

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: P632931

Luminaire Tested: GWS-SA2D-760-U-SLR-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632931
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-SA2D-760-U-SLR-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11153.8 lumens
Efficiency: N/A
Efficacy: 135.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

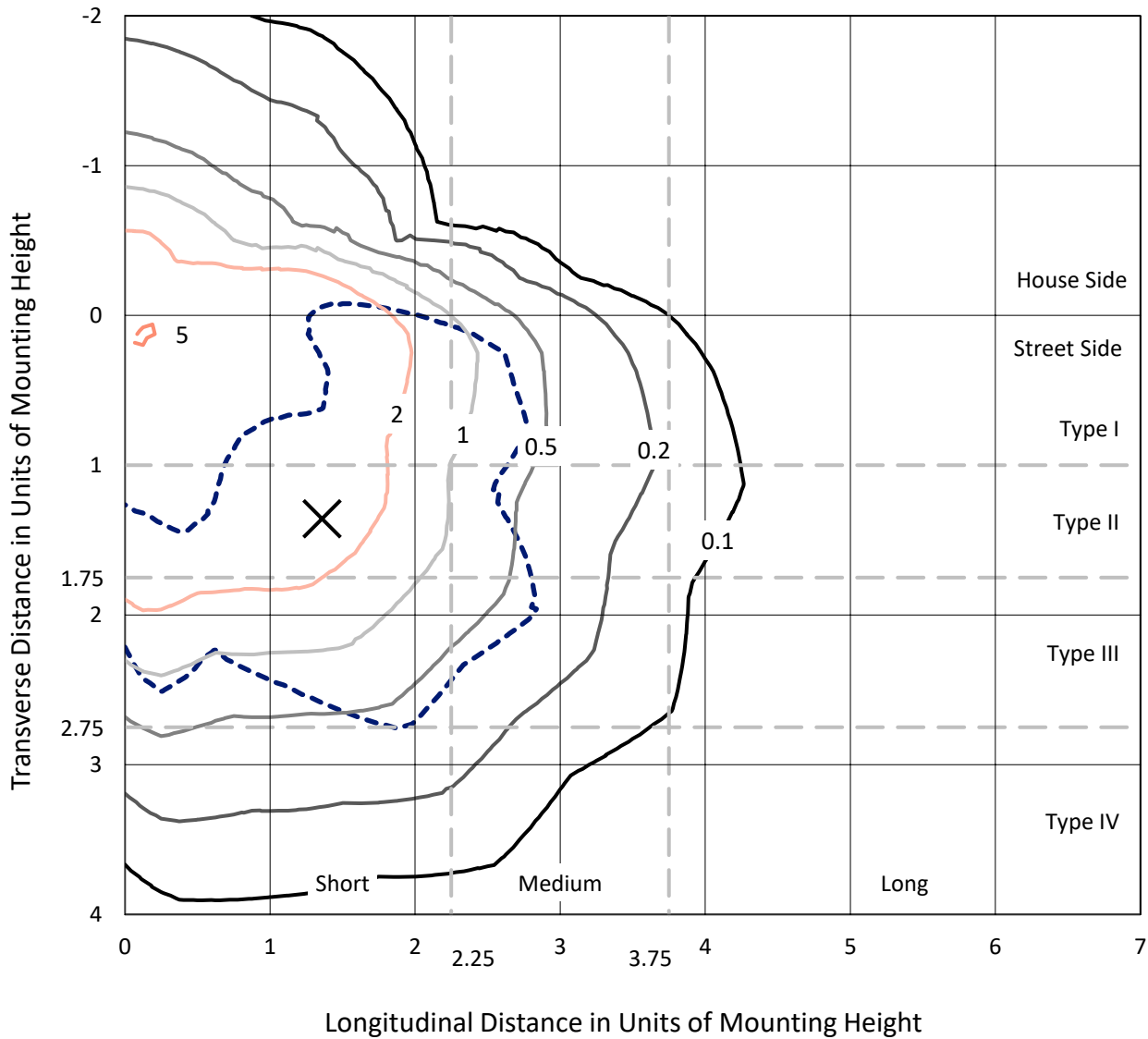
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

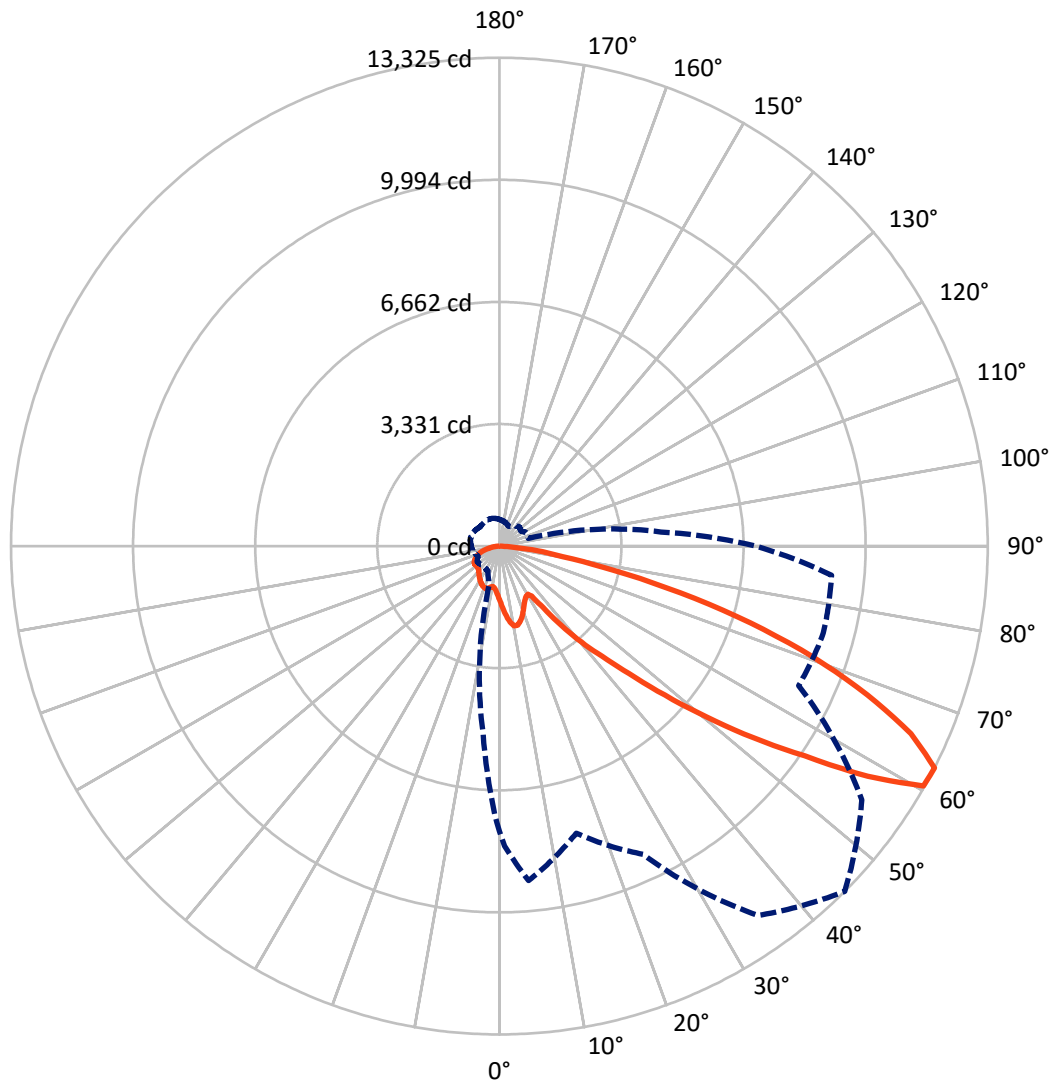
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.3 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	2661.5	0.0	2661.5
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	8492.3	0.0	8492.3
	% Fixture	76.1	0.0	76.1
Total	Lumens	11153.8	0.0	11153.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.6	1.3
10°-20°	453.2	4.1
20°-30°	703.9	6.3
30°-40°	955.8	8.6
40°-50°	1514.8	13.6
50°-60°	2672.1	24.0
60°-70°	2973.2	26.7
70°-80°	1507.9	13.5
80°-90°	228.3	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°	11153.8	100.0
0°-180°	11153.8	100.0

Coefficient of Utilization



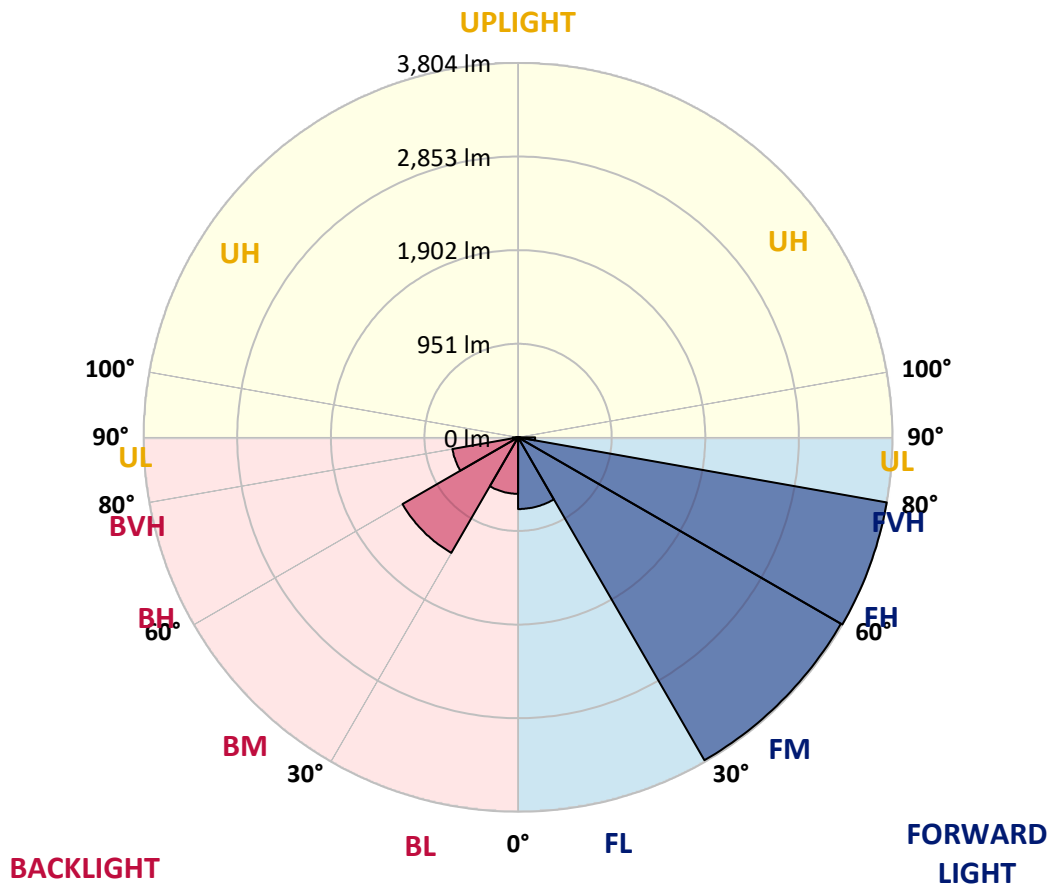
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	728.2	6.5			
FM (30°-60°)	3787.2	34.0			
FH (60°-80°)	3803.5	34.1			G2/5000
FVH (80°-90°)	173.3	1.6			G2/225
BL (0°-30°)	573.5	5.1	B2/1000		
BM (30°-60°)	1355.5	12.2	B2/2500		
BH (60°-80°)	677.5	6.1	B2/1000		G2/1000
BVH (80°-90°)	55.0	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°	1480.3	1480.3	1480.3	1480.3	1480.3	1480.3	1480.3	1480.3	1480.3	1480.3	1480.3
2.5°	1591.0	1590.1	1606.2	1630.7	1653.5	1663.6	1680.5	1678.8	1665.3	1647.5	1641.6
5°	1715.9	1719.3	1747.2	1801.2	1861.2	1886.5	1897.5	1893.3	1868.8	1837.5	1782.7
7.5°	1829.1	1835.0	1878.1	1959.1	2033.5	2067.2	2094.3	2089.2	2053.7	1995.5	1914.4
10°	1911.9	1918.6	1970.1	2065.5	2148.3	2177.9	2212.5	2214.2	2182.9	2104.4	2021.6
12.5°	1994.6	2001.4	2049.5	2136.5	2190.5	2191.4	2211.6	2222.6	2224.3	2188.0	2105.2
15°	2080.7	2086.7	2130.6	2179.5	2177.0	2129.7	2129.7	2150.8	2197.3	2223.5	2166.0
17.5°	2154.2	2161.8	2195.6	2179.5	2104.4	2019.1	2009.0	2036.0	2117.1	2217.5	2211.6
20°	2215.0	2220.9	2239.5	2133.1	1996.3	1884.8	1865.4	1896.7	2006.4	2181.2	2246.3
22.5°	2273.3	2276.7	2266.5	2072.3	1879.8	1752.3	1728.6	1761.5	1879.8	2117.1	2275.8
25°	2342.5	2339.2	2291.0	2009.0	1773.4	1647.5	1623.1	1660.2	1783.5	2031.8	2307.9
27.5°	2422.8	2410.1	2312.1	1940.6	1691.5	1569.8	1553.0	1592.7	1707.5	1953.2	2333.2
30°	2491.2	2466.7	2315.5	1879.8	1649.2	1536.9	1526.8	1563.9	1670.3	1900.0	2365.3
32.5°	2567.2	2533.4	2334.9	1863.7	1672.9	1616.3	1629.8	1632.3	1680.5	1884.8	2413.5
35°	2676.1	2632.2	2388.1	1910.2	1916.1	2011.5	2060.5	1994.6	1833.3	1918.6	2504.7
37.5°	2840.8	2785.0	2496.2	2111.1	2418.5	2632.2	2750.4	2600.1	2297.8	2046.1	2642.3
40°	3040.9	2970.0	2634.7	2482.7	2888.1	3230.1	3440.3	3219.9	2775.7	2364.5	2835.7
42.5°	3320.4	3246.1	2903.3	2847.5	3322.9	3832.2	4106.6	3778.1	3197.1	2775.7	3145.6
45°	3807.7	3735.9	3395.6	3213.2	3832.2	4573.6	4958.7	4501.8	3625.3	3188.7	3724.9
47.5°	4707.9	4623.4	4126.9	3618.5	4413.1	5536.3	6075.0	5409.6	4070.3	3661.6	4697.7
50°	5788.8	5707.7	5044.8	4098.2	5054.9	6565.7	7314.7	6476.2	4582.9	4236.7	5860.5
52.5°	7089.2	7074.0	6354.6	4704.5	5722.9	7663.5	8690.3	7657.6	5144.4	5011.0	7177.9
55°	8261.3	8410.0	8018.1	5629.2	6585.9	9042.5	10104.8	8946.2	5906.1	6291.2	8720.7
57.5°	8893.0	9292.4	9894.5	7515.7	7840.8	10690.9	11850.3	10519.4	7215.1	8422.6	10151.2
60°	8475.8	8928.5	10019.5	8936.1	9085.5	12011.6	13290.9	11841.9	8500.3	9902.1	10070.2
62.5°	7781.7	8187.9	9158.2	8106.8	9278.1	12302.1	13324.7	12072.4	9011.2	9151.4	9096.5
65°	6958.3	7367.9	8395.6	7076.6	8665.8	11612.2	12341.8	11394.3	8093.3	8268.1	8288.4
67.5°	5864.8	6243.1	7289.4	6292.1	7899.1	10599.7	10832.7	10428.2	7453.2	7731.9	7440.5
70°	4381.9	4723.1	5646.9	5113.2	6658.6	9280.6	9092.3	9152.2	6734.6	7011.5	6215.2
72.5°	2994.5	3251.2	4043.3	4017.9	5098.8	7429.6	7166.9	7735.2	5624.9	5992.3	4738.3
75°	2094.3	2294.4	2922.7	3174.3	3854.1	5506.7	5103.9	5789.6	4392.9	4917.3	3457.2
77.5°	1285.3	1417.8	1846.0	2351.8	2479.3	3768.8	3170.1	4356.6	3084.8	3586.4	2306.2
80°	642.6	706.8	896.8	1478.6	1644.2	2220.9	1750.6	2529.2	2087.5	2220.9	1276.0
82.5°	194.2	214.5	262.6	561.6	852.1	1278.5	1034.5	1469.4	1140.0	1041.2	502.5
85°	51.5	58.3	72.6	166.4	298.9	458.5	349.6	711.9	546.4	384.2	189.2
87.5°	4.2	4.2	3.4	3.4	1.7	0.0	0.0	50.7	102.2	58.3	32.9
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°	1480.3	1480.3	1480.3	1480.3	1480.3	1480.3	1480.3	1480.3	1480.3	1480.3	1480.3
2.5°	1612.1	1608.7	1574.1	1548.7	1519.2	1490.5	1460.9	1434.7	1405.2	1375.6	1367.2
5°	1742.1	1718.5	1645.0	1583.4	1522.6	1469.4	1422.9	1374.8	1335.9	1297.9	1283.6
7.5°	1857.0	1815.6	1709.2	1615.5	1531.0	1465.1	1396.7	1326.6	1271.8	1217.7	1204.2
10°	1960.8	1905.9	1771.7	1653.5	1559.7	1484.6	1404.3	1310.6	1231.2	1165.4	1147.6
12.5°	2037.7	1977.7	1825.7	1689.8	1583.4	1498.9	1419.5	1336.8	1253.2	1167.9	1148.5
15°	2098.5	2036.0	1870.5	1717.6	1584.2	1475.3	1398.4	1369.7	1343.5	1259.9	1224.5
17.5°	2147.5	2081.6	1909.3	1734.5	1561.4	1403.5	1336.8	1379.0	1445.7	1393.4	1326.6
20°	2192.2	2125.5	1938.9	1746.3	1510.7	1304.7	1267.5	1357.0	1457.5	1455.8	1395.9
22.5°	2241.2	2176.2	1981.9	1753.1	1439.8	1204.2	1226.2	1325.0	1406.9	1431.4	1394.2
25°	2303.7	2246.3	2041.9	1768.3	1359.6	1135.0	1195.8	1283.6	1352.0	1357.9	1335.9
27.5°	2376.3	2333.2	2131.4	1803.8	1281.9	1099.5	1160.3	1225.3	1287.8	1290.3	1264.2
30°	2455.7	2427.0	2214.2	1833.3	1223.6	1088.5	1114.7	1167.0	1206.7	1213.5	1190.7
32.5°	2557.0	2531.7	2287.6	1813.9	1189.0	1086.0	1072.5	1099.5	1132.4	1132.4	1114.7
35°	2696.4	2660.9	2365.3	1739.6	1146.8	1075.8	1027.7	1035.3	1049.7	1052.2	1042.1
37.5°	2894.0	2835.7	2443.9	1592.7	1077.5	1039.5	976.2	966.9	972.0	978.7	976.2
40°	3138.9	3043.4	2558.7	1416.2	994.8	969.4	923.0	905.3	901.0	914.5	919.6
42.5°	3447.1	3301.0	2682.0	1251.5	919.6	889.2	860.5	845.3	838.5	861.3	874.9
45°	3939.4	3698.7	2800.2	1088.5	877.4	820.8	801.4	790.4	793.8	820.8	837.7
47.5°	4789.8	4305.9	2912.5	985.5	874.0	771.8	748.2	750.7	760.0	788.7	809.0
50°	5865.6	5119.1	2987.7	942.4	884.1	742.3	711.0	724.5	738.9	766.8	790.4
52.5°	6960.9	5876.6	2898.2	918.8	883.3	743.1	676.4	716.9	723.7	751.6	776.9
55°	7714.1	5961.0	2503.8	882.5	869.8	776.9	649.4	713.6	717.8	743.1	765.9
57.5°	8001.3	5672.2	1909.3	892.6	829.3	803.1	637.6	689.9	720.3	742.3	765.9
60°	7654.2	5127.6	1160.3	918.8	764.2	801.4	645.2	646.9	699.2	736.4	760.0
62.5°	6999.7	4428.3	814.9	844.5	716.9	756.6	662.9	596.2	662.1	706.8	727.9
65°	6249.8	3605.8	621.5	727.1	694.1	687.4	668.8	551.4	611.4	655.3	673.9
67.5°	5468.7	2802.8	505.0	542.1	627.4	621.5	611.4	511.7	551.4	582.7	603.8
70°	4484.9	1960.8	426.5	407.0	537.9	557.3	534.5	461.9	474.6	506.7	523.6
72.5°	3280.7	1221.9	350.5	336.1	432.4	487.3	475.4	407.0	412.9	443.3	456.9
75°	2359.4	699.2	281.2	277.0	330.2	417.2	393.5	350.5	357.2	380.0	389.3
77.5°	1499.8	389.3	217.0	222.9	236.4	311.6	336.1	299.8	299.8	313.3	320.9
80°	803.1	222.9	158.8	161.3	165.5	238.1	265.2	232.2	232.2	222.9	232.2
82.5°	327.7	128.4	108.9	101.3	110.6	163.0	185.8	147.8	154.5	139.3	142.7
85°	108.1	64.2	54.0	53.2	52.4	71.8	89.5	73.5	87.8	55.7	58.3
87.5°	14.4	11.8	6.8	5.1	5.9	2.5	5.1	5.9	5.9	4.2	4.2
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1480.3	1480.3	1480.3	1480.3	1480.3	1480.3	1480.3	1480.3	1480.3	1480.3	1480.3
2.5°	1361.3	1354.5	1330.0	1335.9	1331.7	1325.0	1331.7	1319.0	1329.2	1332.6	1353.7
5°	1272.6	1256.6	1232.9	1221.1	1218.6	1211.8	1212.6	1206.7	1208.4	1222.8	1246.4
7.5°	1193.2	1178.0	1159.4	1151.0	1143.4	1135.8	1135.0	1134.1	1140.9	1153.5	1176.3
10°	1135.8	1127.4	1119.8	1123.1	1119.8	1116.4	1110.5	1110.5	1121.4	1144.2	1172.1
12.5°	1135.8	1134.1	1135.8	1145.9	1145.1	1145.9	1138.3	1142.6	1173.0	1211.8	1251.5
15°	1196.6	1183.1	1183.1	1188.2	1186.5	1186.5	1186.5	1204.2	1273.4	1333.4	1375.6
17.5°	1270.9	1231.2	1214.3	1211.8	1211.0	1211.0	1214.3	1252.3	1360.4	1423.8	1448.2
20°	1322.4	1247.3	1219.4	1208.4	1209.3	1211.0	1221.1	1273.4	1392.5	1424.6	1418.7
22.5°	1331.7	1234.6	1200.8	1184.8	1187.3	1189.0	1204.2	1259.9	1348.6	1353.7	1341.8
25°	1288.6	1199.1	1162.8	1150.2	1153.5	1152.7	1166.2	1206.7	1270.1	1268.4	1261.6
27.5°	1224.5	1142.6	1115.5	1107.1	1113.0	1106.2	1110.5	1141.7	1190.7	1189.0	1186.5
30°	1158.6	1087.7	1063.2	1059.0	1066.6	1056.4	1057.3	1083.4	1117.2	1115.5	1114.7
32.5°	1092.7	1032.8	1010.8	1010.8	1018.4	1007.4	1009.1	1031.9	1054.7	1048.0	1048.0
35°	1030.2	988.0	970.3	966.9	972.8	965.2	968.6	989.7	998.2	988.9	983.0
37.5°	975.4	956.8	939.0	927.2	928.1	928.9	939.0	955.1	950.0	936.5	928.9
40°	924.7	924.7	907.8	885.8	883.3	889.2	906.1	923.8	909.5	894.3	885.0
42.5°	888.4	896.0	879.9	858.0	852.9	863.0	881.6	894.3	877.4	860.5	847.8
45°	854.6	873.2	862.2	837.7	830.9	842.8	866.4	871.5	848.7	832.6	823.3
47.5°	830.9	856.3	848.7	825.0	814.9	831.8	856.3	855.4	826.7	809.8	802.2
50°	814.1	846.1	845.3	825.0	814.1	835.2	857.1	846.1	814.9	797.2	789.6
52.5°	800.5	845.3	851.2	839.4	831.8	850.4	863.9	842.8	806.5	787.9	782.0
55°	794.6	848.7	852.9	841.9	835.2	852.1	863.9	849.5	806.5	789.6	784.5
57.5°	796.3	844.5	845.3	830.1	818.3	839.4	858.0	853.7	815.7	796.3	790.4
60°	786.2	821.7	823.3	799.7	786.2	811.5	844.5	841.9	811.5	791.3	780.3
62.5°	752.4	783.7	784.5	762.5	743.1	779.4	815.7	814.9	787.0	766.8	754.1
65°	695.8	728.8	737.2	716.1	700.9	739.7	777.7	776.1	748.2	729.6	716.9
67.5°	625.7	661.2	677.3	662.9	657.0	692.5	727.9	727.1	704.3	686.5	675.6
70°	540.5	570.0	597.0	597.0	592.8	633.3	671.3	668.0	646.9	633.3	624.9
72.5°	469.5	492.3	500.8	509.2	521.9	564.1	596.2	598.7	583.5	576.8	583.5
75°	399.4	413.8	421.4	414.6	436.6	480.5	522.7	526.9	510.9	499.9	502.5
77.5°	328.5	344.5	352.1	336.9	335.3	391.0	442.5	451.8	438.3	421.4	426.5
80°	237.3	258.4	271.1	260.9	257.6	282.0	353.0	363.1	350.5	336.9	344.5
82.5°	145.2	157.1	160.4	170.6	191.7	201.8	227.2	260.9	251.6	239.8	260.9
85°	57.4	68.4	76.0	86.1	100.5	119.1	140.2	167.2	152.0	146.9	173.1
87.5°	3.4	0.8	0.0	1.7	14.4	27.9	60.0	82.8	69.2	74.3	89.5
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°	1480.3	1480.3	1480.3	1480.3	1480.3	1480.3	1480.3	1480.3	1480.3	1480.3
2.5°	1370.6	1392.5	1422.1	1446.6	1477.8	1507.4	1537.8	1568.2	1584.2	1591.0
5°	1273.4	1314.0	1361.3	1413.6	1474.4	1538.6	1603.6	1670.3	1712.6	1715.9
7.5°	1215.2	1273.4	1338.5	1404.3	1479.5	1568.2	1671.2	1774.2	1817.3	1829.1
10°	1233.8	1298.8	1350.3	1411.9	1494.7	1605.3	1726.9	1847.7	1897.5	1911.9
12.5°	1308.1	1320.7	1336.8	1393.4	1494.7	1637.4	1784.3	1927.9	1981.1	1994.6
15°	1369.7	1308.9	1280.2	1340.2	1474.4	1665.3	1845.1	2003.9	2068.1	2080.7
17.5°	1374.8	1270.1	1207.6	1261.6	1439.0	1684.7	1903.4	2088.3	2142.4	2154.2
20°	1323.3	1228.7	1147.6	1180.6	1390.8	1693.1	1945.6	2150.0	2203.2	2215.0
22.5°	1265.0	1194.9	1107.1	1105.4	1332.6	1702.4	1996.3	2208.3	2265.7	2273.3
25°	1210.1	1148.5	1074.2	1050.5	1265.0	1720.2	2064.7	2296.1	2340.0	2342.5
27.5°	1145.9	1098.6	1048.0	1025.2	1205.9	1753.9	2166.0	2400.8	2427.0	2422.8
30°	1087.7	1052.2	1029.4	1022.6	1168.7	1779.3	2262.3	2503.8	2505.5	2491.2
32.5°	1026.0	1012.5	1012.5	1034.5	1138.3	1773.4	2340.8	2604.3	2588.3	2567.2
35°	971.1	973.7	991.4	1042.9	1087.7	1714.3	2416.0	2730.1	2706.5	2676.1
37.5°	918.8	938.2	963.5	1013.4	1021.0	1626.4	2503.8	2908.3	2878.8	2840.8
40°	874.0	903.6	933.1	957.6	950.0	1501.4	2626.3	3117.7	3084.8	3040.9
42.5°	838.5	867.3	900.2	902.7	905.3	1371.4	2756.3	3374.5	3368.5	3320.4
45°	815.7	834.3	865.6	861.3	902.7	1227.8	2876.2	3766.3	3844.0	3807.7
47.5°	800.5	814.9	818.3	836.0	924.7	1099.5	3030.8	4533.1	4749.2	4707.9
50°	792.1	806.5	768.5	837.7	928.1	1016.7	3244.4	5495.7	5843.7	5788.8
52.5°	791.3	787.9	730.5	855.4	909.5	966.1	3355.9	6198.3	6970.2	7089.2
55°	792.9	750.7	711.0	860.5	872.3	947.5	2982.6	6536.1	8009.7	8261.3
57.5°	777.7	710.2	722.0	840.2	802.2	997.3	2204.9	6415.4	8425.2	8893.0
60°	749.0	671.3	742.3	785.3	730.5	912.0	1518.3	5876.6	7994.5	8475.8
62.5°	707.7	644.3	739.7	714.4	704.3	746.5	1043.8	5122.5	7311.3	7781.7
65°	661.2	622.4	700.1	646.0	651.9	574.2	738.1	4271.3	6495.6	6958.3
67.5°	611.4	608.9	641.8	575.1	550.6	455.2	537.9	3423.4	5447.6	5864.8
70°	554.8	573.4	583.5	510.9	446.7	357.2	399.4	2394.0	4018.8	4381.9
72.5°	498.2	499.9	514.3	444.2	334.4	286.3	299.8	1449.9	2730.1	2994.5
75°	440.8	424.8	438.3	361.4	249.1	234.8	231.4	896.0	1885.7	2094.3
77.5°	379.2	361.4	343.7	271.9	200.1	181.6	177.3	502.5	1156.9	1285.3
80°	308.2	284.6	256.7	199.3	146.1	130.0	129.2	244.9	576.8	642.6
82.5°	239.8	195.1	187.5	124.1	90.4	79.4	84.4	93.7	174.0	194.2
85°	168.0	141.9	99.6	49.8	40.5	32.9	32.1	27.9	46.4	51.5
87.5°	93.7	61.6	32.1	5.9	6.8	7.6	5.9	4.2	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)