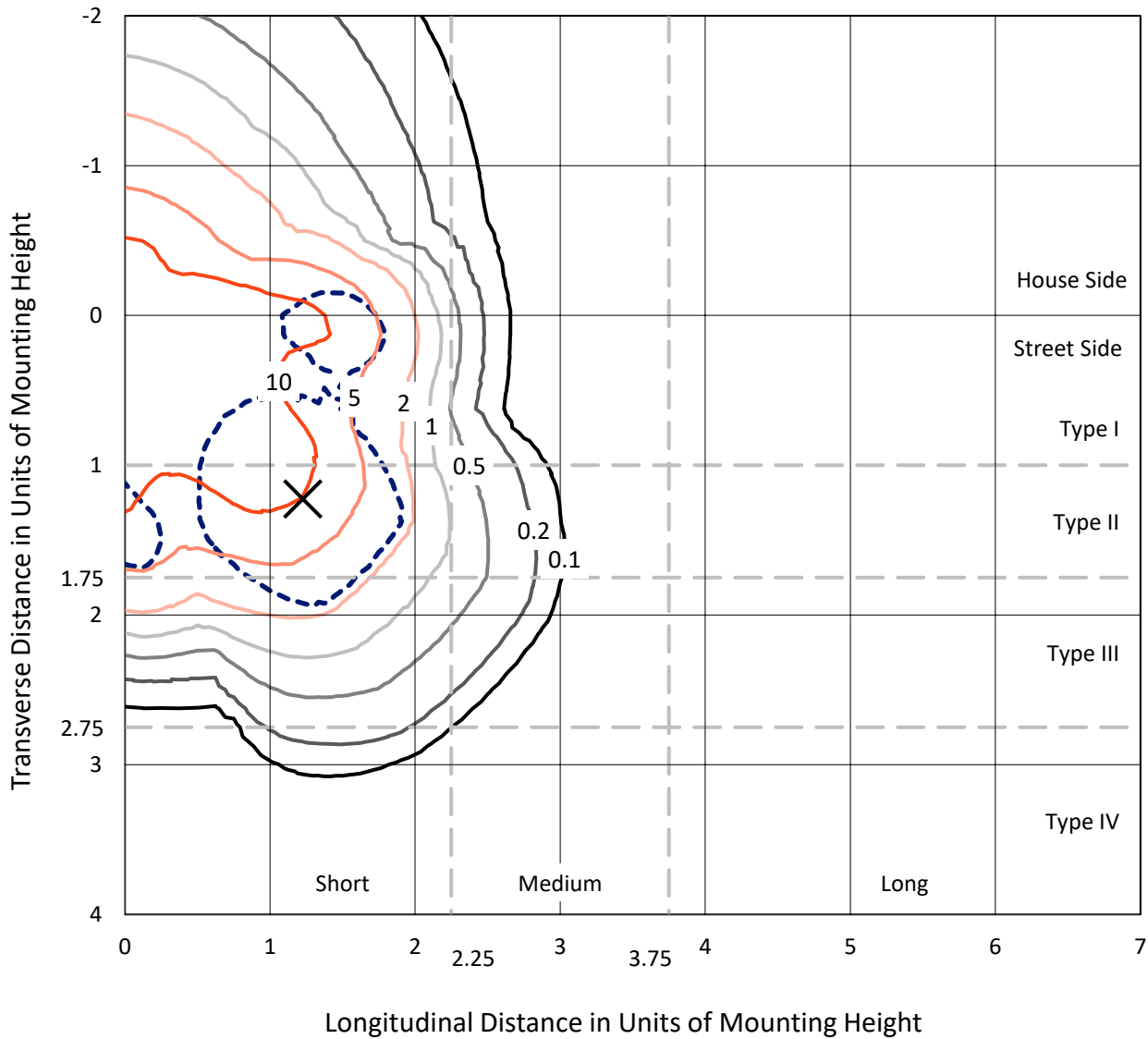


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Iso-Footcandle Lines of Horizontal Illumination

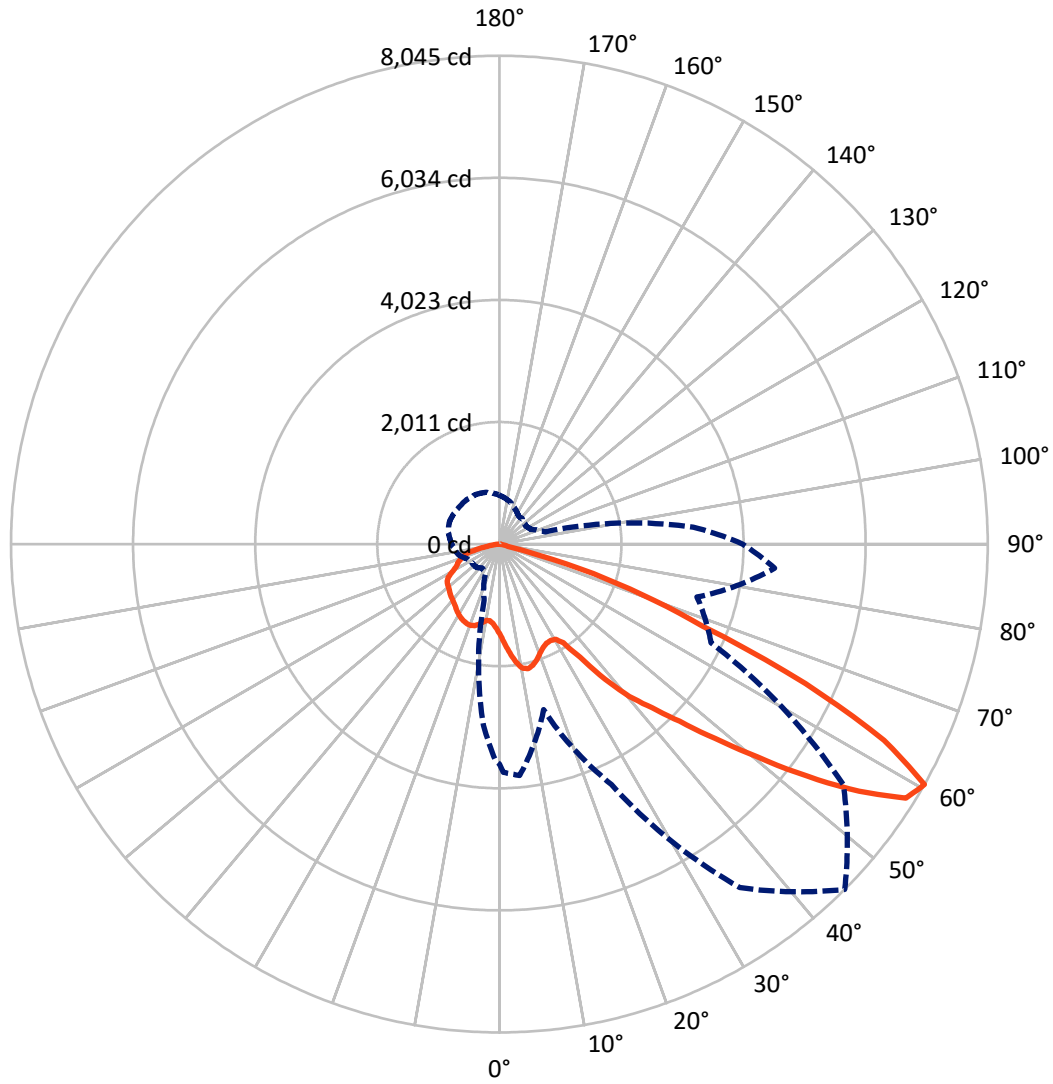
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2538.3	0.0	2538.3
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	4703.0	0.0	4703.0
	% Fixture	64.9	0.0	64.9
Total	Lumens	7241.3	0.0	7241.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.1	2.0
10°-20°	458.6	6.3
20°-30°	745.0	10.3
30°-40°	1050.7	14.5
40°-50°	1452.0	20.1
50°-60°	1869.2	25.8
60°-70°	1184.3	16.4
70°-80°	303.9	4.2
80°-90°	32.5	0.4
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°	7241.3	100.0
0°-180°	7241.3	100.0

Coefficient of Utilization



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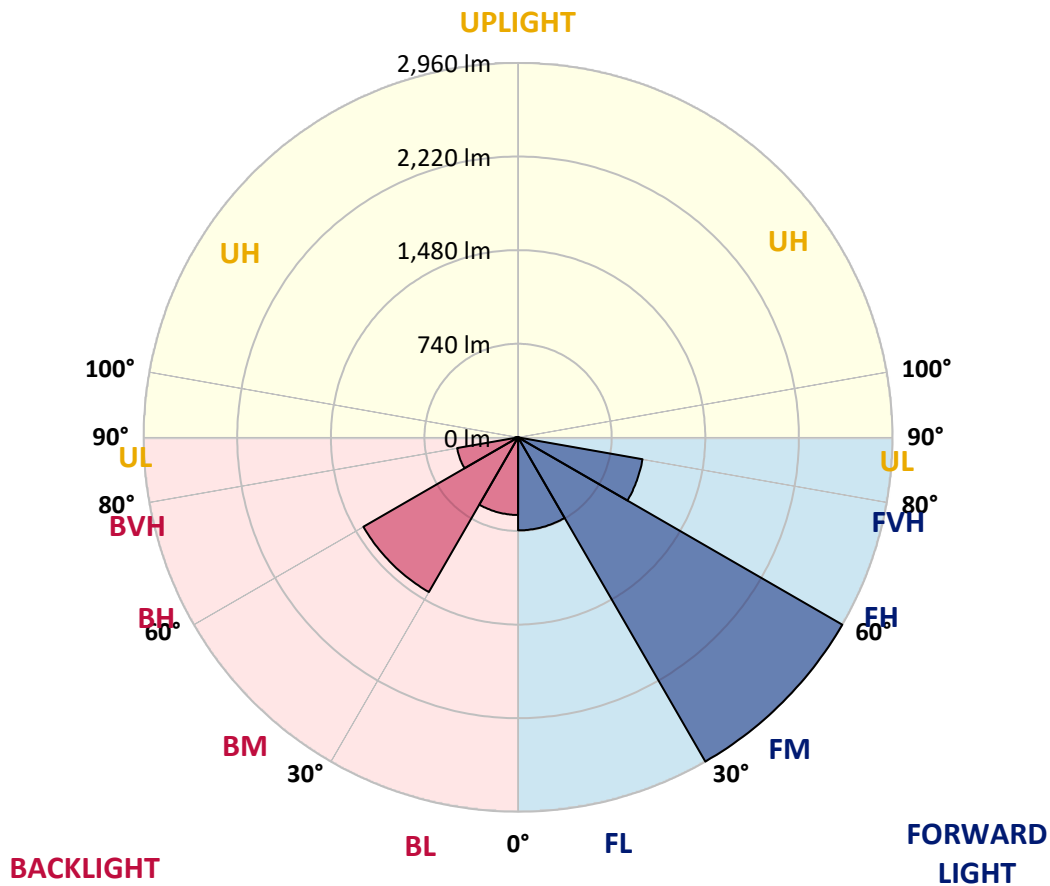
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	735.3	10.2			
FM (30°-60°)	2959.8	40.9			
FH (60°-80°)	999.0	13.8			G1/1800
FVH (80°-90°)	8.8	0.1			G0/10
BL (0°-30°)	613.5	8.5	B2/1000		
BM (30°-60°)	1412.0	19.5	B2/2500		
BH (60°-80°)	489.2	6.8	B1/500		G1/500
BVH (80°-90°)	23.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6
2.5°	1555.9	1566.5	1573.2	1585.8	1608.3	1620.9	1634.9	1619.6	1623.6	1621.6	1597.1
5°	1648.1	1660.7	1678.0	1715.2	1757.0	1780.2	1802.1	1798.8	1778.2	1743.7	1719.1
7.5°	1734.4	1749.0	1778.9	1839.2	1900.9	1936.8	1963.3	1946.1	1928.8	1874.4	1812.7
10°	1802.1	1810.7	1851.2	1932.1	2003.8	2044.3	2076.8	2072.8	2048.9	1987.9	1904.9
12.5°	1865.8	1871.7	1915.5	1996.5	2060.8	2078.8	2105.3	2113.9	2106.0	2060.2	1978.6
15°	1934.1	1945.4	1985.9	2047.6	2076.8	2058.2	2067.5	2091.4	2113.9	2113.9	2038.9
17.5°	1997.8	2007.8	2048.9	2075.4	2047.6	1998.5	2001.1	2031.6	2085.4	2141.8	2094.0
20°	2054.2	2063.5	2104.0	2078.8	1990.5	1918.9	1916.9	1954.0	2040.9	2159.7	2153.1
22.5°	2115.9	2129.2	2163.0	2081.4	1937.4	1846.5	1845.9	1884.4	2001.8	2177.6	2220.7
25°	2203.5	2224.1	2241.3	2104.6	1908.9	1799.4	1808.0	1844.5	1989.2	2206.8	2320.9
27.5°	2333.5	2350.1	2348.8	2153.1	1907.6	1780.2	1798.1	1840.6	2011.7	2258.6	2426.4
30°	2474.2	2482.8	2468.9	2220.7	1938.1	1792.1	1818.7	1869.1	2068.8	2344.2	2581.7
32.5°	2630.1	2640.7	2614.2	2322.3	2009.1	1880.4	1938.8	1963.3	2149.1	2467.6	2746.2
35°	2809.3	2829.8	2774.8	2456.3	2218.1	2202.2	2287.1	2255.2	2319.6	2613.5	2922.1
37.5°	2997.7	2998.4	2919.4	2654.7	2628.1	2655.3	2825.2	2725.7	2681.2	2776.1	3101.2
40°	3157.6	3153.6	3032.2	2922.1	2985.1	3093.3	3298.3	3145.7	3028.9	2994.4	3249.8
42.5°	3317.5	3302.9	3180.2	3091.9	3231.3	3453.5	3685.1	3498.0	3251.8	3192.8	3396.5
45°	3521.9	3517.2	3369.3	3159.6	3453.5	3856.9	4164.1	3860.9	3383.9	3308.2	3640.6
47.5°	3851.6	3829.1	3553.7	3154.3	3661.9	4394.4	4782.5	4318.1	3476.1	3310.9	4034.8
50°	4174.1	4146.2	3774.0	3153.6	3876.9	4951.7	5512.4	4873.4	3570.3	3326.8	4435.5
52.5°	4499.9	4499.9	4135.6	3228.6	4102.4	5574.1	6355.7	5565.5	3730.9	3535.1	4928.5
55°	4693.6	4745.4	4542.3	3355.3	4366.5	6306.6	7189.7	6312.6	3979.0	3911.4	5383.7
57.5°	4447.5	4544.3	4515.1	3267.1	4522.4	6844.7	7897.0	6879.2	4101.8	3955.8	5315.3
60°	3624.1	3758.7	3825.8	2821.2	4368.5	6907.1	8045.0	6916.4	3848.3	3368.6	4553.0
62.5°	2409.2	2520.0	2622.2	2015.7	3782.0	6213.7	7115.4	6215.7	3214.0	2514.0	3154.3
65°	1181.7	1264.0	1374.1	1191.7	2954.6	5191.9	5547.6	5022.7	2324.9	1407.3	1609.0
67.5°	309.2	332.4	347.7	462.5	2116.6	3730.2	3618.1	3673.8	1493.5	459.8	420.7
70°	160.6	161.9	161.2	191.1	1430.5	2370.7	2493.4	2307.0	1042.4	192.4	165.9
72.5°	114.8	115.4	113.5	128.7	690.7	1358.2	1407.3	1392.0	546.1	114.1	113.5
75°	75.0	75.6	74.3	75.6	104.2	154.6	142.7	150.0	90.9	72.3	72.3
77.5°	44.5	45.1	44.5	45.8	44.5	44.5	41.1	41.1	39.1	39.1	39.8
80°	29.9	29.9	29.2	30.5	27.9	27.9	26.5	25.9	23.9	23.2	23.2
82.5°	17.9	18.6	17.9	17.9	16.6	16.6	15.3	14.6	12.6	12.6	11.9
85°	9.3	9.3	8.6	8.6	7.3	6.6	5.3	5.3	4.0	3.3	3.3
87.5°	1.3	1.3	0.7	0.7	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	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6
2.5°	1590.4	1577.1	1557.2	1538.0	1520.1	1501.5	1480.3	1458.4	1439.8	1420.6	1410.6
5°	1686.6	1659.4	1607.7	1561.9	1520.8	1486.9	1450.4	1419.2	1390.0	1366.2	1354.2
7.5°	1773.5	1731.1	1652.8	1580.5	1524.7	1478.3	1427.9	1381.4	1342.3	1313.1	1301.8
10°	1853.8	1803.4	1700.6	1609.0	1544.0	1492.2	1430.5	1367.5	1315.7	1277.2	1268.0
12.5°	1918.9	1861.1	1738.4	1632.2	1555.3	1499.5	1445.1	1390.7	1339.6	1289.9	1281.9
15°	1976.6	1908.2	1766.9	1646.8	1551.3	1480.3	1434.5	1427.9	1427.9	1371.5	1355.5
17.5°	2026.3	1951.4	1790.1	1653.5	1526.1	1423.2	1395.3	1453.1	1518.1	1477.6	1441.8
20°	2083.4	1992.5	1809.4	1653.5	1479.6	1350.9	1348.2	1446.4	1542.6	1543.3	1505.5
22.5°	2141.1	2040.3	1831.9	1647.5	1415.9	1267.3	1316.4	1419.9	1505.5	1542.0	1516.1
25°	2234.7	2106.6	1867.8	1642.8	1341.6	1210.2	1287.9	1384.7	1457.1	1495.5	1478.9
27.5°	2353.4	2194.2	1922.2	1650.1	1268.0	1176.4	1257.3	1339.0	1404.6	1438.5	1426.5
30°	2486.1	2295.1	1980.6	1662.7	1214.9	1159.1	1220.8	1286.5	1344.9	1378.8	1373.5
32.5°	2655.3	2404.5	2031.0	1645.5	1185.0	1150.5	1182.4	1229.5	1285.9	1307.1	1311.7
35°	2857.7	2525.3	2069.5	1577.8	1157.8	1141.2	1140.6	1169.8	1209.6	1243.4	1246.7
37.5°	3044.2	2666.6	2111.9	1461.7	1108.7	1118.0	1091.5	1108.7	1147.9	1181.7	1195.0
40°	3228.6	2809.9	2171.0	1313.7	1044.4	1066.3	1035.1	1047.0	1078.2	1122.6	1143.9
42.5°	3407.8	2939.3	2233.4	1162.5	980.0	993.9	970.7	982.6	1015.2	1070.9	1094.8
45°	3602.8	3114.5	2281.8	1019.8	924.3	918.3	899.7	917.0	966.1	1027.1	1055.6
47.5°	3971.7	3390.5	2313.6	924.9	894.4	851.3	830.0	867.2	922.9	984.6	1019.1
50°	4422.3	3789.9	2304.3	864.5	868.5	782.3	775.0	824.1	883.8	948.1	986.0
52.5°	4779.2	4182.1	2198.9	806.8	818.1	738.5	717.2	788.9	846.0	911.7	950.8
55°	5051.9	4314.1	1875.1	738.5	735.8	706.6	662.2	752.4	808.1	869.2	911.7
57.5°	4829.6	4020.2	1390.0	644.3	628.3	643.6	600.5	690.7	761.7	822.1	859.9
60°	4008.2	3205.4	774.3	570.6	525.5	562.7	556.0	625.7	711.3	775.0	807.5
62.5°	2721.0	2134.5	459.1	451.2	426.0	479.0	514.2	560.0	644.3	696.0	726.5
65°	1356.2	1037.1	305.2	337.7	341.0	394.1	460.5	510.9	581.2	634.3	664.8
67.5°	393.5	322.5	232.2	258.1	293.9	336.4	389.5	449.2	517.5	580.6	616.4
70°	169.9	171.8	184.5	215.0	250.1	293.9	347.0	405.4	463.1	511.6	538.8
72.5°	120.1	124.7	138.7	169.9	203.0	244.8	297.9	354.3	396.1	445.2	473.7
75°	77.0	80.3	91.6	115.4	140.0	180.5	230.9	282.7	325.8	360.9	388.1
77.5°	42.5	43.1	52.4	66.4	82.9	108.8	146.0	186.4	218.3	238.2	262.7
80°	24.5	24.5	29.2	37.8	47.8	63.7	84.3	104.2	123.4	136.0	148.0
82.5°	13.3	13.3	15.3	20.6	25.9	35.2	47.1	57.1	69.0	75.6	83.6
85°	4.0	4.0	5.3	7.3	9.3	13.3	18.6	23.9	29.2	33.8	38.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
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°	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6
2.5°	1408.6	1399.3	1394.0	1387.4	1389.4	1383.4	1380.1	1382.1	1370.1	1382.1	1394.0
5°	1349.6	1336.3	1325.7	1317.1	1313.1	1305.1	1300.5	1300.5	1293.2	1305.1	1319.7
7.5°	1297.8	1287.2	1281.9	1276.6	1270.6	1263.3	1255.3	1252.7	1248.1	1260.7	1273.3
10°	1263.3	1264.6	1268.0	1275.3	1273.9	1269.3	1257.3	1250.7	1250.7	1265.3	1284.5
12.5°	1279.2	1293.2	1301.1	1314.4	1317.1	1313.1	1301.1	1295.8	1309.1	1331.0	1362.8
15°	1340.9	1350.2	1356.9	1367.5	1366.8	1363.5	1354.2	1358.2	1402.0	1444.4	1473.0
17.5°	1408.0	1397.3	1396.0	1402.6	1404.6	1400.7	1395.3	1413.3	1485.6	1525.4	1540.0
20°	1456.4	1419.9	1411.9	1414.6	1419.9	1417.9	1417.9	1447.1	1522.1	1540.7	1522.1
22.5°	1471.0	1419.2	1407.3	1408.0	1415.3	1415.9	1419.2	1449.8	1493.5	1494.2	1465.7
25°	1447.8	1398.0	1389.4	1390.7	1399.3	1398.7	1400.0	1417.2	1436.5	1428.5	1407.3
27.5°	1404.0	1360.8	1358.2	1365.5	1376.8	1370.8	1366.8	1371.5	1380.8	1370.8	1352.2
30°	1354.2	1317.7	1319.0	1333.0	1344.9	1335.0	1325.0	1327.7	1328.3	1317.7	1296.5
32.5°	1301.8	1274.6	1279.2	1293.8	1307.8	1297.1	1286.5	1285.2	1272.6	1260.0	1239.4
35°	1249.4	1238.8	1244.7	1256.7	1268.6	1260.0	1253.4	1249.4	1222.2	1203.6	1186.3
37.5°	1201.6	1209.6	1220.2	1227.5	1231.5	1230.8	1226.8	1217.5	1181.7	1159.8	1137.2
40°	1159.1	1183.7	1195.0	1198.3	1204.3	1202.9	1202.3	1189.0	1141.9	1118.7	1092.8
42.5°	1120.7	1155.2	1174.4	1177.7	1181.0	1181.7	1179.7	1160.5	1106.7	1079.5	1055.0
45°	1083.5	1128.6	1153.2	1149.9	1154.5	1154.5	1156.5	1131.3	1072.2	1044.4	1018.5
47.5°	1051.0	1104.1	1126.6	1122.6	1125.3	1127.3	1129.3	1100.1	1034.4	1007.9	981.3
50°	1021.1	1077.5	1096.8	1098.1	1098.1	1102.7	1102.1	1073.5	1002.6	974.0	947.5
52.5°	989.3	1050.3	1070.9	1079.5	1082.2	1084.2	1074.9	1041.7	970.0	935.5	911.0
55°	952.1	1022.5	1041.0	1052.3	1057.6	1056.3	1043.7	1009.9	936.9	902.4	874.5
57.5°	895.7	962.7	989.3	994.6	1003.2	997.9	983.3	954.8	883.8	849.3	820.8
60°	834.0	882.5	903.7	908.3	901.7	903.7	901.7	874.5	812.8	785.6	756.4
62.5°	753.1	796.2	818.8	824.7	813.5	820.8	818.1	784.3	722.6	694.0	668.1
65°	692.0	739.1	765.7	769.0	765.7	769.0	759.7	718.6	660.2	631.0	604.5
67.5°	644.3	692.7	720.6	729.9	726.5	725.9	711.3	663.5	603.1	571.3	537.4
70°	562.0	604.5	640.3	662.8	662.8	650.2	622.4	577.9	529.5	502.3	475.7
72.5°	497.6	551.4	586.5	609.8	614.4	607.1	568.0	520.9	465.1	437.9	410.0
75°	410.0	462.5	500.3	530.8	536.8	528.8	483.7	437.2	385.5	359.0	331.1
77.5°	274.0	305.2	335.7	363.6	357.6	362.9	332.4	297.2	265.4	245.5	232.9
80°	154.6	175.2	184.5	199.7	199.7	199.7	179.8	163.2	145.3	134.0	121.4
82.5°	87.6	100.9	104.8	117.4	120.8	121.4	108.2	97.5	86.3	80.3	71.7
85°	40.5	47.8	48.4	55.7	58.4	63.7	57.7	50.4	43.8	41.1	35.8
87.5°	1.3	4.0	5.3	10.0	13.3	15.3	16.6	16.6	13.9	12.6	10.6
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6	1487.6
2.5°	1408.6	1424.5	1443.1	1456.4	1480.3	1500.2	1520.8	1543.3	1559.9	1555.9
5°	1337.6	1364.2	1398.0	1429.2	1473.6	1518.8	1568.5	1619.6	1649.5	1648.1
7.5°	1297.8	1335.6	1376.8	1418.6	1471.0	1536.0	1612.3	1691.9	1732.4	1734.4
10°	1319.0	1359.5	1387.4	1422.6	1477.6	1559.2	1650.8	1746.3	1792.8	1802.1
12.5°	1386.1	1382.7	1380.8	1406.0	1472.3	1575.8	1688.0	1802.1	1854.5	1865.8
15°	1449.8	1381.4	1340.3	1357.5	1448.4	1586.4	1724.4	1863.1	1922.2	1934.1
17.5°	1461.7	1358.2	1281.9	1293.8	1410.6	1589.8	1759.6	1922.8	1986.5	1997.8
20°	1428.5	1328.3	1239.4	1222.8	1362.8	1581.1	1781.5	1972.6	2042.3	2054.2
22.5°	1386.7	1301.8	1207.6	1164.4	1304.4	1572.5	1806.1	2025.0	2105.3	2115.9
25°	1342.9	1268.0	1177.7	1112.0	1238.1	1567.2	1847.2	2094.0	2190.9	2203.5
27.5°	1296.5	1226.8	1151.8	1086.8	1177.1	1573.8	1905.6	2205.5	2315.6	2333.5
30°	1246.7	1185.7	1135.3	1078.2	1135.3	1579.8	1969.9	2319.6	2449.0	2474.2
32.5°	1195.0	1147.9	1118.0	1082.2	1109.4	1565.9	2026.3	2447.7	2608.2	2630.1
35°	1143.2	1109.4	1096.1	1089.5	1074.9	1514.8	2072.1	2577.0	2790.0	2809.3
37.5°	1094.8	1069.6	1065.6	1072.9	1021.8	1431.2	2125.2	2741.6	2968.5	2997.7
40°	1049.7	1026.4	1025.8	1024.4	963.4	1317.1	2196.9	2908.8	3144.3	3157.6
42.5°	1007.9	978.7	984.0	968.1	915.6	1193.6	2264.5	3051.5	3308.2	3317.5
45°	970.7	932.2	938.2	918.3	893.1	1064.3	2324.3	3220.0	3515.9	3521.9
47.5°	934.9	893.7	877.2	875.8	889.1	944.8	2382.6	3544.4	3841.0	3851.6
50°	901.7	857.2	810.1	839.3	864.5	855.3	2455.6	3892.1	4176.8	4174.1
52.5°	869.9	811.5	744.5	800.8	800.8	788.9	2435.1	4103.1	4454.1	4499.9
55°	833.4	737.8	676.1	736.5	707.3	729.2	2070.8	4172.1	4628.6	4693.6
57.5°	761.0	646.9	593.2	625.7	581.9	676.1	1487.6	3829.7	4332.0	4447.5
60°	691.4	579.9	544.7	538.8	481.7	551.4	964.1	2998.4	3565.7	3624.1
62.5°	609.8	522.2	492.3	446.5	387.5	401.4	583.9	1973.3	2395.9	2409.2
65°	548.1	473.1	416.0	361.6	317.2	291.3	345.0	951.5	1197.6	1181.7
67.5°	470.4	405.4	351.0	311.8	275.4	242.8	229.6	282.7	319.8	309.2
70°	418.7	356.3	303.9	266.7	232.9	200.4	177.2	166.5	163.2	160.6
72.5°	360.9	306.5	252.1	216.3	184.5	154.6	133.4	120.8	117.4	114.8
75°	288.0	236.9	187.1	153.3	125.4	104.2	90.2	79.6	77.6	75.0
77.5°	190.4	151.9	111.5	90.9	74.3	63.0	53.7	47.1	45.8	44.5
80°	104.8	87.6	68.3	55.1	44.5	38.5	35.2	31.2	30.5	29.9
82.5°	62.4	52.4	39.1	31.2	25.9	23.2	21.2	19.2	18.6	17.9
85°	31.2	24.5	17.3	14.6	13.3	11.9	11.9	10.0	9.3	9.3
87.5°	8.0	6.6	4.0	3.3	3.3	3.3	2.7	2.0	2.0	1.3
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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