

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: P643211

Luminaire Tested: GWS-SA6E-740-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643211
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-40)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-740-U-SLL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27103.6 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

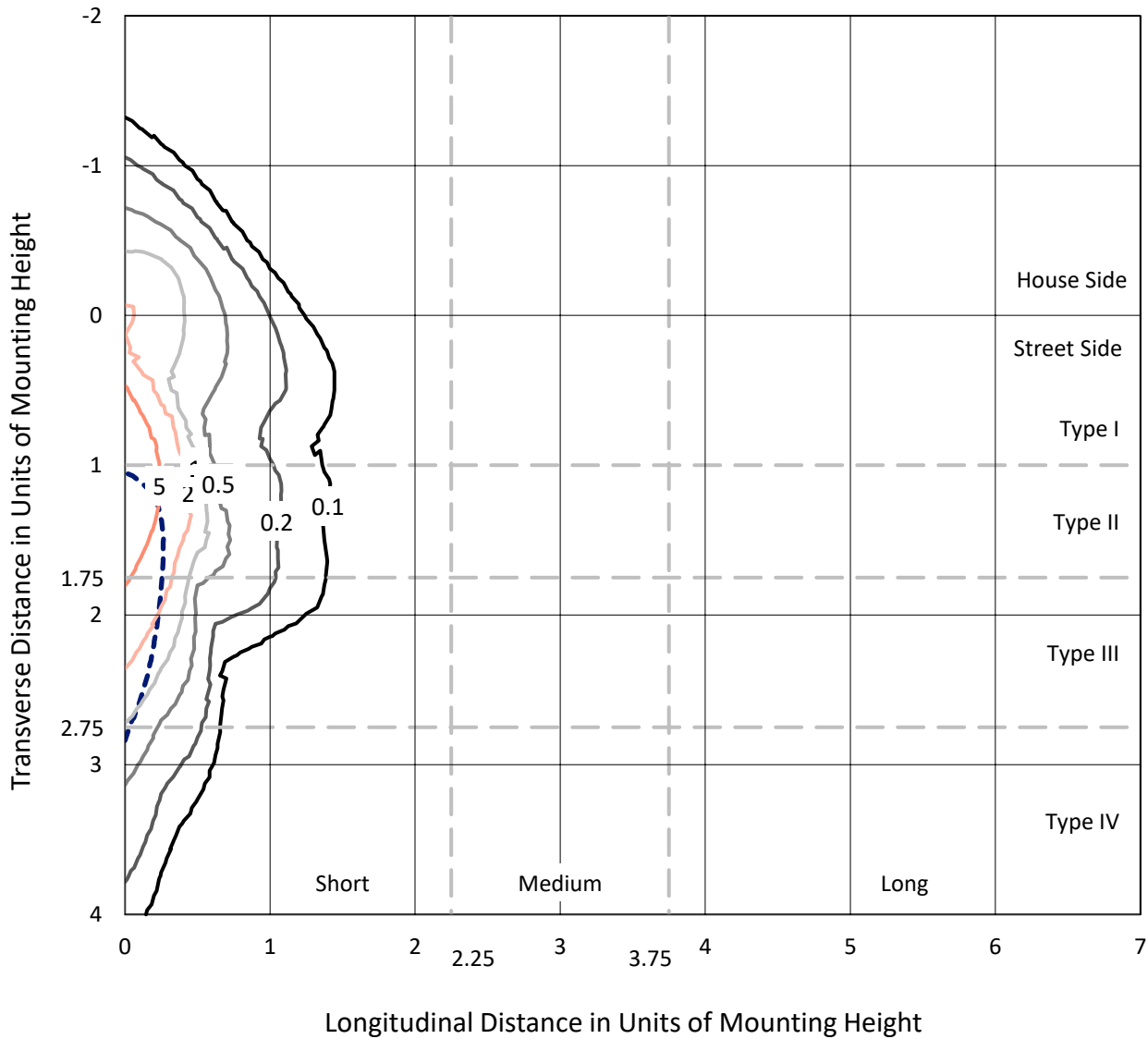
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

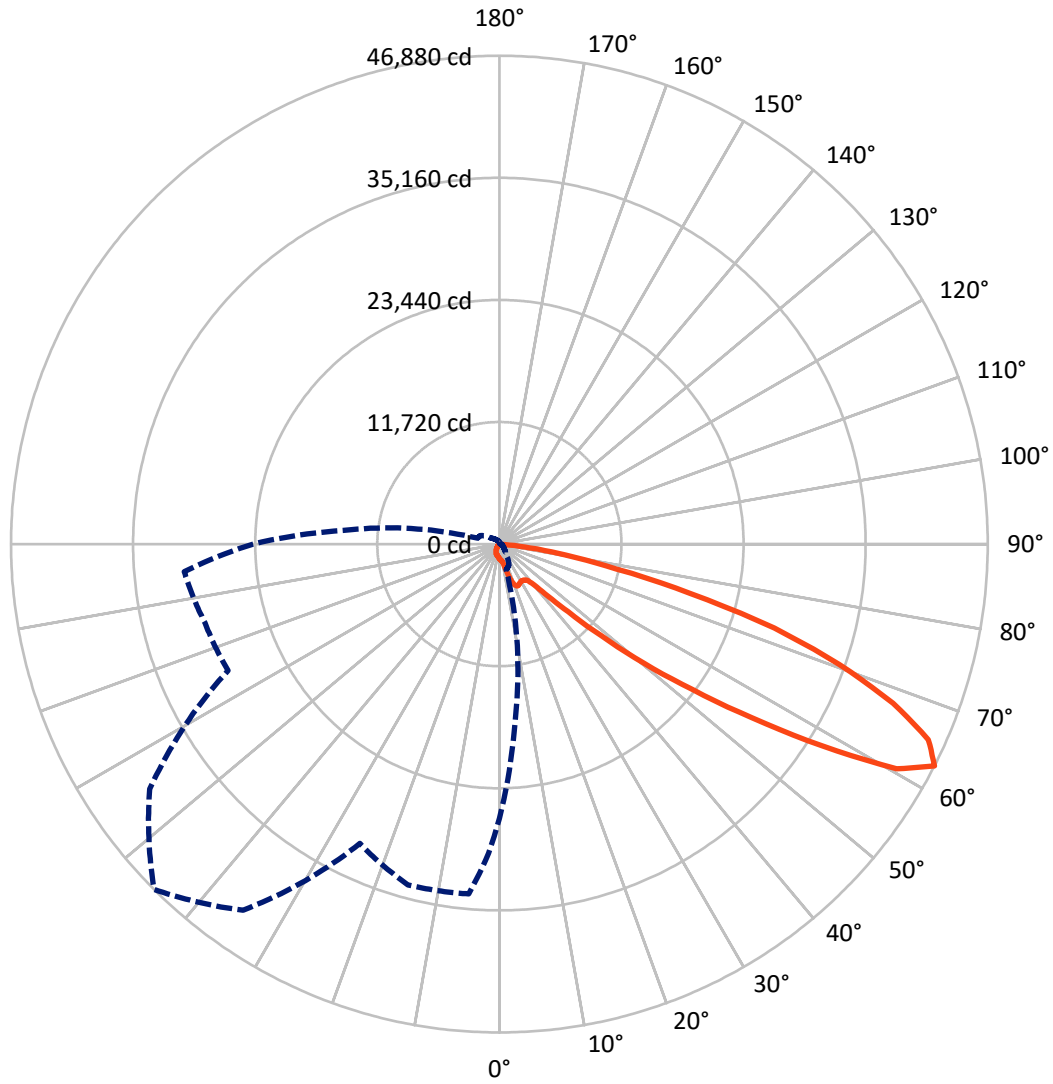
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	3149.1	0.0	3149.1
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	23954.5	0.0	23954.5
	% Fixture	88.4	0.0	88.4
Total	Lumens	27103.6	0.0	27103.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.4	0.4
10°-20°	416.0	1.5
20°-30°	939.9	3.5
30°-40°	1619.2	6.0
40°-50°	3054.4	11.3
50°-60°	6819.5	25.2
60°-70°	9121.0	33.7
70°-80°	4573.9	16.9
80°-90°	438.4	1.6
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°	27103.6	100.0
0°-180°	27103.6	100.0

Coefficient of Utilization



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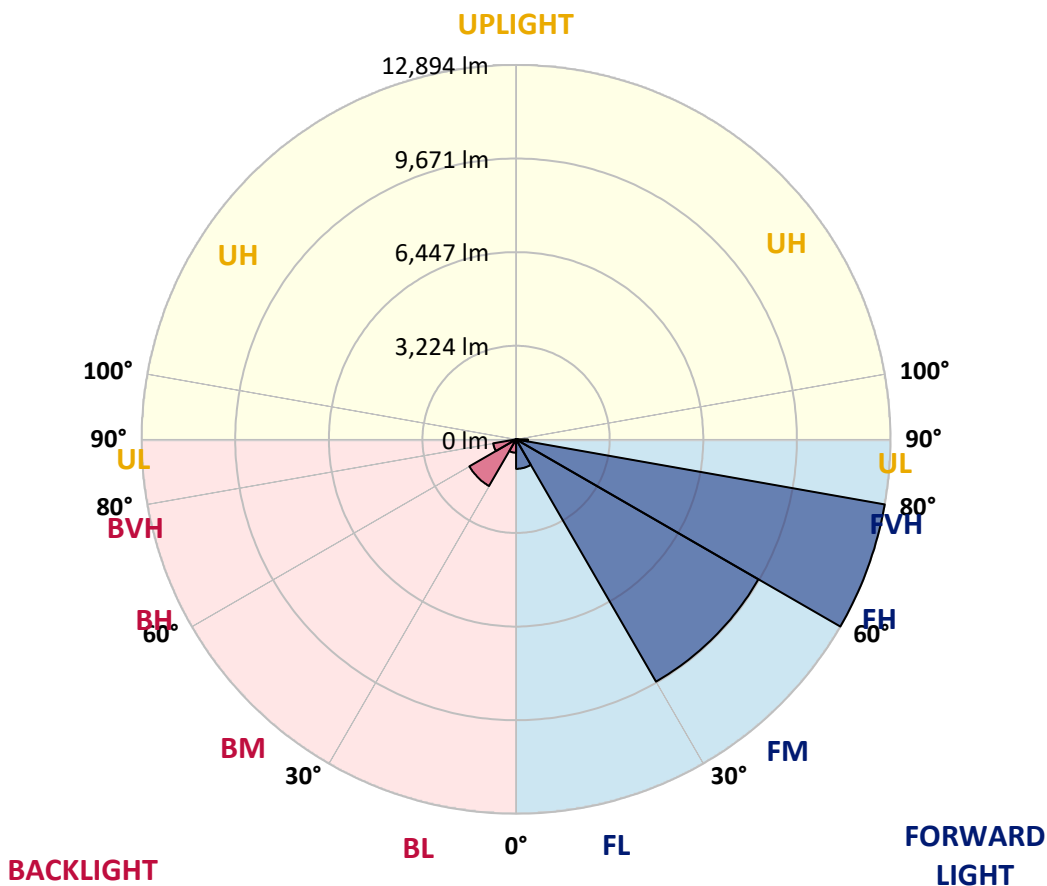
CATALOG NUMBER: GWS-SA6E-740-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1015.1	3.7			
FM (30°-60°)	9636.1	35.6			
FH (60°-80°)	12894.1	47.6			G5
FVH (80°-90°)	409.2	1.5			G3/500
BL (0°-30°)	462.2	1.7	B1/500		
BM (30°-60°)	1856.9	6.9	B2/2500		
BH (60°-80°)	800.8	3.0	B2/1000		G2/1000
BVH (80°-90°)	29.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1405.6	1405.6	1405.6	1405.6	1405.6	1405.6	1405.6	1405.6	1405.6	1405.6	1405.6
2.5°	1389.6	1386.4	1380.0	1360.7	1344.7	1335.0	1315.8	1315.8	1312.6	1306.1	1293.3
5°	1344.7	1331.8	1319.0	1283.7	1245.2	1222.7	1197.0	1193.8	1193.8	1187.4	1184.2
7.5°	1274.1	1261.2	1245.2	1187.4	1152.1	1129.6	1107.2	1104.0	1094.3	1094.3	1094.3
10°	1235.5	1216.3	1190.6	1126.4	1091.1	1071.9	1055.8	1046.2	1039.8	1030.2	1026.9
12.5°	1319.0	1283.7	1229.1	1113.6	1065.5	1039.8	1020.5	1014.1	994.9	982.0	972.4
15°	1578.9	1492.3	1383.2	1142.5	1055.8	1017.3	991.6	978.8	962.8	940.3	924.3
17.5°	2005.8	1880.6	1697.7	1235.5	1046.2	998.1	966.0	943.5	921.0	895.4	876.1
20°	2596.2	2410.1	2191.9	1405.6	1046.2	975.6	937.1	908.2	876.1	847.2	824.8
22.5°	3347.2	3161.1	2788.8	1694.5	1059.0	946.7	901.8	863.3	824.8	799.1	773.4
25°	4188.0	3924.9	3578.3	2044.3	1094.3	908.2	860.1	821.6	786.3	754.2	725.3
27.5°	5125.1	4839.5	4377.4	2541.7	1171.4	869.7	815.1	779.8	747.7	715.7	677.1
30°	5988.4	5818.3	5346.5	3138.6	1296.5	844.0	779.8	747.7	715.7	673.9	638.6
32.5°	7024.9	6723.3	6335.0	3819.0	1463.4	818.3	751.0	706.0	680.4	641.8	603.3
35°	8067.9	7811.2	7300.9	4656.6	1649.5	792.7	715.7	673.9	651.5	606.5	564.8
37.5°	9143.0	9085.3	8581.4	5584.0	1832.5	763.8	673.9	648.3	625.8	574.4	526.3
40°	10202.1	10096.2	9630.8	6643.1	1944.8	731.7	638.6	622.6	596.9	539.1	484.6
42.5°	11216.2	11135.9	10683.4	7657.2	1928.7	702.8	603.3	584.1	564.8	507.1	439.7
45°	12461.3	12329.8	11758.5	8408.1	1765.1	734.9	568.0	535.9	532.7	478.2	394.7
47.5°	14791.2	14358.0	13388.8	8985.8	1601.4	818.3	529.5	491.0	513.5	449.3	349.8
50°	18055.0	17544.7	16142.3	9435.1	1598.2	927.5	523.1	449.3	497.4	426.8	311.3
52.5°	21334.8	20436.2	18732.1	9675.8	1716.9	1007.7	580.9	407.6	478.2	404.4	282.4
55°	24476.6	22612.1	19816.8	8879.9	1810.0	1094.3	686.8	385.1	442.9	378.7	266.4
57.5°	27470.8	24361.1	20288.6	7024.9	2121.3	1129.6	751.0	394.7	391.5	346.6	253.5
60°	27881.6	24277.6	19335.5	4085.3	2339.5	1068.7	725.3	439.7	343.4	308.1	231.1
62.5°	26328.3	22663.4	17162.8	2548.1	2172.6	1046.2	645.1	500.6	311.3	272.8	202.2
65°	23969.5	20131.3	14309.8	1643.1	1646.3	1161.7	564.8	491.0	292.0	240.7	173.3
67.5°	20282.2	16848.3	11273.9	1100.8	930.7	991.6	494.2	337.0	285.6	205.4	134.8
70°	14804.1	11992.8	7339.5	734.9	555.2	792.7	414.0	240.7	269.6	170.1	96.3
72.5°	10821.4	8058.3	4098.2	481.4	314.5	462.1	304.9	173.3	208.6	125.2	67.4
75°	7788.7	5545.5	2339.5	308.1	208.6	253.5	199.0	118.7	134.8	99.5	61.0
77.5°	3748.4	2702.2	1062.2	170.1	141.2	128.4	105.9	73.8	83.4	89.9	54.6
80°	141.2	105.9	80.2	83.4	89.9	57.8	48.1	38.5	48.1	61.0	28.9
82.5°	0.0	0.0	0.0	9.6	12.8	16.0	19.3	16.0	19.3	22.5	3.2
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°	1405.6	1405.6	1405.6	1405.6	1405.6	1405.6	1405.6	1405.6	1405.6	1405.6	1405.6
2.5°	1302.9	1296.5	1302.9	1309.4	1315.8	1322.2	1312.6	1319.0	1325.4	1309.4	1315.8
5°	1200.2	1197.0	1216.3	1225.9	1238.8	1245.2	1238.8	1238.8	1235.5	1216.3	1216.3
7.5°	1110.4	1113.6	1129.6	1152.1	1168.2	1177.8	1171.4	1168.2	1158.5	1129.6	1129.6
10°	1043.0	1043.0	1068.7	1087.9	1110.4	1120.0	1113.6	1104.0	1094.3	1065.5	1062.2
12.5°	988.4	988.4	1007.7	1039.8	1065.5	1078.3	1075.1	1062.2	1046.2	1017.3	1014.1
15°	937.1	933.9	962.8	991.6	1026.9	1043.0	1036.6	1026.9	998.1	972.4	966.0
17.5°	885.7	882.5	908.2	946.7	985.2	1007.7	1004.5	982.0	956.3	924.3	917.8
20°	834.4	828.0	860.1	898.6	937.1	959.6	953.1	933.9	901.8	869.7	863.3
22.5°	783.0	779.8	802.3	834.4	869.7	888.9	885.7	869.7	837.6	808.7	808.7
25°	725.3	725.3	741.3	763.8	789.5	799.1	802.3	795.9	776.6	760.6	760.6
27.5°	677.1	667.5	673.9	680.4	693.2	709.2	709.2	715.7	718.9	712.4	715.7
30°	638.6	622.6	613.0	600.1	593.7	600.1	606.5	629.0	651.5	664.3	670.7
32.5°	593.7	574.4	548.8	513.5	491.0	484.6	503.8	545.6	587.3	616.2	632.2
35°	548.8	523.1	475.0	423.6	394.7	385.1	407.6	455.7	516.7	568.0	590.5
37.5°	503.8	468.5	401.2	340.2	308.1	301.7	324.1	375.5	446.1	516.7	545.6
40°	452.5	410.8	330.5	266.4	240.7	234.3	253.5	304.9	378.7	458.9	503.8
42.5°	401.2	349.8	266.4	211.8	186.1	186.1	211.8	250.3	317.7	404.4	458.9
45°	349.8	295.2	218.2	170.1	154.0	157.3	173.3	211.8	266.4	356.2	407.6
47.5°	301.7	253.5	179.7	141.2	128.4	131.6	150.8	182.9	227.9	308.1	362.6
50°	259.9	215.0	157.3	118.7	109.1	115.5	134.8	163.7	202.2	272.8	317.7
52.5°	234.3	192.6	144.4	102.7	96.3	102.7	121.9	147.6	182.9	240.7	285.6
55°	221.4	189.3	144.4	93.1	83.4	89.9	109.1	134.8	163.7	218.2	256.7
57.5°	218.2	195.8	154.0	83.4	70.6	77.0	96.3	121.9	150.8	199.0	231.1
60°	205.4	186.1	150.8	67.4	54.6	64.2	80.2	105.9	138.0	186.1	215.0
62.5°	179.7	163.7	131.6	54.6	41.7	48.1	67.4	93.1	125.2	170.1	202.2
65°	147.6	131.6	102.7	35.3	25.7	32.1	51.3	80.2	109.1	154.0	182.9
67.5°	109.1	93.1	70.6	22.5	12.8	22.5	41.7	67.4	99.5	138.0	166.9
70°	67.4	54.6	38.5	12.8	9.6	19.3	38.5	64.2	89.9	128.4	157.3
72.5°	38.5	25.7	16.0	6.4	9.6	19.3	38.5	64.2	86.6	121.9	147.6
75°	28.9	16.0	6.4	3.2	6.4	16.0	35.3	57.8	83.4	115.5	141.2
77.5°	19.3	9.6	3.2	0.0	3.2	12.8	32.1	54.6	77.0	109.1	134.8
80°	3.2	0.0	0.0	0.0	0.0	9.6	28.9	48.1	70.6	96.3	118.7
82.5°	0.0	0.0	0.0	0.0	0.0	3.2	22.5	41.7	61.0	80.2	96.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	12.8	32.1	48.1	61.0	67.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.0	32.1	38.5	44.9
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1405.6	1405.6	1405.6	1405.6	1405.6	1405.6	1405.6	1405.6	1405.6	1405.6	1405.6
2.5°	1312.6	1331.8	1331.8	1344.7	1360.7	1389.6	1405.6	1428.1	1444.1	1460.2	1466.6
5°	1213.1	1216.3	1219.5	1225.9	1245.2	1277.3	1306.1	1341.4	1383.2	1415.3	1434.5
7.5°	1129.6	1129.6	1129.6	1139.3	1158.5	1181.0	1209.9	1258.0	1306.1	1344.7	1376.7
10°	1059.0	1068.7	1071.9	1087.9	1110.4	1139.3	1171.4	1213.1	1267.6	1319.0	1376.7
12.5°	1014.1	1023.7	1039.8	1055.8	1078.3	1110.4	1145.7	1200.2	1312.6	1418.5	1540.4
15°	972.4	985.2	1004.5	1026.9	1052.6	1087.9	1126.4	1238.8	1501.9	1700.9	1893.4
17.5°	927.5	946.7	972.4	994.9	1026.9	1065.5	1113.6	1331.8	1848.5	2179.0	2506.4
20°	869.7	895.4	924.3	959.6	998.1	1043.0	1113.6	1524.4	2349.1	2824.1	3257.3
22.5°	815.1	840.8	876.1	921.0	966.0	1010.9	1129.6	1816.4	2994.2	3594.3	4143.1
25°	770.2	802.3	837.6	876.1	927.5	978.8	1168.2	2227.2	3770.8	4544.2	4932.5
27.5°	728.5	767.0	802.3	834.4	879.3	937.1	1254.8	2776.0	4688.6	5474.9	5779.8
30°	686.8	731.7	767.0	799.1	844.0	905.0	1386.4	3475.6	5709.2	6473.0	6505.1
32.5°	651.5	693.2	734.9	767.0	808.7	879.3	1569.3	4293.9	6755.4	7493.5	7191.8
35°	613.0	661.1	699.6	734.9	779.8	856.9	1781.1	5176.4	7811.2	8430.6	7875.4
37.5°	574.4	629.0	677.1	702.8	747.7	834.4	1935.2	6097.5	8889.5	9345.2	8475.5
40°	539.1	600.1	654.7	680.4	702.8	805.5	1957.6	7041.0	9983.8	10247.0	9040.3
42.5°	500.6	568.0	616.2	651.5	670.7	786.3	1822.8	7836.9	10901.7	11145.6	9778.4
45°	458.9	539.1	577.7	603.3	641.8	799.1	1649.5	8453.0	11951.1	12371.5	10994.7
47.5°	417.2	507.1	539.1	558.4	609.7	876.1	1585.3	8863.8	13680.8	14553.7	13045.4
50°	378.7	478.2	513.5	510.3	603.3	975.6	1655.9	9175.1	16280.3	17307.2	15856.7
52.5°	337.0	446.1	487.8	475.0	651.5	1052.6	1797.2	9422.2	18279.6	20535.7	19633.9
55°	301.7	410.8	449.3	446.1	741.3	1110.4	1906.3	8119.3	19107.6	23536.3	23889.3
57.5°	276.0	372.3	404.4	458.9	799.1	1110.4	2204.7	5763.7	19123.7	25744.2	29537.5
60°	253.5	337.0	359.4	503.8	776.6	1052.6	2182.3	3530.1	17625.0	25593.4	32541.3
62.5°	234.3	304.9	333.8	516.7	686.8	1043.0	1970.5	2188.7	15031.9	23645.4	30362.3
65°	218.2	279.2	320.9	475.0	622.6	1116.8	1328.6	1572.5	12191.8	21424.7	27862.3
67.5°	202.2	256.7	340.2	388.3	564.8	998.1	959.6	1116.8	9569.8	18988.9	25567.7
70°	189.3	243.9	359.4	317.7	494.2	779.8	680.4	847.2	7326.6	15843.8	22336.1
72.5°	179.7	227.9	301.7	250.3	401.2	603.3	475.0	616.2	4788.1	12368.3	18209.0
75°	170.1	208.6	221.4	202.2	298.5	394.7	359.4	414.0	2853.0	9040.3	13815.6
77.5°	166.9	195.8	179.7	163.7	202.2	234.3	272.8	279.2	1392.8	4521.8	7240.0
80°	147.6	176.5	154.0	134.8	138.0	154.0	202.2	186.1	317.7	1148.9	1931.9
82.5°	115.5	138.0	128.4	112.3	112.3	112.3	134.8	125.2	102.7	516.7	872.9
85°	80.2	96.3	96.3	89.9	86.6	86.6	83.4	80.2	28.9	32.1	48.1
87.5°	54.6	67.4	70.6	67.4	57.8	51.3	44.9	38.5	12.8	0.0	6.4
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°	358°	360°
0°	1405.6	1405.6	1405.6	1405.6	1405.6	1405.6	1405.6	1405.6	1405.6	1405.6
2.5°	1489.1	1498.7	1498.7	1485.9	1476.2	1450.6	1424.9	1399.2	1392.8	1389.6
5°	1489.1	1527.6	1546.8	1543.6	1521.2	1479.4	1424.9	1367.1	1351.1	1344.7
7.5°	1466.6	1540.4	1598.2	1607.8	1566.1	1492.3	1392.8	1306.1	1283.7	1274.1
10°	1518.0	1662.4	1777.9	1793.9	1745.8	1601.4	1440.9	1293.3	1258.0	1235.5
12.5°	1793.9	2031.4	2172.6	2240.0	2147.0	1964.0	1697.7	1434.5	1354.3	1319.0
15°	2352.3	2689.3	2958.9	2958.9	2872.2	2548.1	2211.1	1784.3	1675.2	1578.9
17.5°	3068.0	3491.6	3729.1	3703.4	3571.8	3344.0	2939.6	2326.7	2105.2	2005.8
20°	3883.1	4136.7	4191.2	4175.2	4117.4	3985.8	3706.6	3048.7	2750.3	2596.2
22.5°	4589.2	4521.8	4441.5	4377.4	4361.3	4399.8	4361.3	3854.3	3620.0	3347.2
25°	5067.3	4685.4	4444.7	4329.2	4383.8	4605.2	4845.9	4656.6	4470.4	4188.0
27.5°	5327.3	4666.2	4319.6	4200.8	4293.9	4608.4	5131.5	5452.4	5259.9	5125.1
30°	5468.5	4650.1	4239.4	4123.8	4265.0	4659.8	5330.5	6197.0	6203.4	5988.4
32.5°	5670.7	4752.8	4255.4	4149.5	4338.8	4813.8	5580.8	6954.3	7140.5	7024.9
35°	5898.5	4910.1	4329.2	4232.9	4467.2	5019.2	5860.0	7718.1	8106.5	8067.9
37.5°	6113.5	5086.6	4502.5	4409.4	4663.0	5195.7	6129.6	8469.1	9008.2	9143.0
40°	6338.2	5333.7	5035.2	5125.1	5266.3	5474.9	6370.3	9120.6	9999.9	10202.1
42.5°	6867.7	6190.6	6646.3	6816.4	6835.6	6405.6	6896.6	9955.0	10975.5	11216.2
45°	8048.7	7714.9	9021.1	9261.8	9136.6	7833.7	8164.2	11158.4	12339.4	12461.3
47.5°	9541.0	9695.0	12272.0	13103.2	12352.2	9518.5	9701.4	13690.5	14836.2	14791.2
50°	11280.4	12008.8	15962.6	17923.4	16126.3	11707.2	11472.9	16803.4	18193.0	18055.0
52.5°	13337.5	14698.2	20397.7	23183.3	21482.4	14168.6	14072.4	20927.2	21774.5	21334.8
55°	15927.3	17294.4	25500.3	29393.1	26973.4	17172.5	17503.0	25708.9	25872.6	24476.6
57.5°	19791.2	20680.1	31514.4	36514.3	32705.0	21254.6	23651.8	32072.8	30115.2	27470.8
60°	26806.5	25035.0	37326.3	43799.2	38802.5	26995.8	31761.5	35843.6	31527.2	27881.6
62.5°	29248.7	28732.0	40965.5	46880.1	42903.9	31710.2	33869.9	33706.3	29698.0	26328.3
65°	25548.5	27811.0	40314.0	45253.0	42377.5	30933.5	30394.4	31347.5	27637.7	23969.5
67.5°	23600.5	25648.0	37846.2	40763.3	39460.4	28298.8	27092.1	26832.2	23202.5	20282.2
70°	21636.5	23664.7	34267.9	34630.5	34024.0	24004.9	22419.5	20676.9	17342.5	14804.1
72.5°	19274.5	20391.3	29303.2	27583.1	26896.3	18854.1	18520.3	15571.1	13000.5	10821.4
75°	16809.8	16485.7	22846.3	18931.1	19444.6	14669.3	15641.7	11434.4	9524.9	7788.7
77.5°	12227.1	11986.4	15301.5	11498.6	12734.1	9608.4	8632.8	4563.5	4345.3	3748.4
80°	6822.8	8225.2	8263.7	6444.1	8039.1	6264.4	2159.8	150.8	96.3	141.2
82.5°	3170.7	3536.5	4480.0	2987.8	4586.0	3103.3	446.1	0.0	0.0	0.0
85°	1026.9	1501.9	1258.0	439.7	1110.4	1049.4	73.8	0.0	0.0	0.0
87.5°	61.0	125.2	32.1	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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