

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: P631939

Luminaire Tested: GWS-SA2B-760-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631939
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-SA2B-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5447.5 lumens
Efficiency: N/A
Efficacy: 117.4 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): 46.4
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

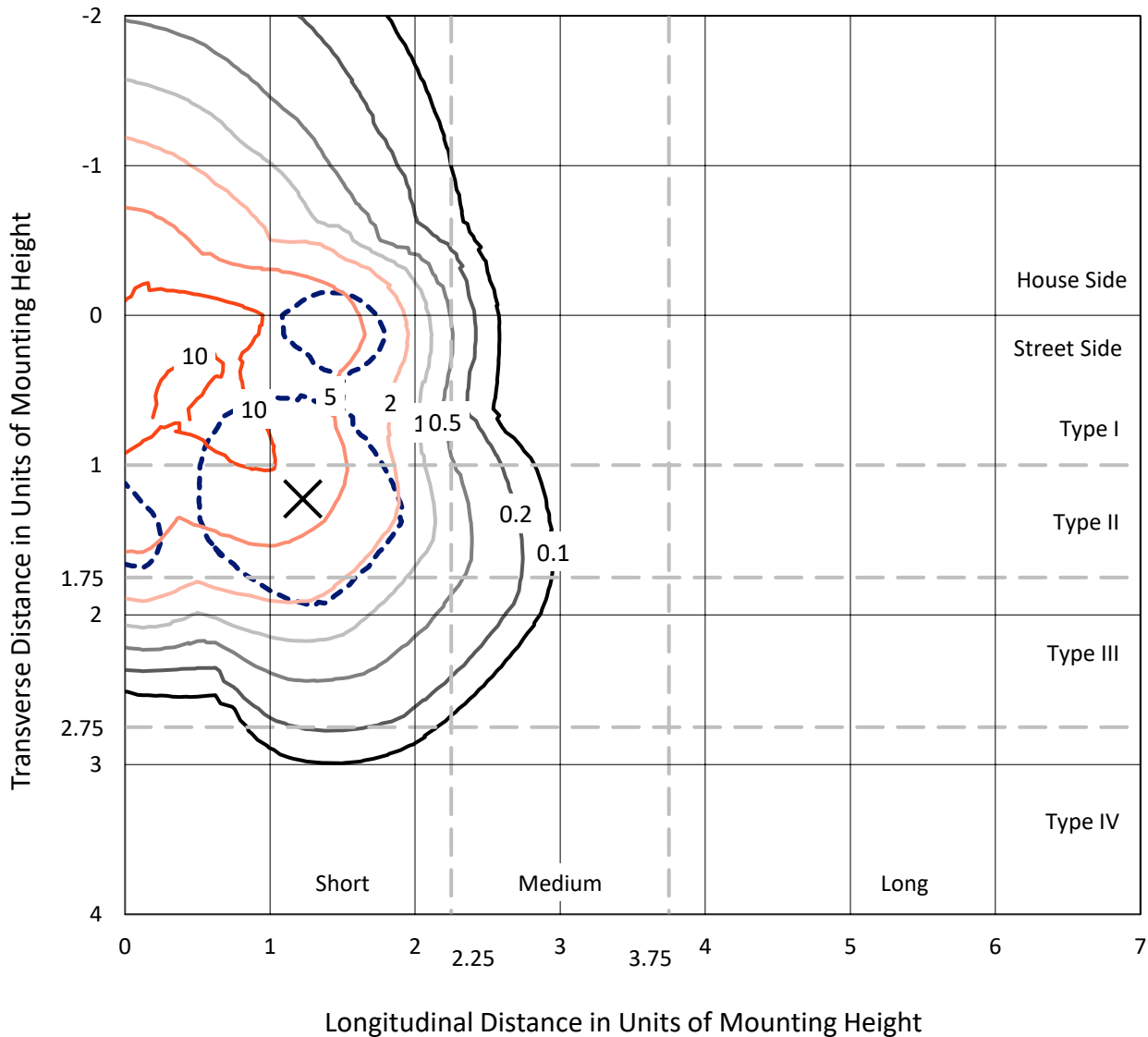


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Iso-Footcandle Lines of Horizontal Illumination

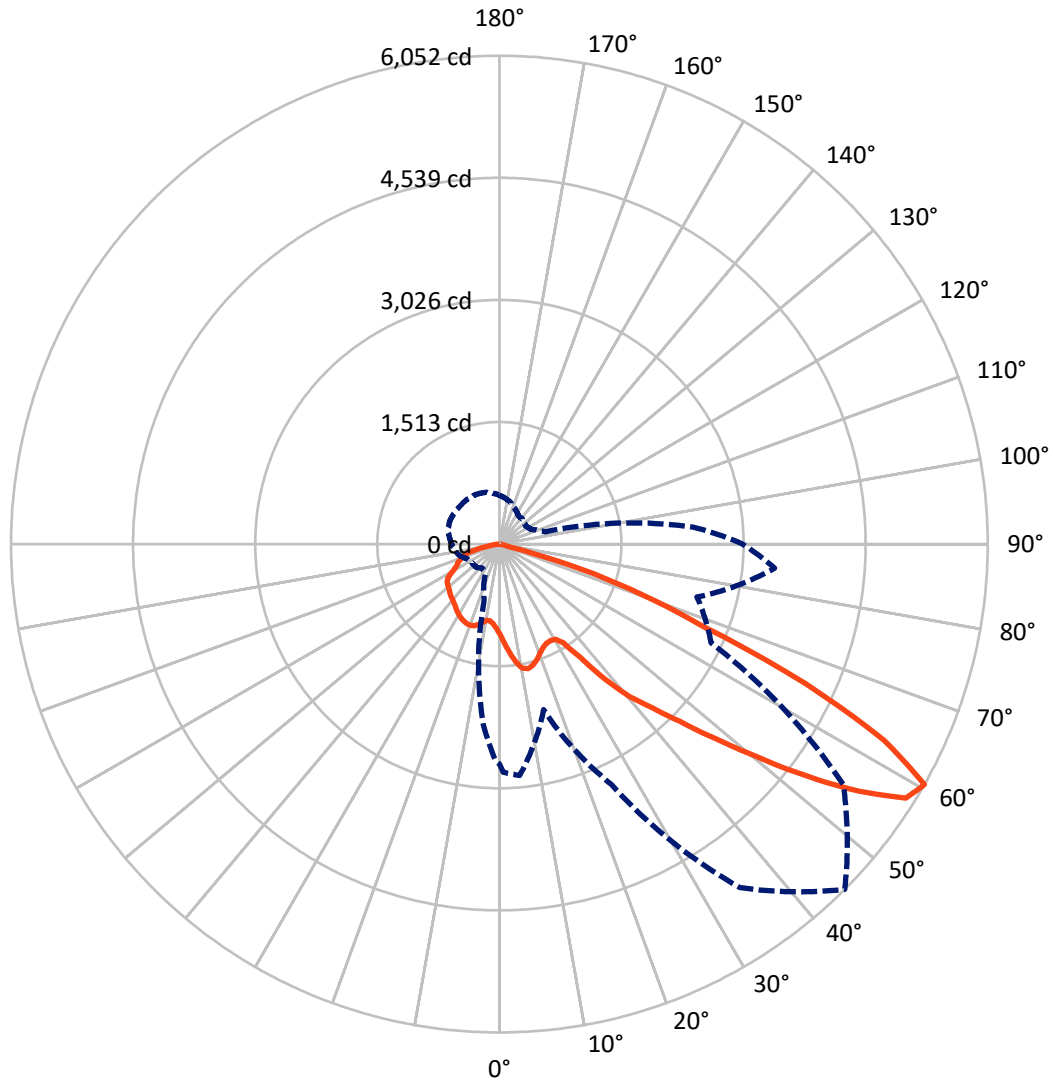
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.9 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	1909.5	0.0	1909.5
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	3538.0	0.0	3538.0
	% Fixture	64.9	0.0	64.9
Total	Lumens	5447.5	0.0	5447.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.2	2.0
10°-20°	345.0	6.3
20°-30°	560.5	10.3
30°-40°	790.4	14.5
40°-50°	1092.3	20.1
50°-60°	1406.1	25.8
60°-70°	890.9	16.4
70°-80°	228.6	4.2
80°-90°	24.5	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°	5447.5	100.0
0°-180°	5447.5	100.0

Coefficient of Utilization



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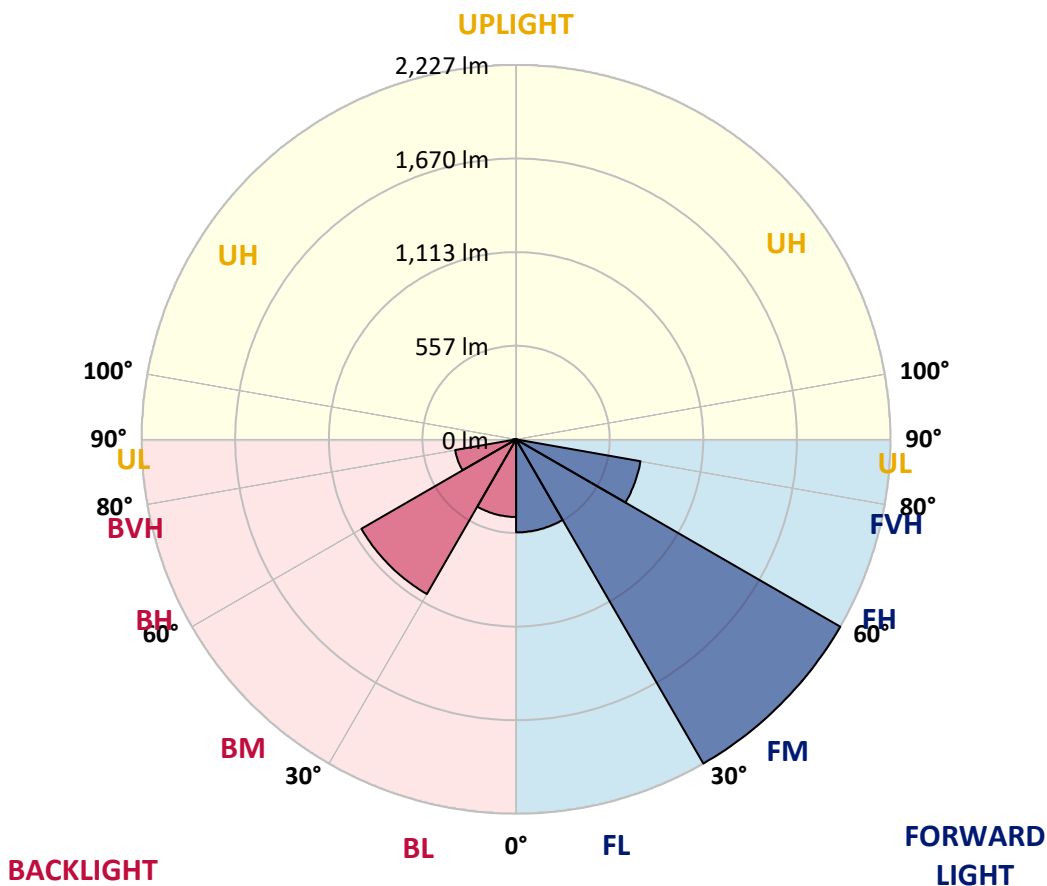
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	553.1	10.2			
FM (30°-60°)	2226.6	40.9			
FH (60°-80°)	751.6	13.8			G1/1800
FVH (80°-90°)	6.6	0.1			G0/10
BL (0°-30°)	461.5	8.5	B1/500		
BM (30°-60°)	1062.2	19.5	B2/2500		
BH (60°-80°)	368.0	6.8	B1/500		G1/500
BVH (80°-90°)	17.8	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°	1119.1	1119.1	1119.1	1119.1	1119.1	1119.1	1119.1	1119.1	1119.1	1119.1	1119.1
2.5°	1170.5	1178.5	1183.5	1192.9	1209.9	1219.4	1229.9	1218.4	1221.4	1219.9	1201.4
5°	1239.9	1249.4	1262.3	1290.3	1321.7	1339.2	1355.7	1353.2	1337.7	1311.7	1293.3
7.5°	1304.8	1315.7	1338.2	1383.6	1430.0	1457.0	1477.0	1464.0	1451.0	1410.1	1363.7
10°	1355.7	1362.2	1392.6	1453.5	1507.4	1537.9	1562.3	1559.3	1541.4	1495.4	1433.0
12.5°	1403.6	1408.1	1441.0	1501.9	1550.3	1563.8	1583.8	1590.3	1584.3	1549.8	1488.4
15°	1455.0	1463.5	1493.9	1540.4	1562.3	1548.3	1555.3	1573.3	1590.3	1590.3	1533.9
17.5°	1502.9	1510.4	1541.4	1561.3	1540.4	1503.4	1505.4	1528.4	1568.8	1611.2	1575.3
20°	1545.3	1552.3	1582.8	1563.8	1497.4	1443.5	1442.0	1470.0	1535.4	1624.7	1619.7
22.5°	1591.8	1601.7	1627.2	1565.8	1457.5	1389.1	1388.6	1417.6	1505.9	1638.2	1670.6
25°	1657.7	1673.1	1686.1	1583.3	1436.0	1353.7	1360.2	1387.6	1496.4	1660.1	1746.0
27.5°	1755.5	1768.0	1767.0	1619.7	1435.0	1339.2	1352.7	1384.6	1513.4	1699.1	1825.4
30°	1861.3	1867.8	1857.3	1670.6	1458.0	1348.2	1368.1	1406.1	1556.3	1763.5	1942.2
32.5°	1978.6	1986.6	1966.6	1747.0	1511.4	1414.6	1458.5	1477.0	1616.7	1856.3	2065.9
35°	2113.4	2128.8	2087.4	1847.8	1668.6	1656.7	1720.5	1696.6	1745.0	1966.1	2198.2
37.5°	2255.1	2255.6	2196.2	1997.1	1977.1	1997.6	2125.3	2050.5	2017.0	2088.4	2333.0
40°	2375.4	2372.4	2281.1	2198.2	2245.6	2327.0	2481.2	2366.4	2278.6	2252.6	2444.8
42.5°	2495.7	2484.7	2392.4	2326.0	2430.8	2598.0	2772.2	2631.5	2446.3	2401.9	2555.1
45°	2649.4	2646.0	2534.6	2376.9	2598.0	2901.5	3132.6	2904.5	2545.6	2488.7	2738.8
47.5°	2897.5	2880.5	2673.4	2372.9	2754.8	3305.8	3597.8	3248.4	2615.0	2490.7	3035.3
50°	3140.1	3119.1	2839.1	2372.4	2916.5	3725.1	4146.9	3666.2	2685.9	2502.7	3336.8
52.5°	3385.2	3385.2	3111.2	2428.8	3086.2	4193.3	4781.3	4186.8	2806.7	2659.4	3707.6
55°	3530.9	3569.9	3417.1	2524.2	3284.9	4744.3	5408.7	4748.8	2993.4	2942.4	4050.0
57.5°	3345.7	3418.6	3396.7	2457.8	3402.2	5149.1	5940.8	5175.1	3085.7	2975.9	3998.6
60°	2726.3	2827.6	2878.1	2122.4	3286.4	5196.1	6052.1	5203.1	2895.0	2534.1	3425.1
62.5°	1812.4	1895.7	1972.6	1516.4	2845.1	4674.5	5352.8	4676.0	2417.8	1891.2	2372.9
65°	889.0	950.9	1033.7	896.5	2222.7	3905.8	4173.3	3778.5	1749.0	1058.7	1210.4
67.5°	232.6	250.1	261.6	347.9	1592.3	2806.2	2721.8	2763.7	1123.6	345.9	316.5
70°	120.8	121.8	121.3	143.8	1076.1	1783.4	1875.8	1735.5	784.2	144.8	124.8
72.5°	86.4	86.9	85.4	96.8	519.6	1021.7	1058.7	1047.2	410.8	85.9	85.4
75°	56.4	56.9	55.9	56.9	78.4	116.3	107.3	112.8	68.4	54.4	54.4
77.5°	33.4	33.9	33.4	34.4	33.4	33.4	30.9	30.9	29.4	29.4	29.9
80°	22.5	22.5	22.0	23.0	21.0	21.0	20.0	19.5	18.0	17.5	17.5
82.5°	13.5	14.0	13.5	13.5	12.5	12.5	11.5	11.0	9.5	9.5	9.0
85°	7.0	7.0	6.5	6.5	5.5	5.0	4.0	4.0	3.0	2.5	2.5
87.5°	1.0	1.0	0.5	0.5	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°	1119.1	1119.1	1119.1	1119.1	1119.1	1119.1	1119.1	1119.1	1119.1	1119.1	1119.1
2.5°	1196.4	1186.5	1171.5	1157.0	1143.5	1129.6	1113.6	1097.1	1083.1	1068.7	1061.2
5°	1268.8	1248.4	1209.4	1175.0	1144.0	1118.6	1091.1	1067.7	1045.7	1027.7	1018.7
7.5°	1334.2	1302.3	1243.4	1189.0	1147.0	1112.1	1074.2	1039.2	1009.8	987.8	979.3
10°	1394.6	1356.7	1279.3	1210.4	1161.5	1122.6	1076.1	1028.7	989.8	960.8	953.9
12.5°	1443.5	1400.1	1307.8	1227.9	1170.0	1128.1	1087.1	1046.2	1007.8	970.3	964.3
15°	1486.9	1435.5	1329.2	1238.9	1167.0	1113.6	1079.1	1074.2	1074.2	1031.7	1019.7
17.5°	1524.4	1468.0	1346.7	1243.9	1148.0	1070.7	1049.7	1093.1	1142.0	1111.6	1084.6
20°	1567.3	1498.9	1361.2	1243.9	1113.1	1016.3	1014.3	1088.1	1160.5	1161.0	1132.6
22.5°	1610.7	1534.9	1378.1	1239.4	1065.2	953.4	990.3	1068.2	1132.6	1160.0	1140.5
25°	1681.1	1584.8	1405.1	1235.9	1009.3	910.4	968.8	1041.7	1096.1	1125.1	1112.6
27.5°	1770.5	1650.7	1446.0	1241.4	953.9	885.0	945.9	1007.3	1056.7	1082.1	1073.2
30°	1870.3	1726.5	1489.9	1250.8	913.9	872.0	918.4	967.8	1011.8	1037.2	1033.2
32.5°	1997.6	1808.9	1527.9	1237.9	891.5	865.5	889.5	924.9	967.3	983.3	986.8
35°	2149.8	1899.7	1556.8	1187.0	871.0	858.5	858.0	880.0	909.9	935.4	937.9
37.5°	2290.1	2006.1	1588.8	1099.6	834.1	841.1	821.1	834.1	863.5	889.0	899.0
40°	2428.8	2113.9	1633.2	988.3	785.6	802.1	778.7	787.6	811.1	844.5	860.5
42.5°	2563.6	2211.2	1680.1	874.5	737.2	747.7	730.2	739.2	763.7	805.6	823.6
45°	2710.3	2343.0	1716.5	767.2	695.3	690.8	676.8	689.8	726.8	772.7	794.1
47.5°	2987.9	2550.6	1740.5	695.8	672.8	640.4	624.4	652.4	694.3	740.7	766.7
50°	3326.8	2851.1	1733.5	650.4	653.4	588.5	583.0	619.9	664.9	713.3	741.7
52.5°	3595.3	3146.1	1654.2	607.0	615.4	555.5	539.6	593.5	636.4	685.8	715.3
55°	3800.5	3245.4	1410.6	555.5	553.5	531.6	498.1	566.0	608.0	653.9	685.8
57.5°	3633.3	3024.3	1045.7	484.7	472.7	484.2	451.7	519.6	573.0	618.4	646.9
60°	3015.3	2411.4	582.5	429.3	395.3	423.3	418.3	470.7	535.1	583.0	607.5
62.5°	2047.0	1605.7	345.4	339.4	320.4	360.4	386.8	421.3	484.7	523.6	546.6
65°	1020.2	780.2	229.6	254.1	256.6	296.5	346.4	384.3	437.2	477.2	500.1
67.5°	296.0	242.6	174.7	194.2	221.1	253.1	293.0	337.9	389.3	436.7	463.7
70°	127.8	129.3	138.8	161.7	188.2	221.1	261.1	305.0	348.4	384.8	405.3
72.5°	90.3	93.8	104.3	127.8	152.7	184.2	224.1	266.5	298.0	334.9	356.4
75°	57.9	60.4	68.9	86.9	105.3	135.8	173.7	212.6	245.1	271.5	292.0
77.5°	31.9	32.4	39.4	49.9	62.4	81.9	109.8	140.3	164.2	179.2	197.7
80°	18.5	18.5	22.0	28.5	35.9	47.9	63.4	78.4	92.8	102.3	111.3
82.5°	10.0	10.0	11.5	15.5	19.5	26.5	35.4	42.9	51.9	56.9	62.9
85°	3.0	3.0	4.0	5.5	7.0	10.0	14.0	18.0	22.0	25.5	29.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1119.1	1119.1	1119.1	1119.1	1119.1	1119.1	1119.1	1119.1	1119.1	1119.1	1119.1
2.5°	1059.7	1052.7	1048.7	1043.7	1045.2	1040.7	1038.2	1039.7	1030.7	1039.7	1048.7
5°	1015.3	1005.3	997.3	990.8	987.8	981.8	978.3	978.3	972.8	981.8	992.8
7.5°	976.3	968.3	964.3	960.3	955.9	950.4	944.4	942.4	938.9	948.4	957.9
10°	950.4	951.4	953.9	959.4	958.4	954.9	945.9	940.9	940.9	951.9	966.3
12.5°	962.3	972.8	978.8	988.8	990.8	987.8	978.8	974.8	984.8	1001.3	1025.2
15°	1008.8	1015.8	1020.7	1028.7	1028.2	1025.7	1018.7	1021.7	1054.7	1086.6	1108.1
17.5°	1059.2	1051.2	1050.2	1055.2	1056.7	1053.7	1049.7	1063.2	1117.6	1147.5	1158.5
20°	1095.6	1068.2	1062.2	1064.2	1068.2	1066.7	1066.7	1088.6	1145.0	1159.0	1145.0
22.5°	1106.6	1067.7	1058.7	1059.2	1064.7	1065.2	1067.7	1090.6	1123.6	1124.1	1102.6
25°	1089.1	1051.7	1045.2	1046.2	1052.7	1052.2	1053.2	1066.2	1080.6	1074.7	1058.7
27.5°	1056.2	1023.7	1021.7	1027.2	1035.7	1031.2	1028.2	1031.7	1038.7	1031.2	1017.3
30°	1018.7	991.3	992.3	1002.8	1011.8	1004.3	996.8	998.8	999.3	991.3	975.3
32.5°	979.3	958.9	962.3	973.3	983.8	975.8	967.8	966.8	957.4	947.9	932.4
35°	939.9	931.9	936.4	945.4	954.4	947.9	942.9	939.9	919.4	905.4	892.5
37.5°	903.9	909.9	917.9	923.4	926.4	925.9	922.9	915.9	889.0	872.5	855.5
40°	872.0	890.5	899.0	901.5	905.9	904.9	904.4	894.5	859.0	841.6	822.1
42.5°	843.1	869.0	883.5	886.0	888.5	889.0	887.5	873.0	832.6	812.1	793.6
45°	815.1	849.0	867.5	865.0	868.5	868.5	870.0	851.0	806.6	785.6	766.2
47.5°	790.6	830.6	847.5	844.5	846.5	848.0	849.5	827.6	778.2	758.2	738.2
50°	768.2	810.6	825.1	826.1	826.1	829.6	829.1	807.6	754.2	732.7	712.8
52.5°	744.2	790.1	805.6	812.1	814.1	815.6	808.6	783.7	729.7	703.8	685.3
55°	716.3	769.2	783.2	791.6	795.6	794.6	785.2	759.7	704.8	678.8	657.9
57.5°	673.8	724.3	744.2	748.2	754.7	750.7	739.7	718.3	664.9	638.9	617.4
60°	627.4	663.9	679.8	683.3	678.3	679.8	678.3	657.9	611.4	591.0	569.0
62.5°	566.5	599.0	615.9	620.4	611.9	617.4	615.4	590.0	543.6	522.1	502.6
65°	520.6	556.0	576.0	578.5	576.0	578.5	571.5	540.6	496.6	474.7	454.7
67.5°	484.7	521.1	542.1	549.1	546.6	546.1	535.1	499.1	453.7	429.8	404.3
70°	422.8	454.7	481.7	498.6	498.6	489.2	468.2	434.8	398.3	377.9	357.9
72.5°	374.4	414.8	441.2	458.7	462.2	456.7	427.3	391.8	349.9	329.4	308.5
75°	308.5	347.9	376.4	399.3	403.8	397.8	363.9	328.9	290.0	270.0	249.1
77.5°	206.1	229.6	252.6	273.5	269.0	273.0	250.1	223.6	199.7	184.7	175.2
80°	116.3	131.8	138.8	150.2	150.2	150.2	135.3	122.8	109.3	100.8	91.3
82.5°	65.9	75.9	78.9	88.3	90.8	91.3	81.4	73.4	64.9	60.4	53.9
85°	30.4	35.9	36.4	41.9	43.9	47.9	43.4	37.9	32.9	30.9	27.0
87.5°	1.0	3.0	4.0	7.5	10.0	11.5	12.5	12.5	10.5	9.5	8.0
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1119.1	1119.1	1119.1	1119.1	1119.1	1119.1	1119.1	1119.1	1119.1	1119.1
2.5°	1059.7	1071.7	1085.6	1095.6	1113.6	1128.6	1144.0	1161.0	1173.5	1170.5
5°	1006.3	1026.2	1051.7	1075.2	1108.6	1142.5	1180.0	1218.4	1240.9	1239.9
7.5°	976.3	1004.8	1035.7	1067.2	1106.6	1155.5	1212.9	1272.8	1303.3	1304.8
10°	992.3	1022.7	1043.7	1070.2	1111.6	1173.0	1241.9	1313.7	1348.7	1355.7
12.5°	1042.7	1040.2	1038.7	1057.7	1107.6	1185.5	1269.8	1355.7	1395.1	1403.6
15°	1090.6	1039.2	1008.3	1021.2	1089.6	1193.4	1297.3	1401.6	1446.0	1455.0
17.5°	1099.6	1021.7	964.3	973.3	1061.2	1195.9	1323.7	1446.5	1494.4	1502.9
20°	1074.7	999.3	932.4	919.9	1025.2	1189.5	1340.2	1483.9	1536.4	1545.3
22.5°	1043.2	979.3	908.4	876.0	981.3	1183.0	1358.7	1523.4	1583.8	1591.8
25°	1010.3	953.9	886.0	836.6	931.4	1179.0	1389.6	1575.3	1648.2	1657.7
27.5°	975.3	922.9	866.5	817.6	885.5	1184.0	1433.5	1659.1	1742.0	1755.5
30°	937.9	892.0	854.0	811.1	854.0	1188.5	1482.0	1745.0	1842.3	1861.3
32.5°	899.0	863.5	841.1	814.1	834.6	1178.0	1524.4	1841.3	1962.1	1978.6
35°	860.0	834.6	824.6	819.6	808.6	1139.5	1558.8	1938.7	2098.9	2113.4
37.5°	823.6	804.6	801.6	807.1	768.7	1076.6	1598.8	2062.5	2233.2	2255.1
40°	789.6	772.2	771.7	770.7	724.8	990.8	1652.7	2188.2	2365.4	2375.4
42.5°	758.2	736.2	740.2	728.2	688.8	898.0	1703.6	2295.6	2488.7	2495.7
45°	730.2	701.3	705.8	690.8	671.8	800.6	1748.5	2422.3	2645.0	2649.4
47.5°	703.3	672.3	659.9	658.9	668.9	710.8	1792.4	2666.4	2889.5	2897.5
50°	678.3	644.9	609.5	631.4	650.4	643.4	1847.3	2928.0	3142.1	3140.1
52.5°	654.4	610.5	560.0	602.5	602.5	593.5	1831.9	3086.7	3350.7	3385.2
55°	626.9	555.0	508.6	554.0	532.1	548.6	1557.8	3138.6	3482.0	3530.9
57.5°	572.5	486.7	446.2	470.7	437.7	508.6	1119.1	2881.0	3258.9	3345.7
60°	520.1	436.3	409.8	405.3	362.4	414.8	725.3	2255.6	2682.4	2726.3
62.5°	458.7	392.8	370.4	335.9	291.5	302.0	439.2	1484.4	1802.4	1812.4
65°	412.3	355.9	313.0	272.0	238.6	219.1	259.6	715.8	901.0	889.0
67.5°	353.9	305.0	264.0	234.6	207.1	182.7	172.7	212.6	240.6	232.6
70°	315.0	268.0	228.6	200.7	175.2	150.7	133.3	125.3	122.8	120.8
72.5°	271.5	230.6	189.7	162.7	138.8	116.3	100.3	90.8	88.3	86.4
75°	216.6	178.2	140.8	115.3	94.3	78.4	67.9	59.9	58.4	56.4
77.5°	143.3	114.3	83.9	68.4	55.9	47.4	40.4	35.4	34.4	33.4
80°	78.9	65.9	51.4	41.4	33.4	29.0	26.5	23.5	23.0	22.5
82.5°	46.9	39.4	29.4	23.5	19.5	17.5	16.0	14.5	14.0	13.5
85°	23.5	18.5	13.0	11.0	10.0	9.0	9.0	7.5	7.0	7.0
87.5°	6.0	5.0	3.0	2.5	2.5	2.5	2.0	1.5	1.5	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)