

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: P633753

Luminaire Tested: GWS-SA2F-735-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633753
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-42)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-735-U-SLR-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8536.1 lumens
Efficiency: N/A
Efficacy: 68.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

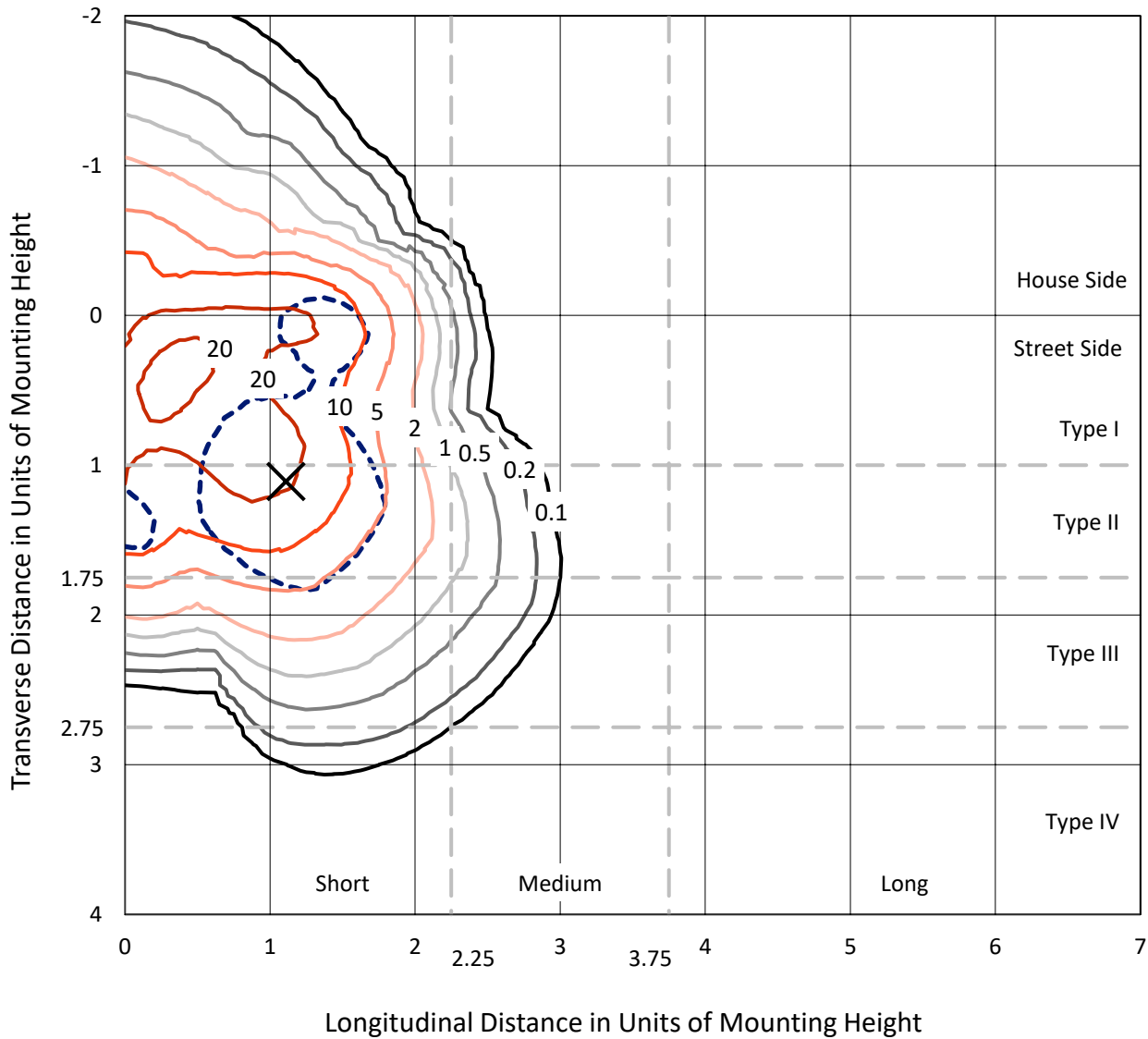
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

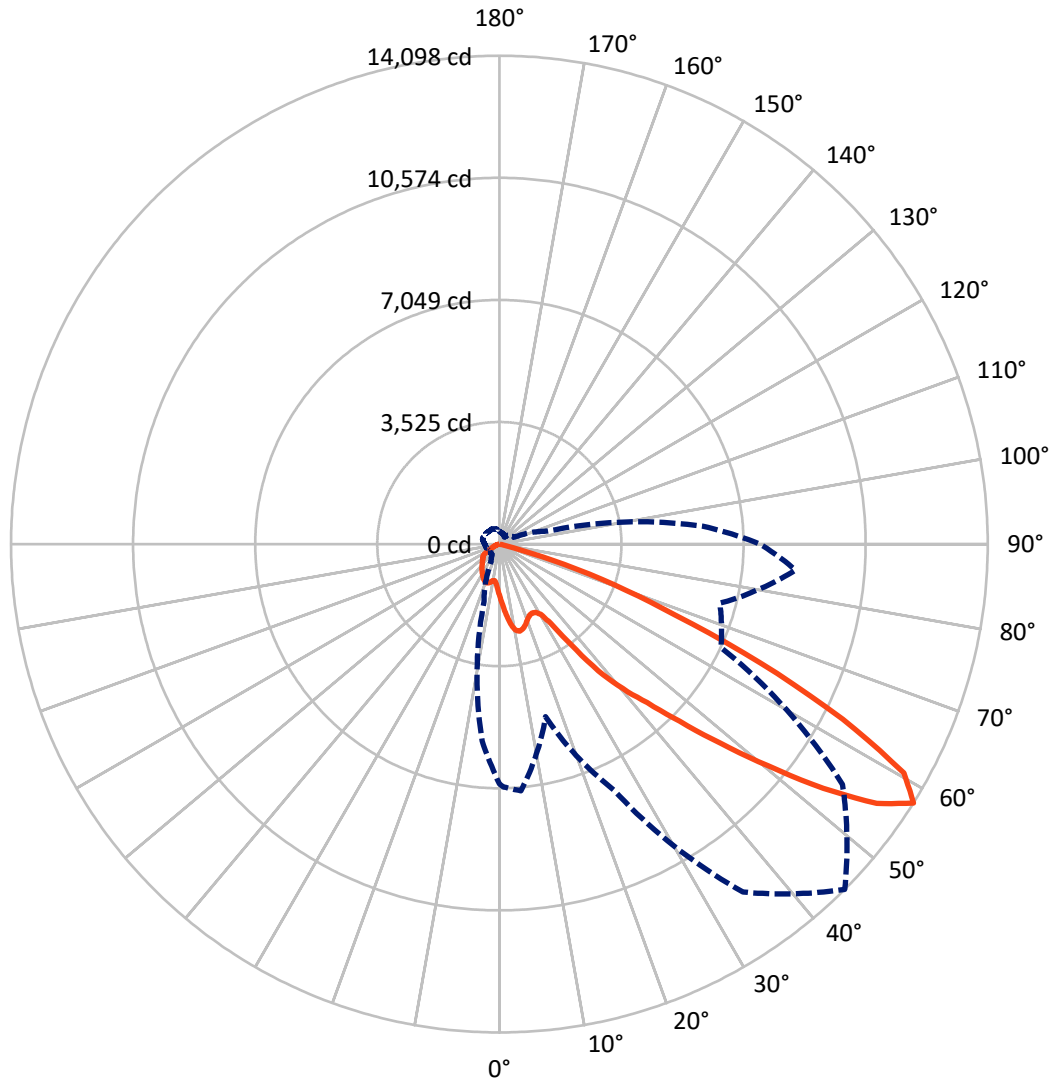
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 26.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1911.5	0.0	1911.5
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	6624.6	0.0	6624.6
	% Fixture	77.6	0.0	77.6
Total	Lumens	8536.1	0.0	8536.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.6	1.7
10°-20°	477.5	5.6
20°-30°	775.6	9.1
30°-40°	1198.4	14.0
40°-50°	1921.7	22.5
50°-60°	2626.4	30.8
60°-70°	1272.1	14.9
70°-80°	116.5	1.4
80°-90°	0.3	0.0
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°	8536.1	100.0
0°-180°	8536.1	100.0

Coefficient of Utilization



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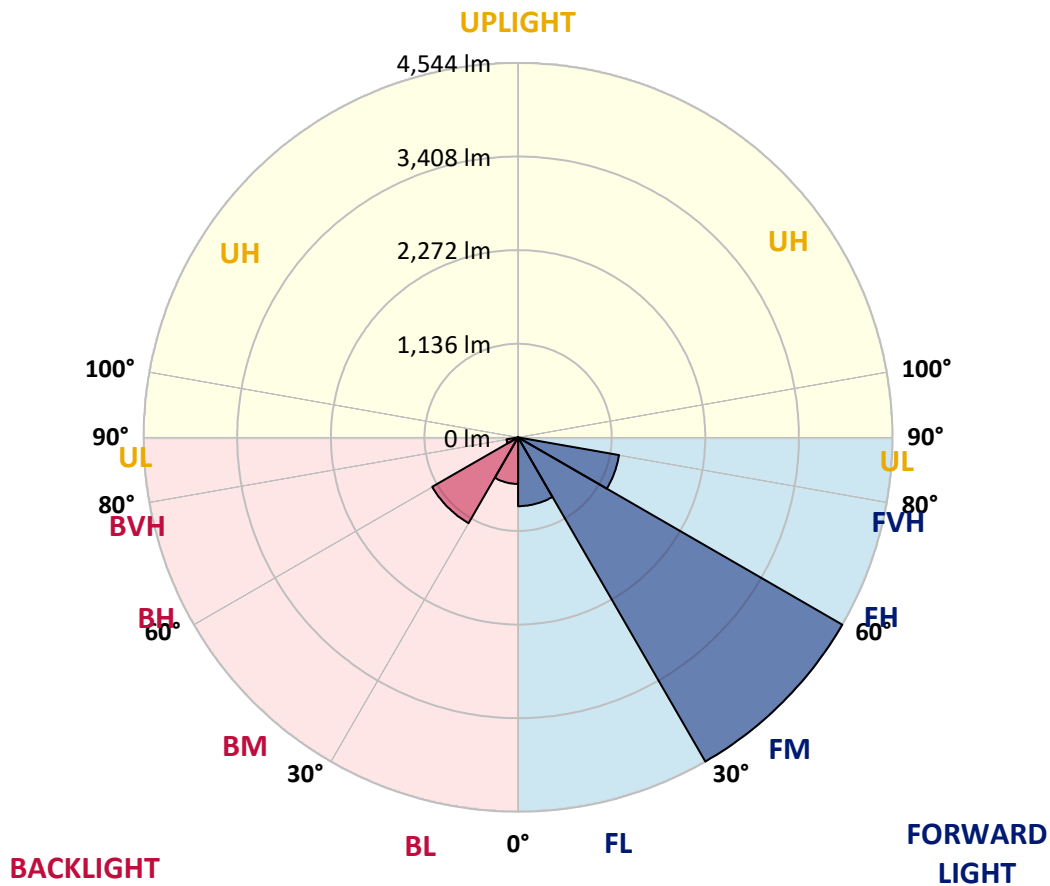
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	835.1	9.8			
FM (30°-60°)	4544.0	53.2			
FH (60°-80°)	1245.3	14.6			G1/1800
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	565.6	6.6	B2/1000		
BM (30°-60°)	1202.6	14.1	B2/2500		
BH (60°-80°)	143.3	1.7	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
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°	1500.3	1500.3	1500.3	1500.3	1500.3	1500.3	1500.3	1500.3	1500.3	1500.3	1500.3
2.5°	1625.3	1635.7	1652.9	1689.6	1720.5	1741.2	1750.4	1748.1	1735.5	1726.3	1707.9
5°	1799.7	1799.7	1832.9	1916.7	1980.9	2021.1	2041.7	2029.1	2003.9	1963.7	1901.8
7.5°	1952.2	1958.0	2014.2	2133.5	2231.0	2288.3	2321.6	2314.7	2270.0	2193.1	2069.2
10°	2071.5	2078.4	2153.0	2298.6	2413.3	2471.8	2521.2	2525.8	2476.4	2374.3	2232.1
12.5°	2187.4	2194.3	2272.3	2412.2	2513.1	2537.2	2580.8	2598.0	2585.4	2513.1	2365.2
15°	2312.4	2328.5	2395.0	2499.4	2541.8	2513.1	2541.8	2572.8	2615.2	2608.3	2475.3
17.5°	2435.1	2446.6	2514.3	2551.0	2504.0	2429.4	2443.2	2479.9	2576.2	2670.3	2584.3
20°	2548.7	2564.8	2621.0	2572.8	2430.6	2314.7	2315.8	2364.0	2510.8	2708.1	2695.5
22.5°	2668.0	2692.1	2732.2	2596.9	2362.9	2224.1	2229.8	2273.4	2459.2	2743.7	2821.7
25°	2824.0	2846.9	2873.3	2656.5	2341.1	2179.4	2201.1	2241.3	2459.2	2804.5	2977.7
27.5°	3035.0	3051.1	3052.2	2767.8	2378.9	2186.2	2232.1	2278.0	2532.6	2926.1	3186.4
30°	3300.0	3325.2	3292.0	2941.0	2497.1	2278.0	2345.7	2403.0	2690.9	3131.4	3493.8
32.5°	3622.3	3657.9	3613.1	3197.9	2743.7	2594.6	2717.3	2750.6	2943.3	3428.5	3842.5
35°	4000.8	4030.7	3982.5	3553.5	3319.5	3347.0	3569.5	3527.1	3450.3	3794.4	4249.7
37.5°	4416.1	4443.6	4350.7	4092.6	4170.6	4289.9	4645.5	4499.8	4252.0	4265.8	4691.3
40°	4796.9	4826.7	4681.0	4678.7	4839.3	5057.2	5486.2	5285.5	4948.3	4882.9	5105.4
42.5°	5191.4	5212.1	5080.2	4990.7	5355.5	5804.0	6258.2	5987.5	5409.4	5338.3	5623.9
45°	5754.6	5798.2	5563.1	5144.4	5820.0	6663.1	7296.2	6767.5	5723.7	5666.3	6417.6
47.5°	6582.8	6614.9	6135.4	5240.8	6252.4	7733.3	8593.5	7779.1	6000.1	5869.3	7502.7
50°	7267.6	7289.4	6661.9	5346.3	6712.4	8887.2	10072.0	8978.9	6310.9	6205.4	8515.5
52.5°	7772.3	7854.8	7353.6	5563.1	7316.9	10244.1	11708.9	10400.1	6796.1	6854.6	9355.2
55°	7876.6	7989.0	7826.2	5696.1	7849.1	11626.3	13220.6	11672.1	7280.2	7346.7	9637.3
57.5°	6922.3	7011.8	7147.1	5159.3	7836.5	12259.4	14098.1	12094.3	7060.0	6588.5	8580.9
60°	5185.7	5247.6	5493.1	3943.5	7206.8	11699.7	13414.5	11376.2	6173.3	5027.4	6538.1
62.5°	3075.2	3102.7	3413.6	2554.4	5981.7	10075.5	11125.0	9816.3	4878.3	3381.4	4004.3
65°	1180.3	1168.8	1406.3	1260.6	4398.8	8025.7	8274.7	7483.2	3347.0	1549.6	1526.7
67.5°	182.4	174.3	235.1	372.8	3172.7	5561.9	5459.8	5393.3	2096.8	361.3	315.4
70°	41.3	41.3	50.5	110.1	1938.5	3267.9	3497.3	3334.4	1342.0	76.9	41.3
72.5°	19.5	19.5	24.1	47.0	702.0	1346.6	1569.1	1545.0	435.9	25.2	14.9
75°	6.9	8.0	8.0	10.3	42.4	70.0	160.6	114.7	27.5	0.0	0.0
77.5°	2.3	2.3	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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°	1500.3	1500.3	1500.3	1500.3	1500.3	1500.3	1500.3	1500.3	1500.3	1500.3	1500.3
2.5°	1667.8	1659.7	1629.9	1589.8	1550.8	1516.4	1480.8	1438.4	1407.4	1371.8	1360.4
5°	1853.6	1803.1	1721.7	1636.8	1558.8	1492.3	1428.0	1359.2	1308.8	1258.3	1241.1
7.5°	2010.7	1936.2	1804.3	1677.0	1570.3	1476.2	1383.3	1289.3	1215.8	1156.2	1137.9
10°	2151.8	2065.8	1889.2	1732.0	1597.8	1488.8	1376.4	1258.3	1163.1	1092.0	1074.8
12.5°	2273.4	2173.6	1961.4	1773.3	1609.3	1484.3	1375.3	1281.2	1195.2	1113.8	1092.0
15°	2375.5	2265.4	2022.2	1800.8	1592.1	1426.9	1331.7	1316.8	1309.9	1220.4	1178.0
17.5°	2475.3	2351.4	2071.5	1813.4	1543.9	1326.0	1257.1	1324.8	1397.1	1338.6	1284.7
20°	2579.7	2438.6	2122.0	1815.7	1463.6	1212.4	1200.9	1307.6	1399.4	1381.0	1330.6
22.5°	2702.4	2547.5	2185.1	1814.6	1362.7	1116.1	1159.6	1274.3	1348.9	1347.8	1307.6
25°	2880.2	2685.2	2270.0	1821.5	1252.6	1041.5	1113.8	1218.1	1278.9	1276.6	1243.4
27.5°	3070.6	2849.2	2380.1	1838.7	1158.5	997.9	1059.9	1141.3	1194.1	1191.8	1163.1
30°	3337.8	3038.5	2485.6	1839.8	1090.8	975.0	1000.2	1056.4	1106.9	1101.1	1079.4
32.5°	3662.5	3251.8	2573.9	1774.5	1048.4	953.2	938.3	966.9	1005.9	997.9	992.2
35°	4054.7	3505.3	2649.6	1631.1	983.0	909.6	869.4	875.2	902.7	907.3	905.0
37.5°	4502.1	3807.0	2743.7	1441.8	894.7	846.5	792.6	788.0	804.1	819.0	830.4
40°	4943.7	4146.5	2871.0	1250.3	814.4	766.2	714.6	703.1	710.0	736.4	760.5
42.5°	5440.3	4539.9	3008.7	1086.2	759.3	677.9	628.6	606.8	626.3	668.7	697.4
45°	6156.1	5091.7	3142.9	955.5	736.4	599.9	533.4	531.1	552.9	607.9	640.0
47.5°	7160.9	5805.1	3231.2	853.4	735.2	539.1	460.0	473.7	499.0	552.9	589.6
50°	8140.5	6698.6	3133.7	775.4	711.2	499.0	404.9	432.4	457.7	504.7	542.5
52.5°	8731.2	7179.2	2754.0	702.0	636.6	480.6	351.0	399.2	403.8	446.2	486.3
55°	8669.2	6868.4	2109.4	588.4	526.5	454.2	294.8	360.2	362.5	394.6	429.0
57.5°	7524.5	5896.9	1448.7	477.2	395.7	375.1	243.2	304.0	325.8	345.3	370.5
60°	5607.8	4302.5	645.8	387.7	251.2	253.5	207.6	229.4	262.7	285.6	307.4
62.5°	3304.6	2475.3	262.7	232.8	138.8	159.4	167.5	167.5	188.1	205.3	219.1
65°	1249.1	866.0	106.7	117.0	72.3	74.6	98.6	121.6	137.6	152.6	170.9
67.5°	219.1	151.4	55.1	43.6	42.4	37.9	50.5	79.1	88.3	99.8	107.8
70°	36.7	31.0	22.9	21.8	19.5	20.6	33.3	56.2	61.9	65.4	68.8
72.5°	10.3	9.2	6.9	5.7	4.6	5.7	20.6	43.6	45.9	48.2	51.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	8.0	31.0	33.3	34.4	37.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	9.2	11.5	9.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1500.3	1500.3	1500.3	1500.3	1500.3	1500.3	1500.3	1500.3	1500.3	1500.3	1500.3
2.5°	1353.5	1330.6	1317.9	1311.1	1311.1	1301.9	1291.6	1288.1	1303.0	1303.0	1328.3
5°	1219.3	1200.9	1180.3	1167.7	1148.2	1151.6	1140.1	1139.0	1153.9	1160.8	1187.2
7.5°	1126.4	1103.4	1090.8	1082.8	1072.5	1067.9	1057.6	1054.1	1062.1	1073.6	1098.9
10°	1064.4	1061.0	1059.9	1065.6	1065.6	1059.9	1050.7	1044.9	1047.2	1069.0	1097.7
12.5°	1080.5	1087.4	1089.7	1098.9	1103.4	1098.9	1092.0	1094.3	1109.2	1149.3	1191.8
15°	1150.5	1144.7	1142.4	1147.0	1150.5	1145.9	1143.6	1160.8	1212.4	1269.8	1317.9
17.5°	1225.0	1188.3	1172.3	1172.3	1174.6	1172.3	1174.6	1207.8	1291.6	1348.9	1384.5
20°	1262.9	1195.2	1170.0	1164.2	1168.8	1170.0	1178.0	1215.8	1307.6	1347.8	1355.8
22.5°	1251.4	1166.5	1137.9	1133.3	1137.9	1142.4	1150.5	1182.6	1268.6	1289.3	1285.8
25°	1194.1	1110.3	1087.4	1087.4	1097.7	1096.6	1100.0	1122.9	1194.1	1206.7	1200.9
27.5°	1121.8	1042.6	1023.1	1034.6	1043.8	1041.5	1042.6	1062.1	1114.9	1118.4	1112.6
30°	1048.4	979.6	961.2	975.0	987.6	985.3	986.4	1005.9	1039.2	1035.8	1027.7
32.5°	973.8	923.4	909.6	917.6	937.1	934.8	939.4	960.1	972.7	957.8	948.6
35°	905.0	878.6	868.3	872.9	887.8	891.2	899.3	913.0	913.0	894.7	878.6
37.5°	840.8	837.3	830.4	824.7	838.5	848.8	860.3	876.3	853.4	827.0	812.1
40°	781.1	796.0	786.9	771.9	780.0	794.9	817.8	830.4	802.9	776.5	751.3
42.5°	726.1	751.3	747.9	729.5	736.4	750.2	776.5	786.9	754.7	724.9	700.8
45°	673.3	708.9	711.2	688.2	695.1	708.9	739.8	743.3	702.0	669.9	652.7
47.5°	627.4	666.4	667.6	650.4	652.7	672.2	700.8	702.0	655.0	625.1	603.3
50°	583.8	628.6	632.0	617.1	619.4	642.3	666.4	661.8	611.4	580.4	560.9
52.5°	531.1	591.9	599.9	593.0	602.2	620.5	635.5	619.4	560.9	529.9	512.7
55°	473.7	552.9	570.1	565.5	575.8	590.7	594.2	583.8	510.4	479.5	463.4
57.5°	407.2	455.4	485.2	476.0	484.0	499.0	509.3	501.3	446.2	422.1	408.3
60°	337.2	369.3	376.2	361.3	354.4	380.8	404.9	394.6	347.5	332.6	316.6
62.5°	246.6	283.3	287.9	268.4	260.4	289.1	309.7	299.4	247.8	231.7	219.1
65°	197.3	231.7	240.9	222.5	217.9	239.7	252.3	227.1	190.4	173.2	159.4
67.5°	129.6	157.1	181.2	180.1	170.9	177.8	168.6	148.0	121.6	112.4	103.2
70°	80.3	96.4	111.3	117.0	115.8	113.6	100.9	86.0	78.0	74.6	70.0
72.5°	61.9	78.0	89.5	92.9	94.1	90.6	80.3	66.5	58.5	53.9	50.5
75°	45.9	58.5	67.7	72.3	74.6	72.3	61.9	52.8	44.7	41.3	37.9
77.5°	16.1	19.5	24.1	26.4	25.2	24.1	21.8	21.8	17.2	16.1	13.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1500.3	1500.3	1500.3	1500.3	1500.3	1500.3	1500.3	1500.3	1500.3	1500.3
2.5°	1356.9	1377.6	1415.4	1449.8	1486.5	1524.4	1565.7	1608.1	1627.6	1625.3
5°	1227.3	1272.1	1334.0	1401.7	1477.4	1558.8	1649.4	1742.3	1782.5	1799.7
7.5°	1145.9	1209.0	1290.4	1376.4	1476.2	1592.1	1728.6	1874.2	1932.7	1952.2
10°	1156.2	1229.6	1297.3	1381.0	1487.7	1638.0	1807.7	1980.9	2049.7	2071.5
12.5°	1239.9	1256.0	1274.3	1343.2	1477.4	1672.4	1880.0	2086.4	2165.6	2187.4
15°	1315.6	1241.1	1206.7	1269.8	1440.7	1696.5	1953.4	2200.0	2287.2	2312.4
17.5°	1319.1	1206.7	1129.8	1179.1	1381.0	1706.8	2025.6	2315.8	2411.1	2435.1
20°	1276.6	1168.8	1070.2	1071.3	1299.6	1704.5	2085.3	2420.2	2526.9	2548.7
22.5°	1214.7	1124.1	1022.0	986.4	1212.4	1699.9	2150.7	2531.5	2647.3	2668.0
25°	1145.9	1066.7	976.1	922.2	1125.2	1704.5	2242.4	2677.2	2804.5	2824.0
27.5°	1071.3	1003.6	940.6	897.0	1051.8	1721.7	2352.6	2863.0	3014.4	3035.0
30°	993.3	942.9	917.6	891.2	1005.9	1726.3	2471.8	3079.8	3271.3	3300.0
32.5°	916.5	888.9	890.1	894.7	962.4	1694.2	2580.8	3320.6	3576.4	3622.3
35°	845.4	837.3	860.3	883.2	899.3	1611.6	2676.0	3605.1	3953.8	4000.8
37.5°	784.6	791.4	820.1	843.1	830.4	1494.6	2802.2	3960.7	4375.9	4416.1
40°	726.1	743.3	776.5	786.9	777.7	1358.1	2953.6	4303.6	4741.8	4796.9
42.5°	672.2	684.8	731.8	734.1	762.8	1219.3	3099.3	4673.0	5162.8	5191.4
45°	628.6	626.3	674.5	689.4	782.3	1065.6	3241.5	5165.1	5713.3	5754.6
47.5°	586.1	583.8	595.3	663.0	790.3	923.4	3382.6	5885.4	6511.7	6582.8
50°	546.0	549.4	513.9	650.4	746.7	814.4	3446.8	6551.8	7237.7	7267.6
52.5°	510.4	497.8	435.9	609.1	653.8	711.2	3264.4	6854.6	7687.4	7772.3
55°	460.0	390.0	359.0	494.4	516.2	620.5	2673.7	6679.1	7726.4	7876.6
57.5°	393.4	306.3	305.1	364.8	364.8	575.8	1712.5	5706.5	6658.5	6922.3
60°	302.8	237.4	252.3	253.5	234.0	419.8	961.2	4133.9	4923.0	5185.7
62.5°	215.6	181.2	190.4	151.4	134.2	209.9	461.1	2380.1	3038.5	3075.2
65°	144.5	122.7	99.8	83.7	82.6	89.5	190.4	860.3	1046.1	1180.3
67.5°	95.2	74.6	52.8	52.8	59.6	59.6	72.3	142.2	199.6	182.4
70°	61.9	51.6	33.3	32.1	39.0	39.0	36.7	39.0	41.3	41.3
72.5°	45.9	39.0	19.5	17.2	21.8	22.9	20.6	19.5	19.5	19.5
75°	34.4	27.5	11.5	8.0	10.3	13.8	11.5	8.0	8.0	6.9
77.5°	13.8	10.3	4.6	3.4	5.7	8.0	6.9	3.4	2.3	2.3
80°	1.1	2.3	2.3	2.3	3.4	4.6	5.7	2.3	1.1	1.1
82.5°	0.0	1.1	1.1	1.1	2.3	3.4	4.6	2.3	1.1	1.1
85°	0.0	0.0	0.0	0.0	2.3	3.4	2.3	1.1	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	1.1	3.4	2.3	1.1	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

(END OF REPORT)