

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: P631332

Luminaire Tested: GWS-SA1F-740-U-SLL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631332
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-37)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-740-U-SLL-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7896.1 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

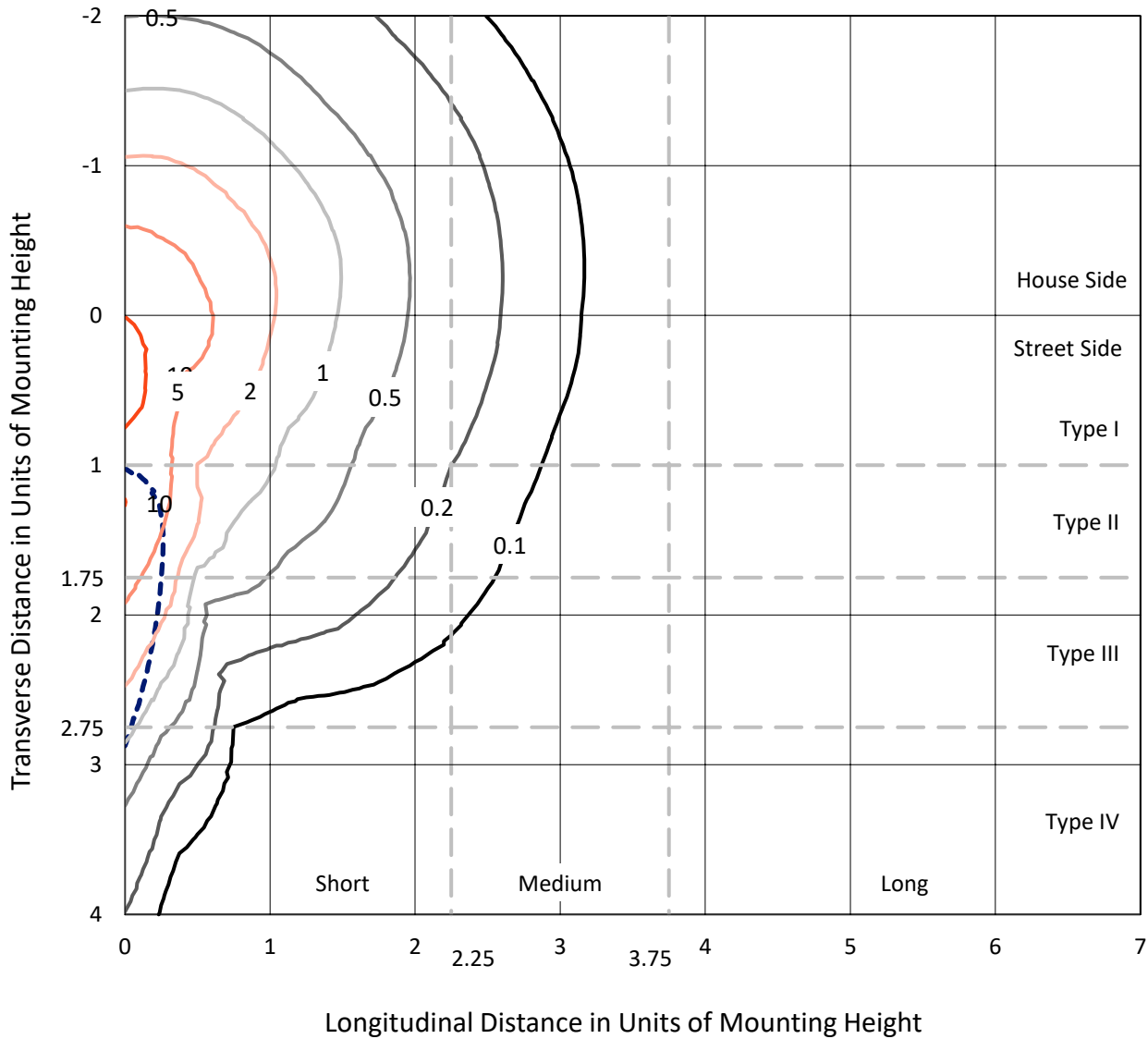
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

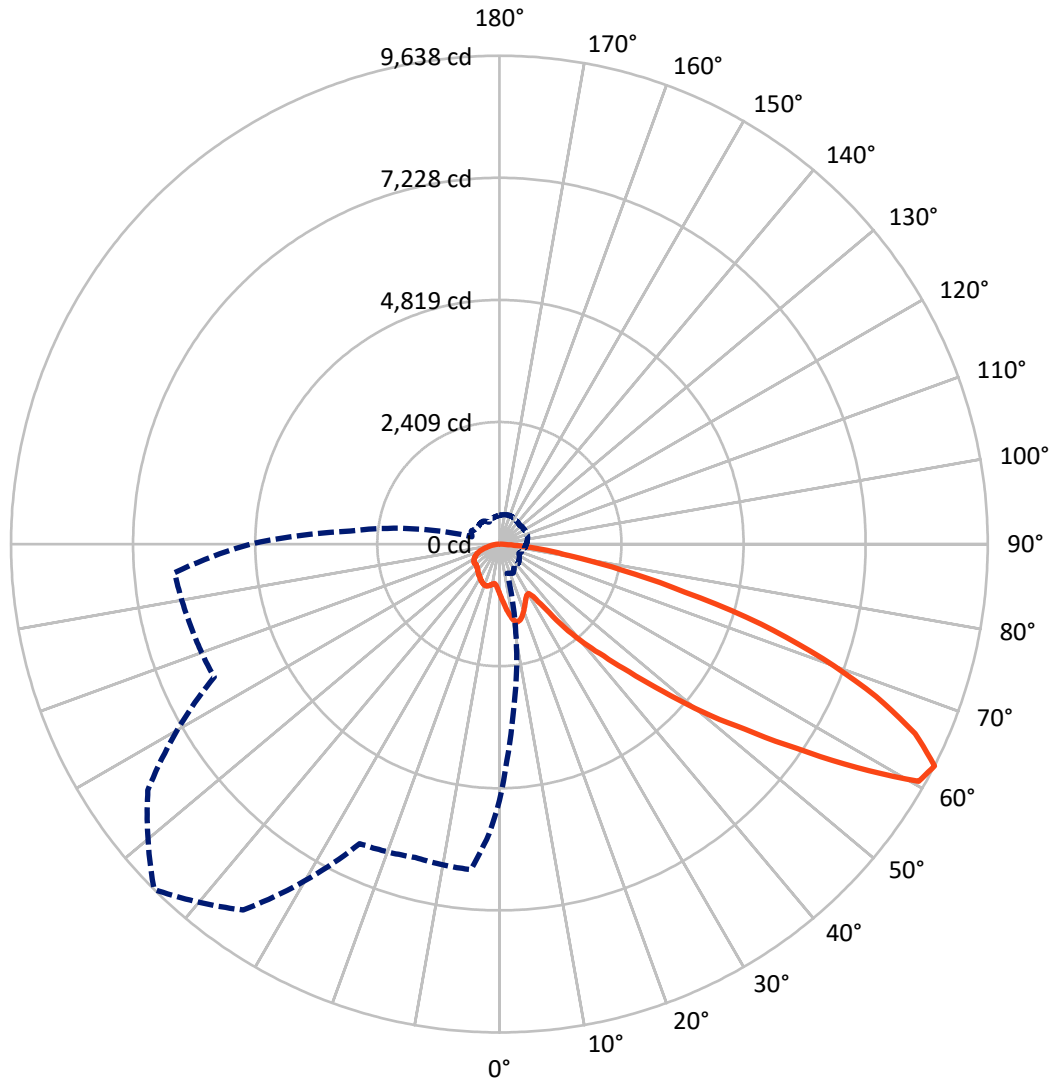
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1888.0	0.0	1888.0
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	6008.1	0.0	6008.1
	% Fixture	76.1	0.0	76.1
Total	Lumens	7896.1	0.0	7896.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.0	1.2
10°-20°	315.2	4.0
20°-30°	496.2	6.3
30°-40°	680.1	8.6
40°-50°	1061.2	13.4
50°-60°	1829.8	23.2
60°-70°	2120.5	26.9
70°-80°	1119.3	14.2
80°-90°	176.8	2.2
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°	7896.1	100.0
0°-180°	7896.1	100.0

Coefficient of Utilization



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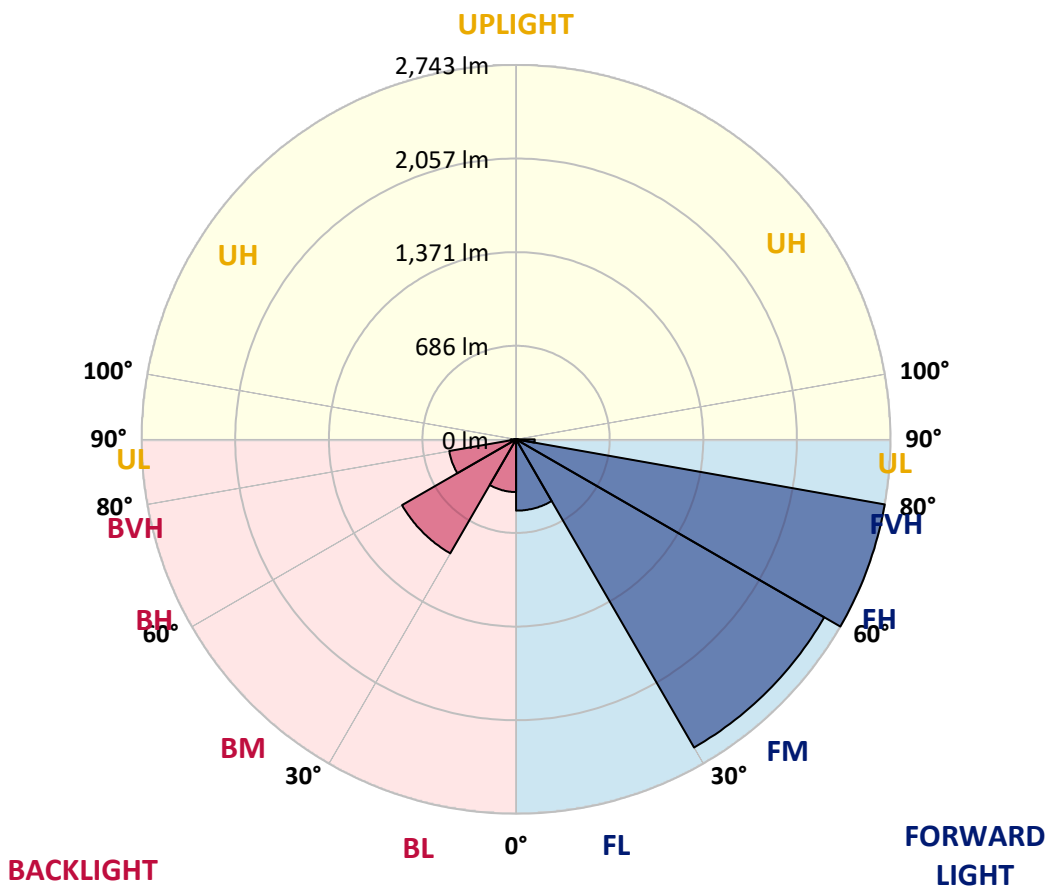
CATALOG NUMBER: GWS-SA1F-740-U-SLL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	522.2	6.6			
FM (30°-60°)	2606.8	33.0			
FH (60°-80°)	2742.7	34.7			G2/5000
FVH (80°-90°)	136.5	1.7			G2/225
BL (0°-30°)	386.2	4.9	B1/500		
BM (30°-60°)	964.4	12.2	B1/1000		
BH (60°-80°)	497.1	6.3	B1/500		G1/500
BVH (80°-90°)	40.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	984.5	984.5	984.5	984.5	984.5	984.5	984.5	984.5	984.5	984.5	984.5
2.5°	1069.6	1065.4	1059.4	1038.8	1026.2	1011.7	996.6	979.0	959.1	945.2	931.3
5°	1160.2	1153.6	1139.1	1090.2	1056.4	1019.5	988.7	953.7	919.3	895.7	872.1
7.5°	1247.2	1238.8	1216.4	1141.5	1086.6	1033.4	986.9	936.2	884.8	849.8	822.0
10°	1334.2	1316.7	1288.3	1190.4	1118.0	1056.4	1003.2	941.0	872.7	825.0	795.4
12.5°	1400.6	1384.3	1353.5	1235.1	1149.4	1072.1	1012.3	954.9	896.9	846.2	816.0
15°	1462.8	1441.7	1406.7	1276.8	1175.3	1071.5	994.1	944.0	893.6	842.9	813.6
17.5°	1507.5	1488.2	1452.0	1310.6	1189.8	1052.7	944.0	914.4	872.5	829.1	795.7
20°	1546.8	1524.4	1487.6	1334.2	1192.9	1011.1	883.0	883.6	843.4	806.6	777.5
22.5°	1580.0	1555.2	1522.6	1360.8	1191.6	953.1	829.9	866.1	825.9	787.6	758.8
25°	1621.1	1600.5	1573.4	1400.0	1191.6	893.9	791.2	845.0	806.3	769.3	739.1
27.5°	1671.2	1657.3	1635.0	1459.8	1202.5	844.4	769.5	817.8	785.2	754.4	727.8
30°	1727.4	1714.7	1697.8	1523.2	1221.2	807.5	757.4	784.0	753.6	723.7	697.7
32.5°	1784.7	1779.9	1761.8	1574.0	1206.7	796.0	747.1	750.1	725.8	695.8	674.0
35°	1864.5	1859.6	1836.7	1613.2	1143.9	779.7	730.8	715.7	691.5	667.2	643.4
37.5°	1981.0	1973.8	1940.0	1659.1	1049.1	738.7	704.2	679.5	654.0	629.5	607.3
40°	2121.8	2110.9	2065.0	1721.3	939.8	683.1	662.6	642.0	623.0	604.8	588.8
42.5°	2298.1	2275.2	2209.3	1787.2	831.7	634.2	616.1	603.4	593.1	581.9	572.4
45°	2584.4	2521.6	2417.1	1845.7	740.5	608.2	574.4	565.3	556.9	549.7	543.2
47.5°	3084.5	2968.5	2765.0	1895.9	684.9	608.8	541.2	531.5	530.9	524.6	519.5
50°	3771.8	3604.5	3290.5	1929.7	655.9	616.1	521.2	505.5	517.0	512.7	508.4
52.5°	4430.2	4174.7	3800.8	1929.1	643.2	617.3	526.7	481.4	517.0	514.4	511.0
55°	4992.5	4529.8	3938.5	1731.0	625.1	612.4	547.8	462.6	510.4	519.4	535.7
57.5°	5439.4	4755.7	3928.3	1398.2	680.1	585.9	560.5	458.4	491.0	520.6	539.4
60°	5389.9	4652.4	3675.2	858.2	674.6	538.7	558.7	466.3	458.4	504.3	535.1
62.5°	5060.7	4282.2	3239.7	595.5	633.6	511.6	529.1	480.2	428.2	480.8	514.6
65°	4599.9	3804.4	2699.8	456.6	524.9	512.8	479.0	470.5	401.6	443.3	479.6
67.5°	3990.5	3211.9	2131.4	361.8	366.0	443.9	434.9	418.0	376.9	410.1	442.7
70°	2999.9	2344.0	1466.5	291.1	277.2	370.8	390.8	375.7	352.7	362.4	396.8
72.5°	2113.9	1530.5	803.3	230.7	213.8	285.1	339.4	337.0	311.7	318.9	352.7
75°	1570.9	1082.9	501.9	182.4	173.9	204.1	284.5	291.7	270.6	279.0	305.0
77.5°	1045.5	701.2	279.0	135.3	135.3	149.2	212.0	245.8	230.1	236.8	254.9
80°	576.8	356.9	139.5	88.8	91.2	102.7	154.6	177.0	177.6	193.9	198.7
82.5°	182.4	113.5	62.2	51.9	48.9	58.6	99.7	126.8	118.4	151.0	138.9
85°	41.7	26.6	11.5	11.5	12.7	19.3	38.1	67.6	86.4	103.9	75.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	26.6	39.3	35.0
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°	984.5	984.5	984.5	984.5	984.5	984.5	984.5	984.5	984.5	984.5	984.5
2.5°	922.9	910.8	907.2	896.9	895.7	886.0	882.4	882.4	886.6	886.6	890.9
5°	862.5	847.4	838.9	826.8	823.8	816.6	811.7	812.3	817.8	821.4	828.7
7.5°	809.3	799.1	793.0	787.6	786.4	785.2	779.7	779.1	780.9	786.4	791.8
10°	787.0	779.7	781.5	785.8	792.4	796.0	791.2	788.8	787.0	790.6	795.4
12.5°	808.7	801.5	805.1	812.3	821.4	825.0	823.2	822.6	824.4	838.3	848.6
15°	856.4	842.5	837.7	840.7	848.0	851.6	849.8	852.2	863.7	899.9	925.9
17.5°	915.6	881.8	862.5	857.0	860.1	863.1	863.1	869.1	889.1	942.2	974.8
20°	947.6	903.5	870.9	857.6	858.9	861.9	861.9	870.3	892.7	949.4	970.6
22.5°	939.2	898.7	858.9	844.4	845.0	847.4	847.4	854.6	874.6	924.7	934.4
25°	906.0	870.3	831.1	818.4	819.6	823.8	822.6	826.8	841.9	883.0	888.4
27.5°	866.1	834.7	796.0	786.4	791.8	800.3	793.0	793.6	807.5	841.9	842.5
30°	823.2	797.2	762.8	755.6	765.8	770.1	763.4	763.4	777.3	800.9	800.3
32.5°	776.7	760.4	735.6	727.8	739.3	745.9	737.5	738.7	749.5	765.2	759.2
35°	733.2	724.8	713.3	707.9	715.1	721.1	715.7	718.1	728.4	732.6	724.2
37.5°	691.6	690.3	691.6	691.6	693.4	695.2	691.6	697.6	706.7	701.2	691.6
40°	655.3	660.1	671.6	668.6	666.8	668.6	666.2	676.5	685.5	675.8	664.4
42.5°	625.1	634.2	651.7	651.7	648.1	649.3	648.1	660.7	667.4	654.1	641.4
45°	599.1	612.4	634.8	637.8	631.8	631.8	634.2	649.9	652.3	634.2	620.9
47.5°	581.0	597.3	622.7	628.1	619.1	618.5	625.1	642.0	642.0	620.9	605.8
50°	568.3	586.5	616.7	623.9	614.8	612.4	623.3	639.6	636.0	610.6	595.5
52.5°	559.9	578.6	616.1	626.3	620.3	617.9	628.7	640.2	631.2	604.0	588.3
55°	554.4	575.0	617.9	626.3	619.7	615.5	626.3	636.6	631.8	600.4	585.3
57.5°	557.5	578.0	615.5	619.7	611.8	604.6	617.3	631.8	629.9	601.6	586.5
60°	552.6	571.4	602.2	603.4	590.1	578.6	597.3	619.1	619.1	597.3	584.0
62.5°	530.3	549.0	576.2	577.4	562.3	549.6	571.4	597.3	596.7	579.2	565.3
65°	493.4	511.0	541.8	544.8	529.7	516.4	538.7	562.9	564.7	549.0	536.9
67.5°	453.0	468.7	491.6	503.7	491.0	477.1	497.7	520.6	520.0	501.3	488.6
70°	404.7	419.2	440.3	450.6	442.7	429.4	448.1	460.2	454.8	445.7	437.3
72.5°	356.9	370.8	390.8	390.8	382.3	369.6	375.1	396.8	403.5	396.8	391.4
75°	306.8	318.9	332.8	335.8	317.1	294.1	319.5	338.2	346.1	343.1	336.4
77.5°	255.5	264.5	285.1	279.6	244.6	232.5	253.1	280.8	286.3	284.5	275.4
80°	196.9	202.3	224.1	213.2	186.0	178.2	187.2	209.0	210.2	204.1	192.7
82.5°	132.3	139.5	154.0	132.9	132.3	125.0	117.8	120.2	131.1	129.9	122.0
85°	67.6	71.3	85.2	79.7	68.2	59.2	56.2	59.8	53.8	48.9	42.3
87.5°	28.4	30.8	42.3	23.6	7.2	0.0	0.0	3.6	5.4	7.9	8.5
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°	984.5	984.5	984.5	984.5	984.5	984.5	984.5	984.5	984.5	984.5	984.5
2.5°	900.5	907.2	923.5	944.0	963.9	984.5	1006.8	1020.7	1037.6	1059.4	1060.0
5°	837.7	852.8	876.4	907.8	940.4	977.8	1021.3	1057.6	1101.0	1135.5	1149.4
7.5°	799.1	820.8	850.4	890.3	933.1	979.6	1036.4	1097.4	1168.7	1214.6	1241.8
10°	802.7	835.9	865.5	899.3	938.0	988.1	1061.2	1142.1	1229.7	1290.1	1323.9
12.5°	867.3	902.3	896.9	895.1	921.1	982.1	1081.1	1187.4	1294.3	1354.7	1395.2
15°	948.8	962.1	910.8	872.1	887.8	960.3	1092.0	1227.9	1348.1	1421.8	1461.6
17.5°	990.5	963.9	901.7	843.8	839.5	927.1	1097.4	1269.0	1408.5	1482.2	1524.4
20°	971.2	932.5	880.0	825.0	794.8	881.8	1094.4	1301.6	1463.4	1545.6	1580.0
22.5°	929.5	895.7	854.6	802.1	758.6	832.3	1086.6	1334.2	1512.4	1595.1	1625.3
25°	884.2	858.9	825.0	779.1	738.1	788.8	1081.1	1377.7	1568.5	1647.6	1667.0
27.5°	838.9	820.2	792.4	756.8	733.2	758.6	1082.9	1434.4	1641.0	1715.9	1708.0
30°	794.2	777.9	758.6	742.9	732.6	751.3	1078.1	1494.8	1720.7	1790.2	1743.7
32.5°	751.9	736.9	724.8	727.2	733.2	754.4	1053.3	1549.8	1793.8	1853.0	1782.3
35°	715.7	700.0	700.0	708.5	730.8	744.1	989.3	1592.7	1874.7	1933.9	1837.3
37.5°	681.9	668.0	677.1	690.9	712.1	716.3	907.2	1634.4	1992.5	2048.1	1922.5
40°	652.3	638.4	654.7	672.2	683.1	681.3	823.8	1692.3	2131.4	2188.8	2035.4
42.5°	628.7	616.1	630.6	652.9	654.7	656.5	762.8	1747.9	2292.7	2365.8	2229.9
45°	609.4	600.4	607.6	629.9	629.9	657.7	724.8	1794.4	2535.5	2664.7	2586.8
47.5°	594.3	588.9	592.5	599.7	611.8	679.5	700.6	1830.0	2977.6	3231.3	3152.8
50°	585.9	580.4	585.3	570.2	606.4	690.3	692.8	1857.2	3560.4	3957.9	3860.6
52.5°	578.6	576.8	579.8	544.8	618.5	683.1	686.7	1821.0	3951.2	4673.0	4769.0
55°	576.2	577.4	562.9	526.1	633.0	658.9	668.6	1561.9	4057.5	5289.6	5885.7
57.5°	577.4	573.8	536.9	527.9	633.6	610.6	694.6	1114.3	3902.9	5557.8	6978.3
60°	573.2	555.1	505.5	544.2	605.8	553.8	675.8	726.6	3495.2	5351.8	7041.8
62.5°	554.4	527.9	478.3	553.2	556.3	520.0	613.6	559.9	2951.6	4910.9	6430.5
65°	527.3	491.6	455.4	534.5	506.1	504.3	461.4	448.8	2373.6	4386.1	5850.7
67.5°	482.6	446.9	438.5	491.6	455.4	446.9	370.8	372.0	1894.1	3826.8	5267.9
70°	431.8	396.2	402.9	444.5	405.3	371.4	300.2	309.8	1436.9	3188.4	4482.1
72.5°	398.6	350.9	351.5	391.4	356.3	300.8	247.0	255.5	912.0	2403.2	3563.5
75°	336.4	309.2	295.9	317.1	302.6	234.3	207.8	206.0	540.6	1722.5	2668.4
77.5°	280.8	259.7	253.1	261.5	225.9	173.3	167.3	164.3	306.2	1103.5	1748.5
80°	203.5	198.1	197.5	201.7	173.9	127.4	127.4	128.0	164.9	599.1	985.7
82.5°	129.3	141.3	125.0	138.9	118.4	90.6	84.6	96.0	94.8	255.5	415.5
85°	53.8	73.7	68.9	73.1	56.2	49.5	53.1	57.4	55.0	98.4	161.9
87.5°	10.3	12.1	13.3	12.7	12.7	15.7	17.5	21.1	21.1	28.4	48.9
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):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	984.5	984.5	984.5	984.5	984.5	984.5	984.5	984.5	984.5	984.5
2.5°	1082.9	1100.4	1096.8	1104.7	1094.4	1098.0	1077.5	1072.1	1068.4	1069.6
5°	1194.1	1229.7	1236.3	1249.6	1240.6	1240.6	1204.3	1177.1	1167.5	1160.2
7.5°	1307.0	1358.3	1392.2	1395.8	1391.0	1381.3	1328.7	1279.8	1262.3	1247.2
10°	1407.3	1468.9	1506.9	1525.0	1516.0	1500.9	1435.6	1368.6	1347.5	1334.2
12.5°	1484.0	1538.3	1563.7	1575.8	1574.6	1569.1	1516.0	1443.5	1421.2	1400.6
15°	1533.5	1560.7	1551.0	1550.4	1558.9	1580.6	1564.3	1507.5	1481.6	1462.8
17.5°	1565.5	1539.5	1496.7	1476.7	1494.8	1546.2	1583.6	1551.6	1528.1	1507.5
20°	1577.0	1484.6	1422.4	1385.5	1406.7	1480.9	1573.4	1583.6	1563.7	1546.8
22.5°	1563.7	1417.5	1333.0	1289.5	1310.0	1398.8	1543.2	1609.6	1596.3	1580.0
25°	1531.1	1347.5	1246.0	1206.7	1229.1	1319.7	1489.4	1633.8	1634.4	1621.1
27.5°	1490.6	1282.8	1185.0	1148.2	1169.9	1254.5	1436.9	1654.9	1676.0	1671.2
30°	1449.5	1244.2	1156.0	1130.0	1146.3	1221.2	1383.1	1676.6	1718.9	1727.4
32.5°	1430.8	1262.9	1224.3	1235.7	1214.6	1240.6	1363.8	1707.4	1770.9	1784.7
35°	1455.6	1429.0	1526.9	1572.1	1497.3	1398.8	1388.5	1753.9	1843.9	1864.5
37.5°	1575.8	1784.7	1930.9	2090.4	1960.5	1743.7	1511.1	1833.1	1948.4	1981.0
40°	1837.3	2095.2	2359.1	2565.1	2368.8	2077.1	1744.3	1950.8	2092.2	2121.8
42.5°	2083.7	2386.3	2749.9	3016.3	2761.4	2349.5	1995.5	2148.9	2281.8	2298.1
45°	2325.3	2672.0	3222.8	3593.1	3247.0	2608.6	2252.2	2483.5	2583.8	2584.4
47.5°	2608.6	2993.9	3815.9	4343.2	3891.4	2895.5	2493.2	3013.2	3152.8	3084.5
50°	2947.4	3314.0	4426.5	5215.9	4677.2	3248.2	2799.4	3658.9	3849.1	3771.8
52.5°	3401.0	3666.7	5099.4	6066.9	5533.6	3649.8	3243.3	4511.7	4574.5	4430.2
55°	4039.4	4175.9	5963.1	7117.9	6489.7	4144.5	3892.6	5581.9	5406.2	4992.5
57.5°	5493.2	4981.6	7071.9	8316.7	7571.4	5043.2	5315.6	6762.1	6137.0	5439.4
60°	6709.6	5960.0	8098.1	9506.6	8498.5	6033.7	6651.6	6967.5	6109.8	5389.9
62.5°	6299.5	6209.5	8468.3	9637.6	8815.0	6521.1	6403.3	6449.9	5711.2	5060.7
65°	5527.0	5728.1	8138.0	9016.1	8464.1	6084.4	5792.1	5971.5	5255.2	4599.9
67.5°	5071.0	5219.0	7550.3	8021.4	7826.3	5612.1	5316.8	5186.9	4547.3	3990.5
70°	4604.7	4727.3	6725.3	6773.0	6831.6	4827.0	4347.4	3960.9	3389.5	2999.9
72.5°	3979.0	3985.6	5682.2	5405.6	5516.7	3777.3	3499.4	2961.3	2467.2	2113.9
75°	3338.2	3155.8	4497.8	3778.5	4001.3	2938.3	2905.7	2231.7	1860.8	1570.9
77.5°	2545.2	2331.9	3285.6	2484.8	2810.3	1956.9	2184.6	1513.6	1309.4	1045.5
80°	1708.6	1575.8	1815.6	1402.4	1838.5	1348.7	1424.8	857.6	743.5	576.8
82.5°	901.1	769.5	1122.2	831.7	1108.9	741.1	534.5	265.1	225.9	182.4
85°	349.1	404.1	550.2	295.9	430.0	264.5	154.6	65.8	55.0	41.7
87.5°	67.6	104.5	57.4	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

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