

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: P636558

Luminaire Tested: GWS-SA4B-722-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636558
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-SA4B-722-U-SLR-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5688 lumens
Efficiency: N/A
Efficacy: 60.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

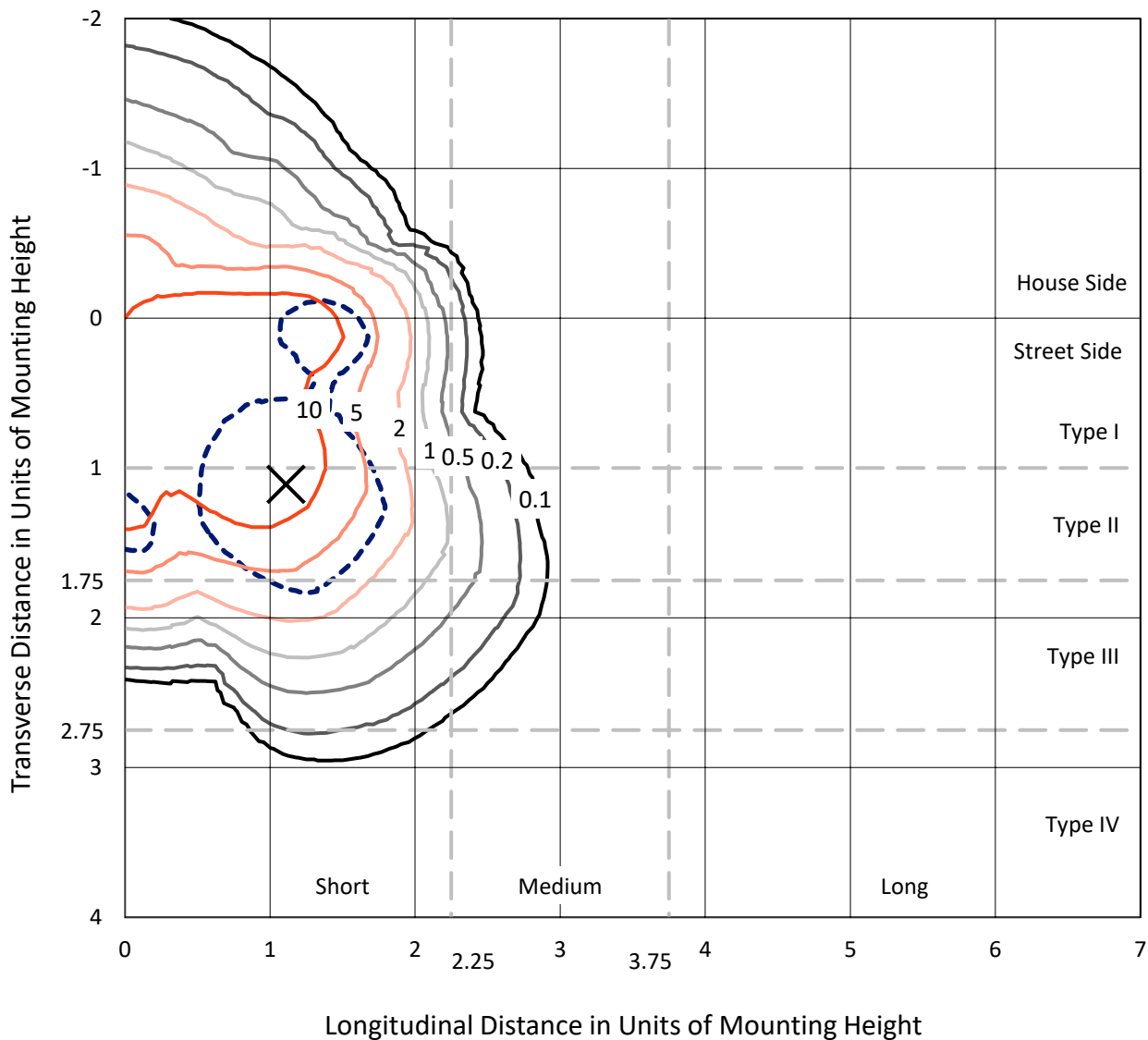
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

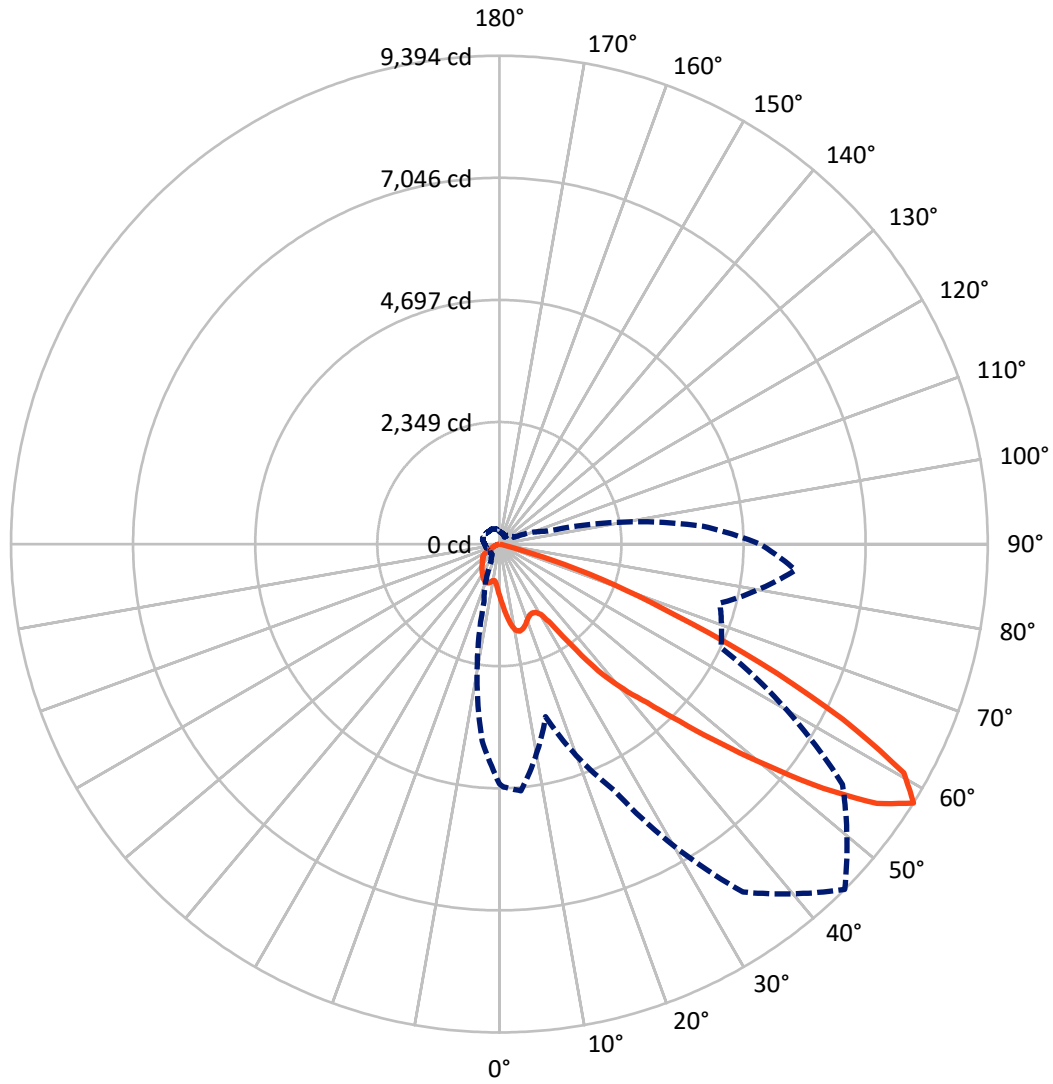
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.8 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	1273.7	0.0	1273.7
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	4414.3	0.0	4414.3
	% Fixture	77.6	0.0	77.6
Total	Lumens	5688.0	0.0	5688.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.3	1.7
10°-20°	318.2	5.6
20°-30°	516.8	9.1
30°-40°	798.6	14.0
40°-50°	1280.5	22.5
50°-60°	1750.1	30.8
60°-70°	847.6	14.9
70°-80°	77.6	1.4
80°-90°	0.2	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°	5688.0	100.0
0°-180°	5688.0	100.0

Coefficient of Utilization

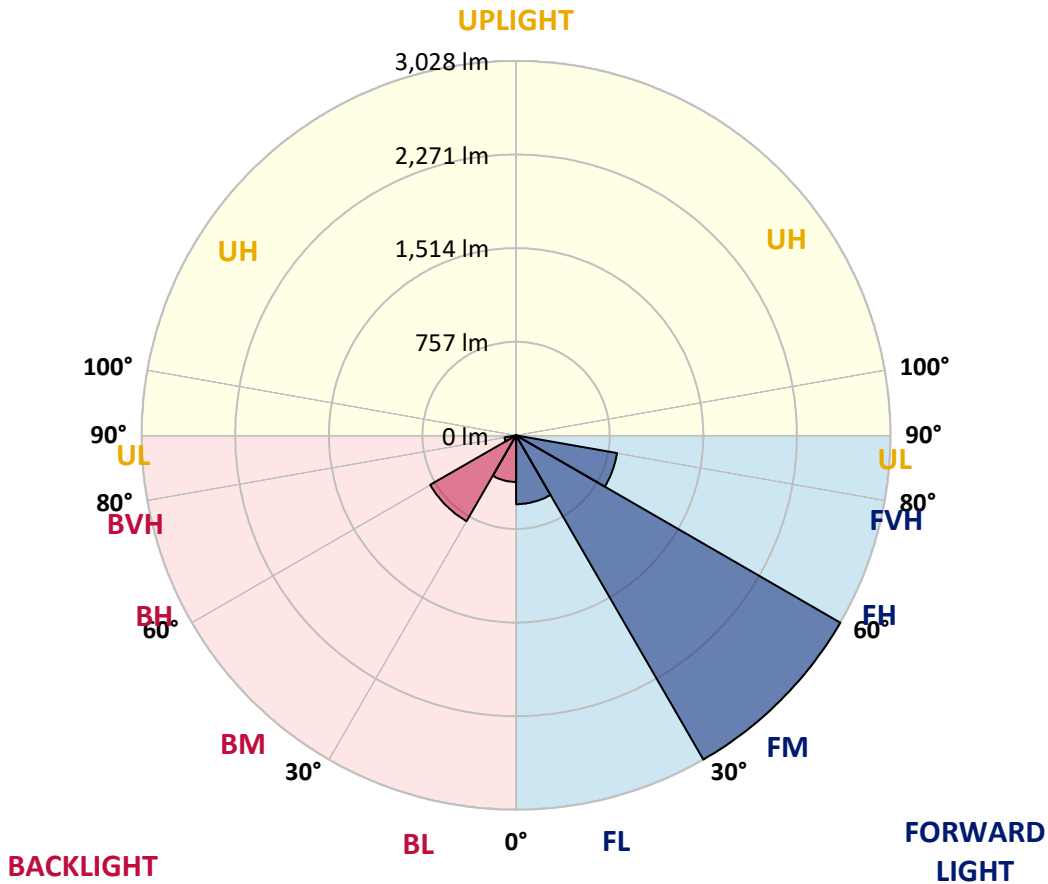


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	556.5	9.8			
FM (30°-60°)	3027.9	53.2			
FH (60°-80°)	829.8	14.6			G1/1800
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	376.9	6.6	B1/500		
BM (30°-60°)	801.4	14.1	B1/1000		
BH (60°-80°)	95.5	1.7	B0/110		G0/110
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: B1-U0-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	999.7	999.7	999.7	999.7	999.7	999.7	999.7	999.7	999.7	999.7	999.7
2.5°	1083.0	1089.9	1101.4	1125.8	1146.5	1160.2	1166.3	1164.8	1156.4	1150.3	1138.1
5°	1199.2	1199.2	1221.4	1277.2	1320.0	1346.7	1360.5	1352.1	1335.3	1308.5	1267.2
7.5°	1300.9	1304.7	1342.1	1421.6	1486.6	1524.8	1547.0	1542.4	1512.6	1461.4	1378.8
10°	1380.4	1384.9	1434.6	1531.7	1608.1	1647.1	1680.0	1683.0	1650.2	1582.1	1487.4
12.5°	1457.6	1462.1	1514.1	1607.4	1674.6	1690.7	1719.7	1731.2	1722.8	1674.6	1576.0
15°	1540.9	1551.6	1595.9	1665.4	1693.7	1674.6	1693.7	1714.4	1742.6	1738.1	1649.4
17.5°	1622.6	1630.3	1675.4	1699.8	1668.5	1618.8	1628.0	1652.5	1716.7	1779.3	1722.0
20°	1698.3	1709.0	1746.5	1714.4	1619.6	1542.4	1543.2	1575.3	1673.1	1804.6	1796.1
22.5°	1777.8	1793.9	1820.6	1730.4	1574.5	1482.0	1485.8	1514.9	1638.7	1828.2	1880.2
25°	1881.7	1897.0	1914.6	1770.2	1560.0	1452.2	1466.7	1493.5	1638.7	1868.8	1984.2
27.5°	2022.4	2033.1	2033.8	1844.3	1585.2	1456.8	1487.4	1517.9	1687.6	1949.8	2123.3
30°	2198.9	2215.8	2193.6	1959.7	1663.9	1517.9	1563.0	1601.2	1793.1	2086.6	2328.1
32.5°	2413.7	2437.4	2407.6	2130.9	1828.2	1728.9	1810.7	1832.8	1961.2	2284.5	2560.5
35°	2665.9	2685.8	2653.7	2367.9	2211.9	2230.3	2378.6	2350.3	2299.1	2528.4	2831.8
37.5°	2942.6	2961.0	2899.1	2727.1	2779.1	2858.5	3095.5	2998.4	2833.3	2842.5	3126.1
40°	3196.4	3216.2	3119.2	3117.7	3224.7	3369.9	3655.7	3522.0	3297.3	3253.7	3402.0
42.5°	3459.3	3473.1	3385.2	3325.5	3568.6	3867.4	4170.1	3989.7	3604.5	3557.1	3747.4
45°	3834.6	3863.6	3706.9	3428.0	3878.1	4439.9	4861.8	4509.5	3813.9	3775.7	4276.4
47.5°	4386.4	4407.8	4088.3	3492.2	4166.3	5153.0	5726.3	5183.6	3998.1	3911.0	4999.4
50°	4842.7	4857.2	4439.2	3562.5	4472.8	5921.9	6711.5	5983.1	4205.3	4135.0	5674.3
52.5°	5179.0	5234.0	4900.0	3706.9	4875.6	6826.1	7802.2	6930.1	4528.6	4567.6	6233.8
55°	5248.6	5323.5	5214.9	3795.6	5230.2	7747.1	8809.5	7777.7	4851.1	4895.5	6421.8
57.5°	4612.7	4672.3	4762.5	3437.9	5221.8	8169.0	9394.2	8059.0	4704.4	4390.2	5717.9
60°	3455.5	3496.8	3660.3	2627.7	4802.2	7796.0	8938.7	7580.5	4113.6	3350.0	4356.6
62.5°	2049.1	2067.5	2274.6	1702.1	3985.9	6713.8	7413.1	6541.0	3250.6	2253.2	2668.2
65°	786.5	778.8	937.1	840.0	2931.2	5347.9	5513.8	4986.4	2230.3	1032.6	1017.3
67.5°	121.5	116.2	156.7	248.4	2114.1	3706.2	3638.2	3593.8	1397.2	240.8	210.2
70°	27.5	27.5	33.6	73.4	1291.7	2177.5	2330.4	2221.9	894.3	51.2	27.5
72.5°	13.0	13.0	16.1	31.3	467.8	897.3	1045.6	1029.5	290.4	16.8	9.9
75°	4.6	5.4	5.4	6.9	28.3	46.6	107.0	76.4	18.3	0.0	0.0
77.5°	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.8	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°	999.7	999.7	999.7	999.7	999.7	999.7	999.7	999.7	999.7	999.7	999.7
2.5°	1111.3	1106.0	1086.1	1059.3	1033.4	1010.4	986.7	958.5	937.8	914.1	906.5
5°	1235.1	1201.5	1147.2	1090.7	1038.7	994.4	951.6	905.7	872.1	838.5	827.0
7.5°	1339.8	1290.2	1202.3	1117.4	1046.4	983.7	921.8	859.1	810.2	770.4	758.2
10°	1433.9	1376.5	1258.8	1154.1	1064.7	992.1	917.2	838.5	775.0	727.6	716.2
12.5°	1514.9	1448.4	1307.0	1181.6	1072.3	989.0	916.4	853.7	796.4	742.2	727.6
15°	1582.9	1509.5	1347.5	1200.0	1060.9	950.8	887.4	877.4	872.9	813.2	785.0
17.5°	1649.4	1566.9	1380.4	1208.4	1028.8	883.6	837.7	882.8	930.9	892.0	856.0
20°	1718.9	1624.9	1414.0	1209.9	975.3	807.9	800.2	871.3	932.5	920.2	886.6
22.5°	1800.7	1697.5	1456.0	1209.2	908.0	743.7	772.7	849.2	898.8	898.1	871.3
25°	1919.2	1789.3	1512.6	1213.7	834.6	694.0	742.2	811.7	852.2	850.7	828.5
27.5°	2046.1	1898.6	1586.0	1225.2	772.0	665.0	706.2	760.5	795.7	794.1	775.0
30°	2224.2	2024.7	1656.3	1226.0	726.9	649.7	666.5	703.9	737.6	733.7	719.2
32.5°	2440.5	2166.8	1715.1	1182.4	698.6	635.1	625.2	644.3	670.3	665.0	661.1
35°	2701.9	2335.8	1765.6	1086.9	655.0	606.1	579.4	583.2	601.5	604.6	603.0
37.5°	2999.9	2536.8	1828.2	960.7	596.2	564.1	528.1	525.1	535.8	545.7	553.4
40°	3294.2	2763.0	1913.1	833.1	542.7	510.6	476.2	468.5	473.1	490.7	506.7
42.5°	3625.2	3025.2	2004.8	723.8	506.0	451.7	418.8	404.3	417.3	445.6	464.7
45°	4102.1	3392.8	2094.2	636.7	490.7	399.7	355.4	353.9	368.4	405.1	426.5
47.5°	4771.6	3868.2	2153.1	568.7	489.9	359.2	306.5	315.7	332.5	368.4	392.9
50°	5424.4	4463.6	2088.1	516.7	473.9	332.5	269.8	288.1	305.0	336.3	361.5
52.5°	5818.0	4783.9	1835.1	467.8	424.2	320.2	233.9	266.0	269.0	297.3	324.1
55°	5776.7	4576.7	1405.6	392.1	350.8	302.7	196.4	240.0	241.5	262.9	285.9
57.5°	5013.9	3929.4	965.3	318.0	263.7	249.9	162.0	202.5	217.1	230.1	246.9
60°	3736.7	2867.0	430.3	258.3	167.4	168.9	138.3	152.9	175.0	190.3	204.8
62.5°	2202.0	1649.4	175.0	155.2	92.5	106.2	111.6	111.6	125.3	136.8	146.0
65°	832.3	577.1	71.1	78.0	48.2	49.7	65.7	81.0	91.7	101.7	113.9
67.5°	146.0	100.9	36.7	29.0	28.3	25.2	33.6	52.7	58.9	66.5	71.8
70°	24.5	20.6	15.3	14.5	13.0	13.8	22.2	37.5	41.3	43.6	45.9
72.5°	6.9	6.1	4.6	3.8	3.1	3.8	13.8	29.0	30.6	32.1	34.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	5.4	20.6	22.2	22.9	25.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	6.1	7.6	6.1
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°	999.7	999.7	999.7	999.7	999.7	999.7	999.7	999.7	999.7	999.7	999.7
2.5°	901.9	886.6	878.2	873.6	873.6	867.5	860.6	858.3	868.3	868.3	885.1
5°	812.5	800.2	786.5	778.1	765.1	767.4	759.7	759.0	768.9	773.5	791.1
7.5°	750.6	735.3	726.9	721.5	714.6	711.6	704.7	702.4	707.8	715.4	732.2
10°	709.3	707.0	706.2	710.1	710.1	706.2	700.1	696.3	697.8	712.3	731.5
12.5°	720.0	724.6	726.1	732.2	735.3	732.2	727.6	729.2	739.1	765.8	794.1
15°	766.6	762.8	761.3	764.3	766.6	763.6	762.0	773.5	807.9	846.1	878.2
17.5°	816.3	791.8	781.1	781.1	782.7	781.1	782.7	804.8	860.6	898.8	922.5
20°	841.5	796.4	779.6	775.8	778.8	779.6	785.0	810.2	871.3	898.1	903.4
22.5°	833.9	777.3	758.2	755.1	758.2	761.3	766.6	788.0	845.3	859.1	856.8
25°	795.7	739.9	724.6	724.6	731.5	730.7	733.0	748.3	795.7	804.1	800.2
27.5°	747.5	694.8	681.8	689.4	695.5	694.0	694.8	707.8	742.9	745.2	741.4
30°	698.6	652.7	640.5	649.7	658.1	656.5	657.3	670.3	692.5	690.2	684.8
32.5°	648.9	615.3	606.1	611.5	624.4	622.9	626.0	639.7	648.1	638.2	632.1
35°	603.0	585.5	578.6	581.6	591.6	593.9	599.2	608.4	608.4	596.2	585.5
37.5°	560.2	558.0	553.4	549.5	558.7	565.6	573.2	583.9	568.7	551.1	541.1
40°	520.5	530.4	524.3	514.4	519.7	529.7	545.0	553.4	535.0	517.4	500.6
42.5°	483.8	500.6	498.3	486.1	490.7	499.9	517.4	524.3	502.9	483.0	467.0
45°	448.7	472.3	473.9	458.6	463.2	472.3	493.0	495.3	467.8	446.4	434.9
47.5°	418.1	444.1	444.8	433.4	434.9	447.9	467.0	467.8	436.4	416.6	402.0
50°	389.0	418.8	421.1	411.2	412.7	428.0	444.1	441.0	407.4	386.7	373.8
52.5°	353.9	394.4	399.7	395.2	401.3	413.5	423.4	412.7	373.8	353.1	341.6
55°	315.7	368.4	379.9	376.8	383.7	393.6	395.9	389.0	340.1	319.5	308.8
57.5°	271.3	303.4	323.3	317.2	322.5	332.5	339.4	334.0	297.3	281.3	272.1
60°	224.7	246.1	250.7	240.8	236.2	253.8	269.8	262.9	231.6	221.7	211.0
62.5°	164.3	188.8	191.8	178.9	173.5	192.6	206.4	199.5	165.1	154.4	146.0
65°	131.5	154.4	160.5	148.3	145.2	159.7	168.1	151.3	126.9	115.4	106.2
67.5°	86.4	104.7	120.8	120.0	113.9	118.5	112.4	98.6	81.0	74.9	68.8
70°	53.5	64.2	74.1	78.0	77.2	75.7	67.3	57.3	52.0	49.7	46.6
72.5°	41.3	52.0	59.6	61.9	62.7	60.4	53.5	44.3	39.0	35.9	33.6
75°	30.6	39.0	45.1	48.2	49.7	48.2	41.3	35.2	29.8	27.5	25.2
77.5°	10.7	13.0	16.1	17.6	16.8	16.1	14.5	14.5	11.5	10.7	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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	999.7	999.7	999.7	999.7	999.7	999.7	999.7	999.7	999.7	999.7
2.5°	904.2	917.9	943.2	966.1	990.6	1015.8	1043.3	1071.6	1084.6	1083.0
5°	817.8	847.6	888.9	934.0	984.4	1038.7	1099.1	1161.0	1187.7	1199.2
7.5°	763.6	805.6	859.9	917.2	983.7	1060.9	1151.8	1248.9	1287.9	1300.9
10°	770.4	819.3	864.4	920.2	991.3	1091.4	1204.6	1320.0	1365.8	1380.4
12.5°	826.2	836.9	849.2	895.0	984.4	1114.4	1252.7	1390.3	1443.0	1457.6
15°	876.7	827.0	804.1	846.1	960.0	1130.4	1301.6	1466.0	1524.0	1540.9
17.5°	879.0	804.1	752.9	785.7	920.2	1137.3	1349.8	1543.2	1606.6	1622.6
20°	850.7	778.8	713.1	713.9	866.0	1135.8	1389.5	1612.7	1683.8	1698.3
22.5°	809.4	749.0	681.0	657.3	807.9	1132.7	1433.1	1686.8	1764.0	1777.8
25°	763.6	710.8	650.4	614.5	749.8	1135.8	1494.2	1783.9	1868.8	1881.7
27.5°	713.9	668.8	626.7	597.7	700.9	1147.2	1567.6	1907.7	2008.6	2022.4
30°	661.9	628.3	611.5	593.9	670.3	1150.3	1647.1	2052.2	2179.8	2198.9
32.5°	610.7	592.3	593.1	596.2	641.3	1128.9	1719.7	2212.7	2383.1	2413.7
35°	563.3	558.0	573.2	588.5	599.2	1073.9	1783.2	2402.2	2634.6	2665.9
37.5°	522.8	527.4	546.5	561.8	553.4	995.9	1867.2	2639.2	2915.9	2942.6
40°	483.8	495.3	517.4	524.3	518.2	905.0	1968.1	2867.7	3159.7	3196.4
42.5°	447.9	456.3	487.6	489.2	508.3	812.5	2065.2	3113.8	3440.2	3459.3
45°	418.8	417.3	449.4	459.4	521.3	710.1	2160.0	3441.7	3807.1	3834.6
47.5°	390.6	389.0	396.7	441.8	526.6	615.3	2254.0	3921.7	4339.0	4386.4
50°	363.8	366.1	342.4	433.4	497.6	542.7	2296.8	4365.8	4822.8	4842.7
52.5°	340.1	331.7	290.4	405.9	435.7	473.9	2175.2	4567.6	5122.5	5179.0
55°	306.5	259.9	239.2	329.4	343.9	413.5	1781.6	4450.6	5148.4	5248.6
57.5°	262.2	204.1	203.3	243.1	243.1	383.7	1141.1	3802.5	4436.9	4612.7
60°	201.8	158.2	168.1	168.9	155.9	279.7	640.5	2754.6	3280.4	3455.5
62.5°	143.7	120.8	126.9	100.9	89.4	139.9	307.3	1586.0	2024.7	2049.1
65°	96.3	81.8	66.5	55.8	55.0	59.6	126.9	573.2	697.1	786.5
67.5°	63.4	49.7	35.2	35.2	39.7	39.7	48.2	94.8	133.0	121.5
70°	41.3	34.4	22.2	21.4	26.0	26.0	24.5	26.0	27.5	27.5
72.5°	30.6	26.0	13.0	11.5	14.5	15.3	13.8	13.0	13.0	13.0
75°	22.9	18.3	7.6	5.4	6.9	9.2	7.6	5.4	5.4	4.6
77.5°	9.2	6.9	3.1	2.3	3.8	5.4	4.6	2.3	1.5	1.5
80°	0.8	1.5	1.5	1.5	2.3	3.1	3.8	1.5	0.8	0.8
82.5°	0.0	0.8	0.8	0.8	1.5	2.3	3.1	1.5	0.8	0.8
85°	0.0	0.0	0.0	0.0	1.5	2.3	1.5	0.8	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.8	2.3	1.5	0.8	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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