

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: P631831

Luminaire Tested: GWS-SA2B-740-U-SLR-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631831
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-SA2B-740-U-SLR-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6534.4 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

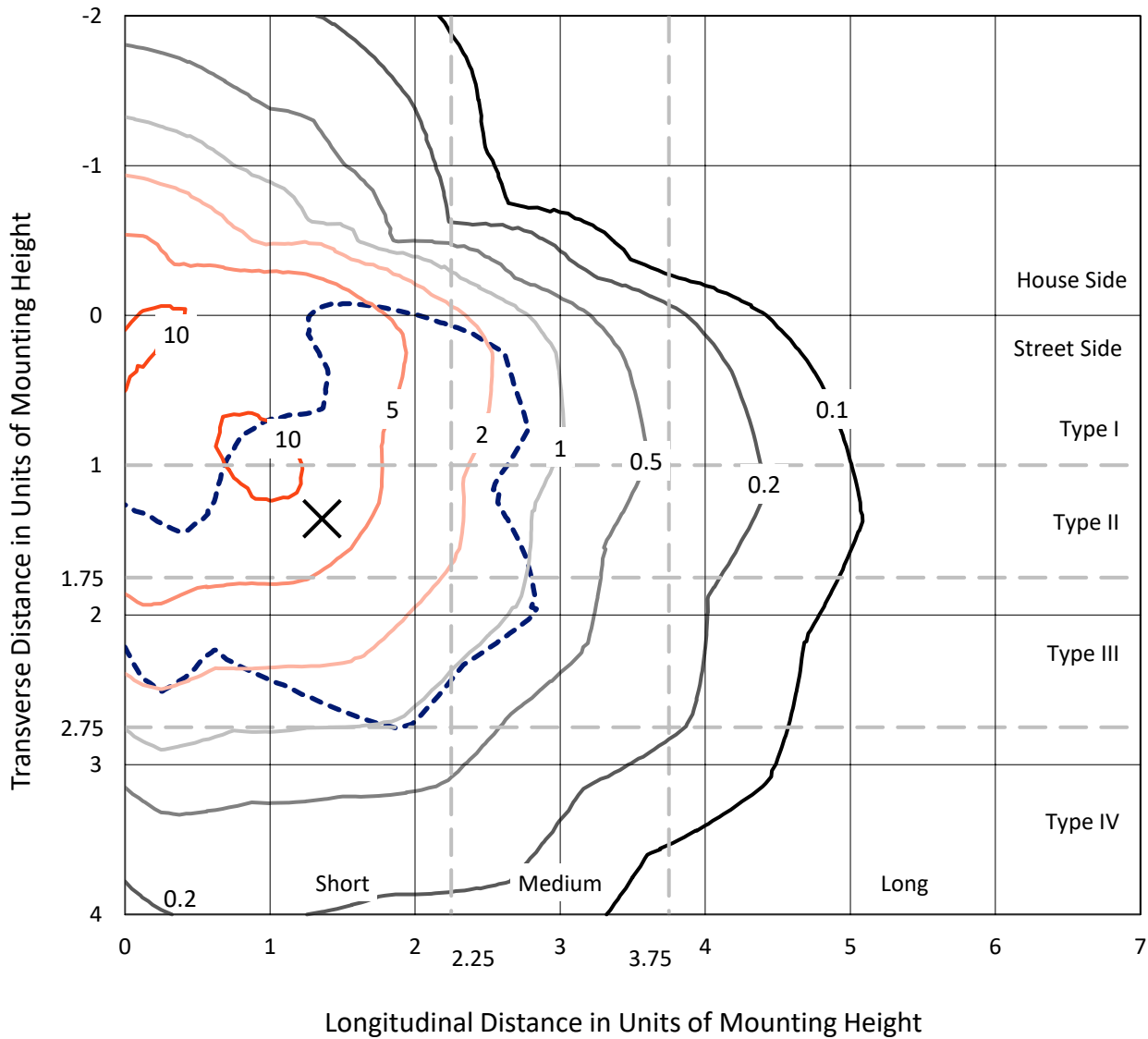
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

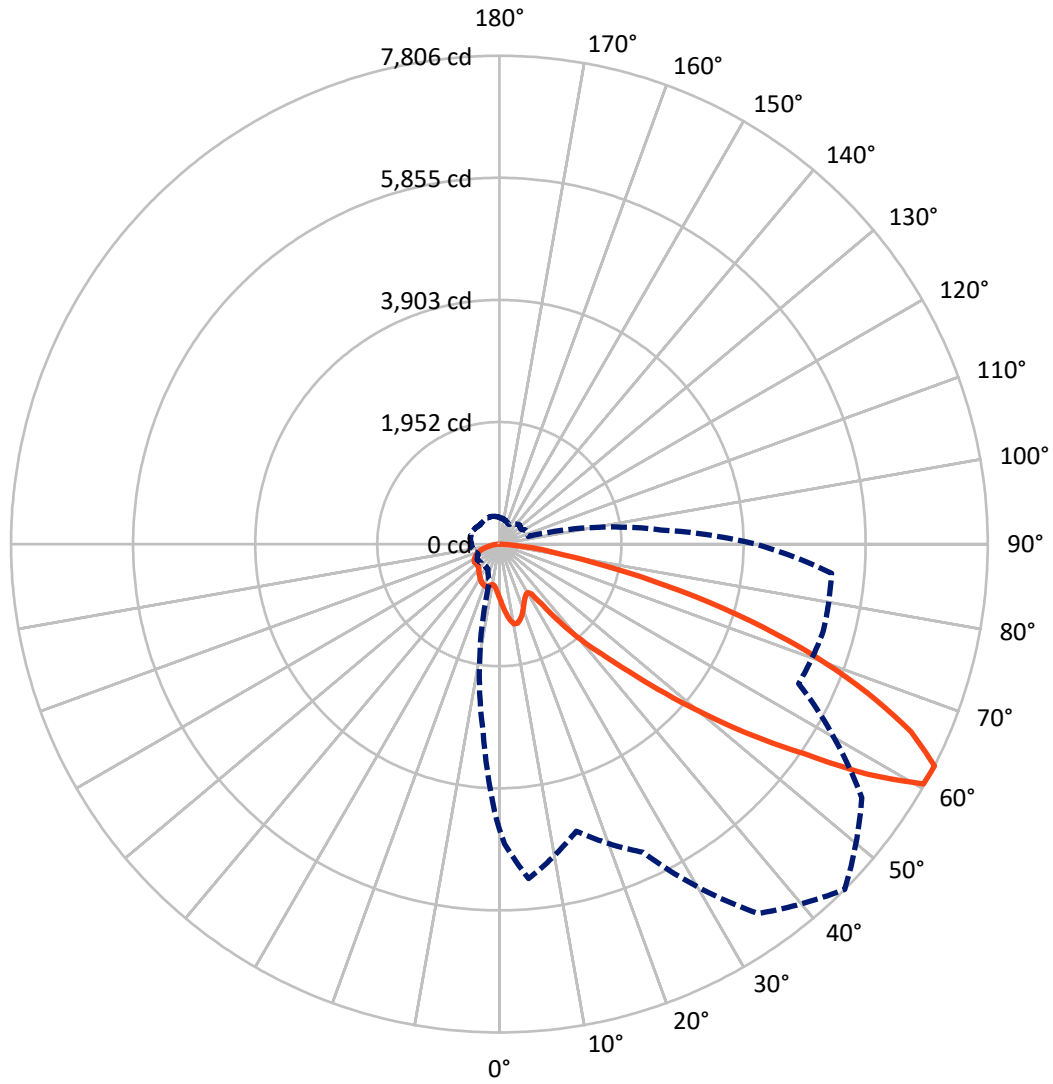
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.4 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	1559.2	0.0	1559.2
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	4975.2	0.0	4975.2
	% Fixture	76.1	0.0	76.1
Total	Lumens	6534.4	0.0	6534.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.7	1.3
10°-20°	265.5	4.1
20°-30°	412.4	6.3
30°-40°	559.9	8.6
40°-50°	887.4	13.6
50°-60°	1565.5	24.0
60°-70°	1741.8	26.7
70°-80°	883.4	13.5
80°-90°	133.8	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°	6534.4	100.0
0°-180°	6534.4	100.0

Coefficient of Utilization



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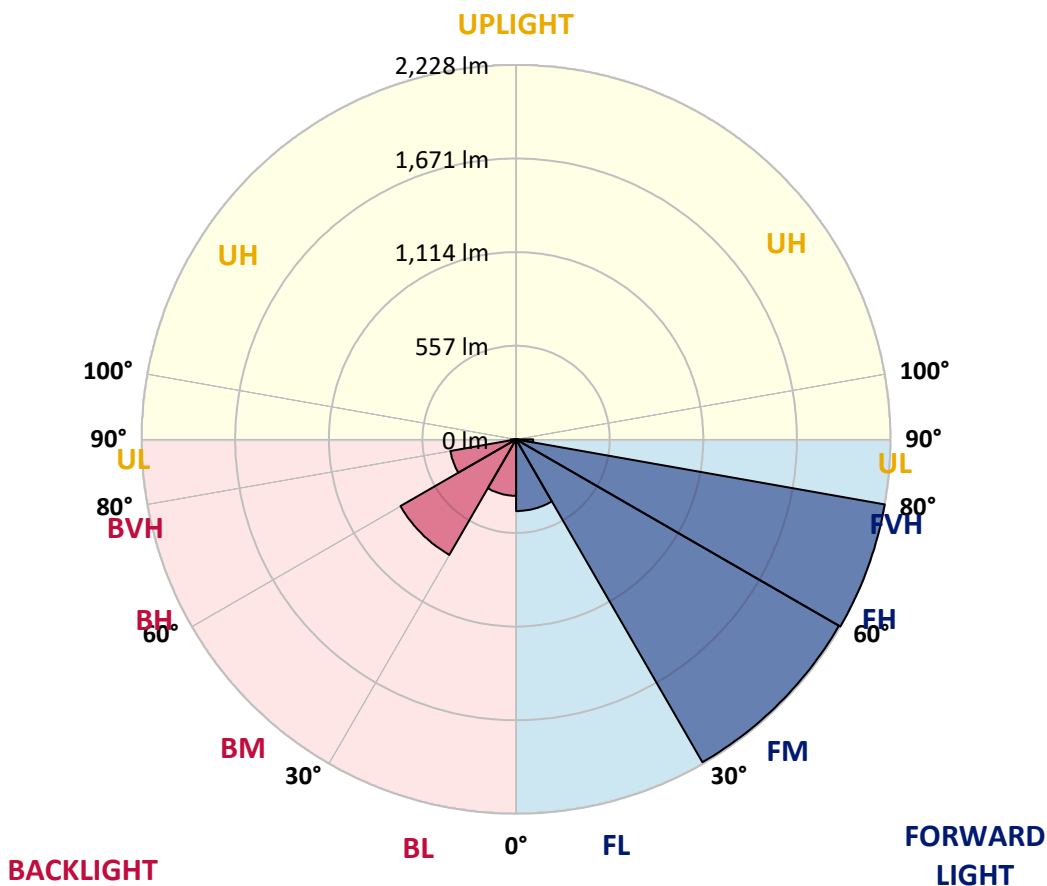
CATALOG NUMBER: GWS-SA2B-740-U-SLR-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	426.6	6.5			
FM (30°-60°)	2218.7	34.0			
FH (60°-80°)	2228.3	34.1			G2/5000
FVH (80°-90°)	101.5	1.6			G2/225
BL (0°-30°)	336.0	5.1	B1/500		
BM (30°-60°)	794.1	12.2	B1/1000		
BH (60°-80°)	396.9	6.1	B1/500		G1/500
BVH (80°-90°)	32.2	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°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	867.2	867.2	867.2	867.2	867.2	867.2	867.2	867.2	867.2	867.2	867.2
2.5°	932.1	931.6	941.0	955.3	968.7	974.6	984.5	983.5	975.6	965.2	961.7
5°	1005.3	1007.3	1023.6	1055.2	1090.4	1105.2	1111.6	1109.2	1094.8	1076.5	1044.4
7.5°	1071.6	1075.0	1100.3	1147.8	1191.3	1211.1	1226.9	1223.9	1203.2	1169.0	1121.5
10°	1120.1	1124.0	1154.2	1210.1	1258.6	1275.9	1296.2	1297.2	1278.9	1232.8	1184.4
12.5°	1168.5	1172.5	1200.7	1251.6	1283.3	1283.8	1295.7	1302.1	1303.1	1281.8	1233.3
15°	1219.0	1222.5	1248.2	1276.9	1275.4	1247.7	1247.7	1260.1	1287.3	1302.6	1269.0
17.5°	1262.0	1266.5	1286.3	1276.9	1232.8	1182.9	1176.9	1192.8	1240.3	1299.1	1295.7
20°	1297.7	1301.1	1312.0	1249.7	1169.5	1104.2	1092.8	1111.1	1175.5	1277.9	1316.0
22.5°	1331.8	1333.8	1327.8	1214.0	1101.3	1026.5	1012.7	1032.0	1101.3	1240.3	1333.3
25°	1372.4	1370.4	1342.2	1176.9	1038.9	965.2	950.9	972.6	1044.9	1190.3	1352.1
27.5°	1419.4	1411.9	1354.5	1136.9	990.9	919.7	909.8	933.0	1000.3	1144.3	1366.9
30°	1459.4	1445.1	1356.5	1101.3	966.2	900.4	894.5	916.2	978.6	1113.1	1385.7
32.5°	1504.0	1484.2	1367.9	1091.9	980.0	946.9	954.8	956.3	984.5	1104.2	1413.9
35°	1567.8	1542.0	1399.1	1119.1	1122.5	1178.4	1207.1	1168.5	1074.0	1124.0	1467.3
37.5°	1664.2	1631.6	1462.4	1236.8	1416.9	1542.0	1611.3	1523.3	1346.1	1198.7	1548.0
40°	1781.5	1739.9	1543.5	1454.5	1692.0	1892.3	2015.5	1886.4	1626.2	1385.2	1661.3
42.5°	1945.2	1901.7	1700.9	1668.2	1946.7	2245.1	2405.8	2213.4	1873.0	1626.2	1842.8
45°	2230.7	2188.7	1989.3	1882.4	2245.1	2679.4	2905.0	2637.4	2123.8	1868.1	2182.2
47.5°	2758.1	2708.6	2417.7	2119.9	2585.4	3243.4	3559.0	3169.2	2384.6	2145.1	2752.1
50°	3391.3	3343.8	2955.5	2400.9	2961.4	3846.5	4285.3	3794.0	2684.9	2482.0	3433.4
52.5°	4153.2	4144.3	3722.8	2756.1	3352.7	4489.6	5091.2	4486.1	3013.8	2935.7	4205.1
55°	4839.9	4926.9	4697.4	3297.8	3858.3	5297.5	5919.8	5241.1	3460.1	3685.7	5109.0
57.5°	5209.9	5443.9	5796.7	4403.0	4593.5	6263.2	6942.4	6162.8	4226.9	4934.4	5947.1
60°	4965.5	5230.7	5869.9	5235.2	5322.7	7036.9	7786.4	6937.5	4979.9	5801.1	5899.6
62.5°	4558.9	4796.8	5365.3	4749.3	5435.5	7207.1	7806.2	7072.6	5279.2	5361.3	5329.1
65°	4076.5	4316.5	4918.5	4145.8	5076.8	6802.9	7230.4	6675.3	4741.4	4843.8	4855.7
67.5°	3435.8	3657.5	4270.4	3686.2	4627.6	6209.8	6346.3	6109.3	4366.4	4529.7	4359.0
70°	2567.1	2767.0	3308.2	2995.5	3900.9	5437.0	5326.7	5361.8	3945.4	4107.7	3641.2
72.5°	1754.3	1904.7	2368.7	2353.9	2987.1	4352.6	4198.7	4531.7	3295.3	3510.5	2775.9
75°	1226.9	1344.2	1712.2	1859.7	2257.9	3226.1	2990.1	3391.8	2573.5	2880.8	2025.4
77.5°	753.0	830.6	1081.5	1377.8	1452.5	2207.9	1857.2	2552.3	1807.2	2101.1	1351.1
80°	376.5	414.1	525.4	866.3	963.2	1301.1	1025.6	1481.7	1223.0	1301.1	747.5
82.5°	113.8	125.7	153.9	329.0	499.2	749.0	606.0	860.8	667.9	610.0	294.4
85°	30.2	34.1	42.5	97.5	175.1	268.6	204.8	417.1	320.1	225.1	110.8
87.5°	2.5	2.5	2.0	2.0	1.0	0.0	0.0	29.7	59.9	34.1	19.3
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°	867.2	867.2	867.2	867.2	867.2	867.2	867.2	867.2	867.2	867.2	867.2
2.5°	944.4	942.4	922.2	907.3	890.0	873.2	855.9	840.5	823.2	805.9	801.0
5°	1020.6	1006.8	963.7	927.6	892.0	860.8	833.6	805.4	782.7	760.4	752.0
7.5°	1087.9	1063.7	1001.3	946.4	896.9	858.3	818.3	777.2	745.1	713.4	705.5
10°	1148.7	1116.6	1037.9	968.7	913.8	869.7	822.7	767.8	721.3	682.7	672.3
12.5°	1193.8	1158.6	1069.6	989.9	927.6	878.1	831.6	783.1	734.2	684.2	672.8
15°	1229.4	1192.8	1095.8	1006.3	928.1	864.3	819.3	802.4	787.1	738.1	717.3
17.5°	1258.1	1219.5	1118.6	1016.2	914.7	822.2	783.1	807.9	847.0	816.3	777.2
20°	1284.3	1245.2	1135.9	1023.1	885.1	764.3	742.6	795.0	853.9	852.9	817.8
22.5°	1313.0	1274.9	1161.1	1027.0	843.5	705.5	718.3	776.2	824.2	838.6	816.8
25°	1349.6	1316.0	1196.2	1035.9	796.5	664.9	700.5	752.0	792.1	795.5	782.7
27.5°	1392.1	1366.9	1248.7	1056.7	751.0	644.1	679.7	717.8	754.5	755.9	740.6
30°	1438.7	1421.8	1297.2	1074.0	716.9	637.7	653.0	683.7	707.0	710.9	697.6
32.5°	1498.0	1483.2	1340.2	1062.7	696.6	636.2	628.3	644.1	663.4	663.4	653.0
35°	1579.6	1558.9	1385.7	1019.1	671.8	630.3	602.1	606.5	614.9	616.4	610.5
37.5°	1695.4	1661.3	1431.7	933.0	631.3	609.0	571.9	566.5	569.4	573.4	571.9
40°	1838.9	1783.0	1499.0	829.6	582.8	567.9	540.7	530.3	527.9	535.8	538.8
42.5°	2019.5	1933.9	1571.2	733.2	538.8	520.9	504.1	495.2	491.3	504.6	512.5
45°	2307.9	2166.9	1640.5	637.7	514.0	480.9	469.5	463.1	465.0	480.9	490.8
47.5°	2806.1	2522.6	1706.3	577.3	512.0	452.2	438.3	439.8	445.3	462.1	473.9
50°	3436.3	2999.0	1750.3	552.1	518.0	434.9	416.6	424.5	432.9	449.2	463.1
52.5°	4078.0	3442.8	1697.9	538.3	517.5	435.4	396.3	420.0	424.0	440.3	455.1
55°	4519.3	3492.2	1466.9	517.0	509.6	455.1	380.4	418.0	420.5	435.4	448.7
57.5°	4687.5	3323.1	1118.6	522.9	485.8	470.5	373.5	404.2	422.0	434.9	448.7
60°	4484.2	3004.0	679.7	538.3	447.7	469.5	378.0	379.0	409.6	431.4	445.3
62.5°	4100.8	2594.3	477.4	494.7	420.0	443.3	388.4	349.3	387.9	414.1	426.5
65°	3661.4	2112.5	364.1	426.0	406.7	402.7	391.8	323.1	358.2	383.9	394.8
67.5°	3203.8	1642.0	295.8	317.6	367.6	364.1	358.2	299.8	323.1	341.4	353.7
70°	2627.5	1148.7	249.8	238.5	315.1	326.5	313.2	270.6	278.0	296.8	306.7
72.5°	1922.0	715.9	205.3	196.9	253.3	285.5	278.5	238.5	241.9	259.7	267.6
75°	1382.3	409.6	164.7	162.3	193.4	244.4	230.5	205.3	209.3	222.6	228.1
77.5°	878.6	228.1	127.1	130.6	138.5	182.6	196.9	175.6	175.6	183.5	188.0
80°	470.5	130.6	93.0	94.5	97.0	139.5	155.3	136.0	136.0	130.6	136.0
82.5°	192.0	75.2	63.8	59.4	64.8	95.5	108.8	86.6	90.5	81.6	83.6
85°	63.3	37.6	31.7	31.2	30.7	42.1	52.4	43.0	51.5	32.7	34.1
87.5°	8.4	6.9	4.0	3.0	3.5	1.5	3.0	3.5	3.5	2.5	2.5
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°	867.2	867.2	867.2	867.2	867.2	867.2	867.2	867.2	867.2	867.2	867.2
2.5°	797.5	793.5	779.2	782.7	780.2	776.2	780.2	772.8	778.7	780.7	793.0
5°	745.5	736.1	722.3	715.4	713.9	709.9	710.4	707.0	707.9	716.4	730.2
7.5°	699.0	690.1	679.3	674.3	669.9	665.4	664.9	664.4	668.4	675.8	689.1
10°	665.4	660.5	656.0	658.0	656.0	654.0	650.6	650.6	657.0	670.3	686.7
12.5°	665.4	664.4	665.4	671.3	670.8	671.3	666.9	669.4	687.2	709.9	733.2
15°	701.0	693.1	693.1	696.1	695.1	695.1	695.1	705.5	746.0	781.2	805.9
17.5°	744.6	721.3	711.4	709.9	709.4	709.4	711.4	733.7	797.0	834.1	848.4
20°	774.7	730.7	714.4	707.9	708.4	709.4	715.4	746.0	815.8	834.6	831.1
22.5°	780.2	723.3	703.5	694.1	695.6	696.6	705.5	738.1	790.1	793.0	786.1
25°	754.9	702.5	681.2	673.8	675.8	675.3	683.2	707.0	744.1	743.1	739.1
27.5°	717.3	669.4	653.5	648.6	652.0	648.1	650.6	668.9	697.6	696.6	695.1
30°	678.8	637.2	622.9	620.4	624.8	618.9	619.4	634.7	654.5	653.5	653.0
32.5°	640.2	605.0	592.2	592.2	596.6	590.2	591.2	604.6	617.9	614.0	614.0
35°	603.6	578.8	568.4	566.5	569.9	565.5	567.4	579.8	584.8	579.3	575.9
37.5°	571.4	560.5	550.1	543.2	543.7	544.2	550.1	559.5	556.6	548.6	544.2
40°	541.7	541.7	531.8	519.0	517.5	520.9	530.8	541.2	532.8	523.9	518.5
42.5°	520.4	524.9	515.5	502.6	499.7	505.6	516.5	523.9	514.0	504.1	496.7
45°	500.7	511.5	505.1	490.8	486.8	493.7	507.6	510.6	497.2	487.8	482.4
47.5°	486.8	501.6	497.2	483.3	477.4	487.3	501.6	501.2	484.3	474.4	470.0
50°	476.9	495.7	495.2	483.3	476.9	489.3	502.1	495.7	477.4	467.0	462.6
52.5°	469.0	495.2	498.7	491.8	487.3	498.2	506.1	493.7	472.5	461.6	458.1
55°	465.5	497.2	499.7	493.2	489.3	499.2	506.1	497.7	472.5	462.6	459.6
57.5°	466.5	494.7	495.2	486.3	479.4	491.8	502.6	500.2	477.9	466.5	463.1
60°	460.6	481.4	482.4	468.5	460.6	475.4	494.7	493.2	475.4	463.6	457.1
62.5°	440.8	459.1	459.6	446.7	435.4	456.6	477.9	477.4	461.1	449.2	441.8
65°	407.7	426.9	431.9	419.5	410.6	433.4	455.6	454.6	438.3	427.4	420.0
67.5°	366.6	387.4	396.8	388.4	384.9	405.7	426.5	426.0	412.6	402.2	395.8
70°	316.6	333.9	349.8	349.8	347.3	371.0	393.3	391.3	379.0	371.0	366.1
72.5°	275.1	288.4	293.4	298.3	305.7	330.5	349.3	350.8	341.9	337.9	341.9
75°	234.0	242.4	246.9	242.9	255.8	281.5	306.2	308.7	299.3	292.9	294.4
77.5°	192.4	201.8	206.3	197.4	196.4	229.1	259.2	264.7	256.8	246.9	249.8
80°	139.0	151.4	158.8	152.9	150.9	165.2	206.8	212.7	205.3	197.4	201.8
82.5°	85.1	92.0	94.0	99.9	112.3	118.2	133.1	152.9	147.4	140.5	152.9
85°	33.6	40.1	44.5	50.5	58.9	69.8	82.1	98.0	89.1	86.1	101.4
87.5°	2.0	0.5	0.0	1.0	8.4	16.3	35.1	48.5	40.6	43.5	52.4
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°	867.2	867.2	867.2	867.2	867.2	867.2	867.2	867.2	867.2	867.2
2.5°	802.9	815.8	833.1	847.5	865.8	883.1	900.9	918.7	928.1	932.1
5°	746.0	769.8	797.5	828.2	863.8	901.4	939.5	978.6	1003.3	1005.3
7.5°	711.9	746.0	784.1	822.7	866.8	918.7	979.1	1039.4	1064.6	1071.6
10°	722.8	760.9	791.1	827.2	875.7	940.5	1011.7	1082.5	1111.6	1120.1
12.5°	766.3	773.7	783.1	816.3	875.7	959.3	1045.3	1129.5	1160.6	1168.5
15°	802.4	766.8	750.0	785.1	863.8	975.6	1081.0	1174.0	1211.6	1219.0
17.5°	805.4	744.1	707.5	739.1	843.0	987.0	1115.1	1223.4	1255.1	1262.0
20°	775.2	719.8	672.3	691.6	814.8	991.9	1139.8	1259.6	1290.7	1297.7
22.5°	741.1	700.0	648.6	647.6	780.7	997.4	1169.5	1293.7	1327.3	1331.8
25°	708.9	672.8	629.3	615.4	741.1	1007.7	1209.6	1345.2	1370.9	1372.4
27.5°	671.3	643.6	614.0	600.6	706.5	1027.5	1269.0	1406.5	1421.8	1419.4
30°	637.2	616.4	603.1	599.1	684.7	1042.4	1325.4	1466.9	1467.8	1459.4
32.5°	601.1	593.2	593.2	606.0	666.9	1038.9	1371.4	1525.7	1516.3	1504.0
35°	568.9	570.4	580.8	611.0	637.2	1004.3	1415.4	1599.4	1585.6	1567.8
37.5°	538.3	549.6	564.5	593.7	598.1	952.8	1466.9	1703.8	1686.5	1664.2
40°	512.0	529.4	546.7	561.0	556.6	879.6	1538.6	1826.5	1807.2	1781.5
42.5°	491.3	508.1	527.4	528.9	530.3	803.4	1614.8	1976.9	1973.4	1945.2
45°	477.9	488.8	507.1	504.6	528.9	719.3	1685.0	2206.5	2252.0	2230.7
47.5°	469.0	477.4	479.4	489.8	541.7	644.1	1775.6	2655.7	2782.3	2758.1
50°	464.0	472.5	450.2	490.8	543.7	595.6	1900.7	3219.7	3423.5	3391.3
52.5°	463.6	461.6	427.9	501.2	532.8	566.0	1966.0	3631.3	4083.4	4153.2
55°	464.5	439.8	416.6	504.1	511.0	555.1	1747.4	3829.2	4692.4	4839.9
57.5°	455.6	416.1	423.0	492.2	470.0	584.3	1291.7	3758.4	4935.8	5209.9
60°	438.8	393.3	434.9	460.1	427.9	534.3	889.5	3442.8	4683.5	4965.5
62.5°	414.6	377.5	433.4	418.5	412.6	437.3	611.5	3001.0	4283.3	4558.9
65°	387.4	364.6	410.1	378.5	381.9	336.4	432.4	2502.3	3805.4	4076.5
67.5°	358.2	356.7	376.0	336.9	322.6	266.7	315.1	2005.6	3191.5	3435.8
70°	325.0	335.9	341.9	299.3	261.7	209.3	234.0	1402.5	2354.4	2567.1
72.5°	291.9	292.9	301.3	260.2	195.9	167.7	175.6	849.4	1599.4	1754.3
75°	258.2	248.8	256.8	211.7	145.9	137.5	135.6	524.9	1104.7	1226.9
77.5°	222.1	211.7	201.4	159.3	117.2	106.4	103.9	294.4	677.8	753.0
80°	180.6	166.7	150.4	116.8	85.6	76.2	75.7	143.5	337.9	376.5
82.5°	140.5	114.3	109.8	72.7	52.9	46.5	49.5	54.9	101.9	113.8
85°	98.4	83.1	58.4	29.2	23.7	19.3	18.8	16.3	27.2	30.2
87.5°	54.9	36.1	18.8	3.5	4.0	4.5	3.5	2.5	2.5	2.5
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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