

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: P631329

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631329
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-38)
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-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4517.6 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

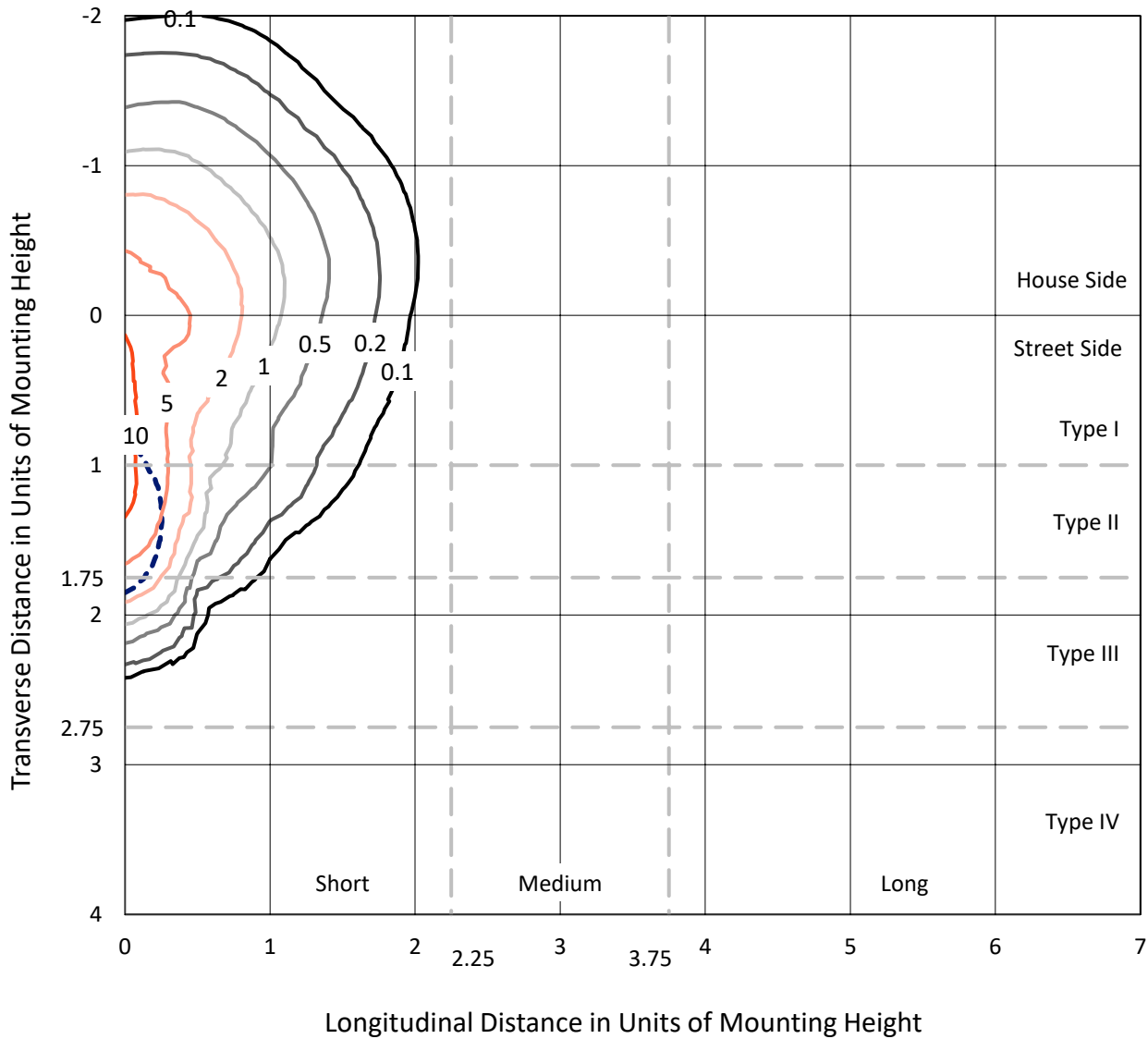
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

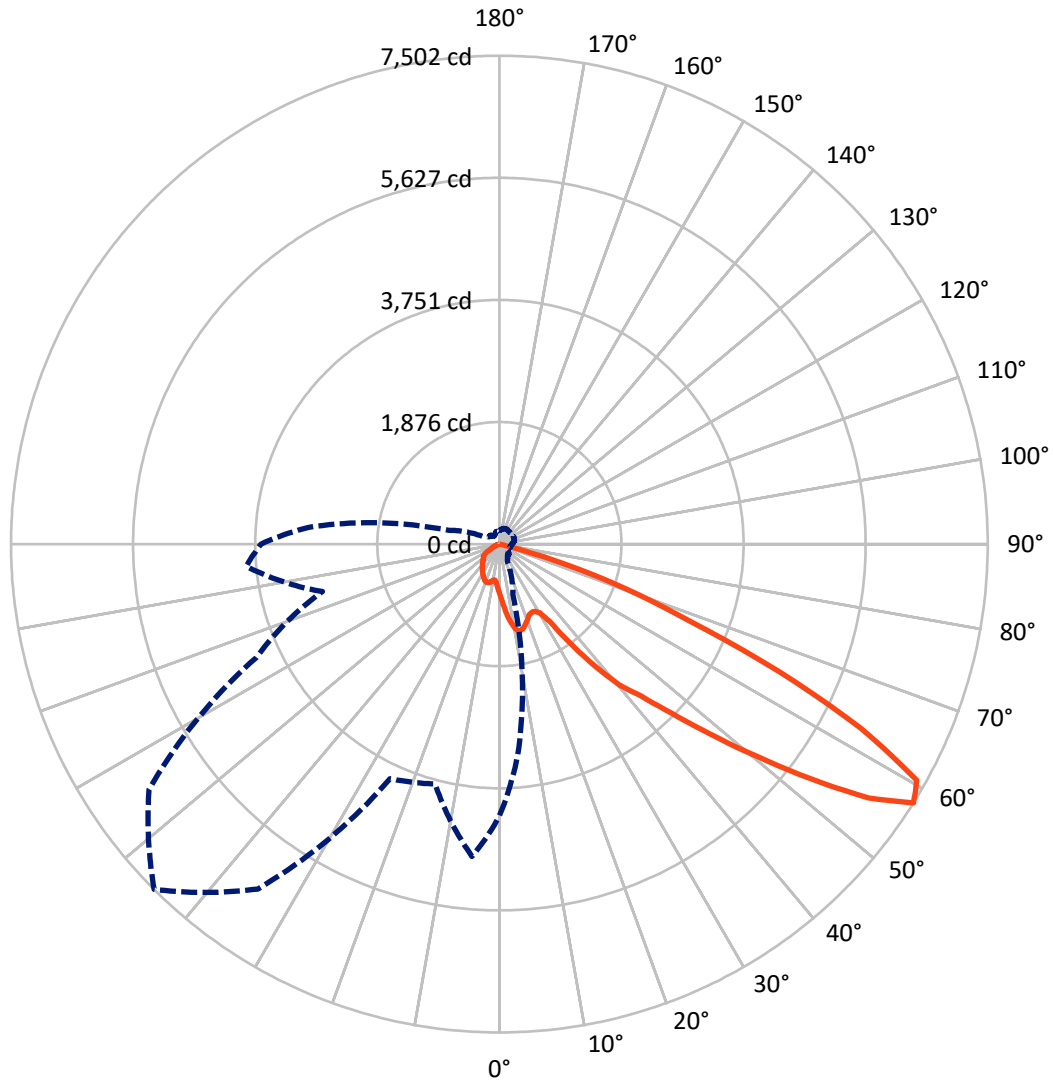
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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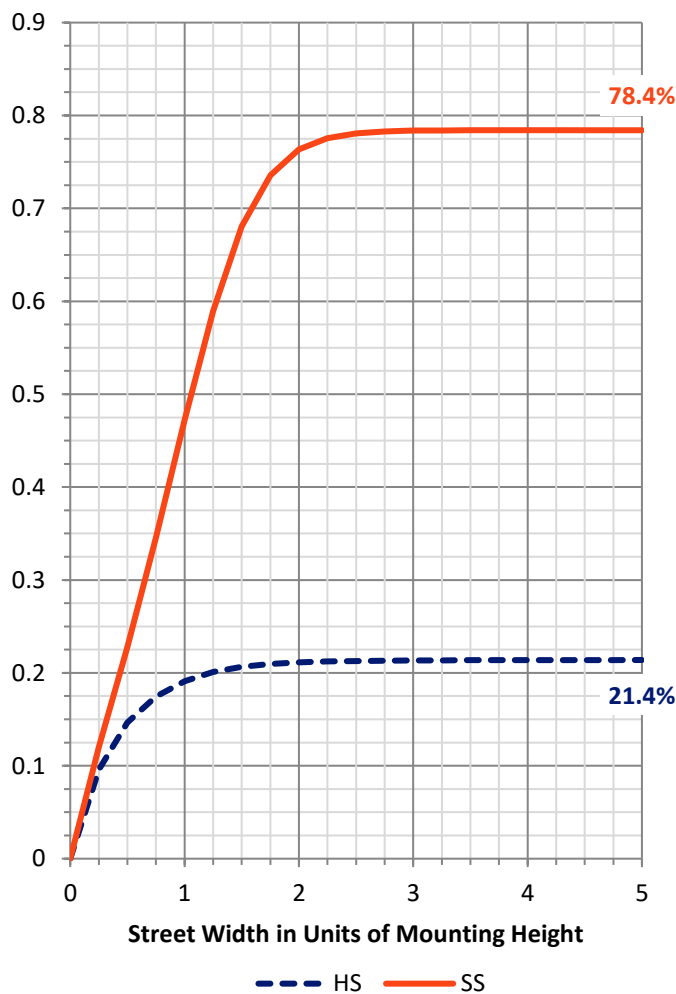
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	973.2	0.0	973.2
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	3544.4	0.0	3544.4
	% Fixture	78.5	0.0	78.5
Total	Lumens	4517.6	0.0	4517.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.9	1.7
10°-20°	249.6	5.5
20°-30°	405.1	9.0
30°-40°	621.8	13.8
40°-50°	993.1	22.0
50°-60°	1390.5	30.8
60°-70°	712.9	15.8
70°-80°	68.6	1.5
80°-90°	0.0	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°	4517.6	100.0
0°-180°	4517.6	100.0

Coefficient of Utilization



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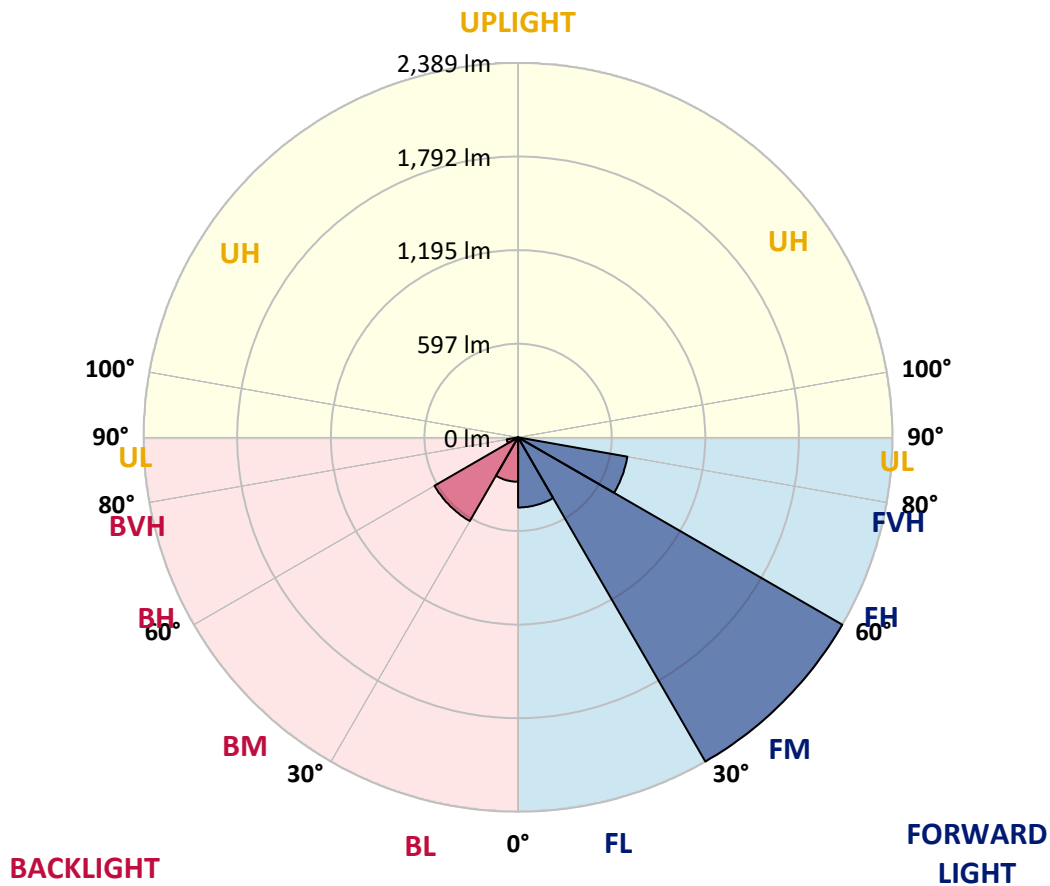
CATALOG NUMBER: GWS-SA1F-740-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	447.3	9.9			
FM (30°-60°)	2389.0	52.9			
FH (60°-80°)	708.1	15.7			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	283.4	6.3	B1/500		
BM (30°-60°)	616.3	13.6	B1/1000		
BH (60°-80°)	73.5	1.6	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°	767.6	767.6	767.6	767.6	767.6	767.6	767.6	767.6	767.6	767.6	767.6
2.5°	852.8	851.0	844.9	824.4	811.7	791.8	777.3	758.5	738.0	725.3	712.6
5°	943.4	938.5	922.2	875.1	838.9	799.6	768.2	733.8	696.9	672.8	650.4
7.5°	1030.3	1023.1	1001.3	921.6	866.7	810.5	765.8	715.7	663.7	627.5	599.7
10°	1115.5	1099.2	1064.7	966.9	892.6	825.0	772.4	715.1	654.1	608.2	577.4
12.5°	1185.5	1173.5	1126.3	1009.8	914.4	828.0	763.4	710.2	669.2	638.4	610.0
15°	1245.9	1232.6	1187.9	1048.4	933.1	815.9	725.3	678.8	685.5	697.6	673.4
17.5°	1301.5	1287.6	1239.3	1080.4	940.3	786.3	672.2	649.8	686.7	732.0	722.9
20°	1358.9	1343.2	1284.0	1106.4	937.9	739.8	618.4	625.1	677.0	729.0	733.8
22.5°	1425.9	1409.6	1340.7	1139.6	936.1	684.3	571.9	603.3	658.9	703.0	711.4
25°	1514.7	1495.4	1419.9	1188.6	940.9	633.5	538.7	582.2	628.1	668.0	672.8
27.5°	1631.8	1607.1	1511.1	1248.9	951.2	593.7	524.2	553.2	588.8	624.5	628.7
30°	1784.6	1753.2	1615.5	1301.5	946.4	565.9	514.6	524.2	545.4	574.3	575.0
32.5°	1963.4	1920.5	1732.7	1346.8	904.7	545.4	501.3	494.6	499.5	521.8	526.0
35°	2173.6	2118.0	1861.9	1389.7	828.6	505.5	477.1	454.8	453.0	463.8	474.1
37.5°	2414.6	2348.1	2025.0	1444.6	738.6	463.8	441.5	419.1	409.5	414.9	430.6
40°	2636.8	2563.1	2195.3	1511.1	646.8	426.4	399.8	376.9	365.4	367.2	386.5
42.5°	2897.7	2821.6	2403.7	1598.0	570.7	401.0	356.3	332.8	317.7	326.1	348.5
45°	3293.9	3207.5	2707.5	1673.5	510.3	395.0	318.3	285.1	277.8	292.3	318.9
47.5°	3835.0	3729.3	3124.8	1719.4	459.0	400.4	291.7	246.4	248.2	264.5	291.1
50°	4371.9	4257.8	3607.3	1659.0	416.7	389.5	278.4	216.2	227.7	242.2	266.3
52.5°	4740.9	4592.4	3842.3	1484.5	378.1	348.5	277.2	187.8	209.6	214.4	234.9
55°	4755.4	4572.4	3722.1	1170.4	325.5	294.1	264.5	164.3	189.6	191.4	209.0
57.5°	4168.4	4002.9	3252.8	803.8	289.3	215.6	210.8	143.7	155.8	170.9	181.8
60°	3171.3	3030.6	2432.7	368.4	219.8	137.1	144.3	123.8	116.6	138.9	149.8
62.5°	1942.3	1852.3	1459.1	163.1	140.1	73.1	87.6	98.4	87.6	96.0	105.1
65°	771.2	731.4	553.8	69.5	57.4	36.8	39.9	57.4	61.6	67.6	76.1
67.5°	134.1	126.8	93.0	30.8	23.6	22.3	19.3	26.6	37.4	41.7	48.3
70°	17.5	16.9	15.1	12.7	12.1	10.9	8.5	16.9	25.4	26.6	30.8
72.5°	4.2	3.6	3.6	3.0	3.6	1.2	1.2	9.1	18.1	18.7	21.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	11.5	12.7	15.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	767.6	767.6	767.6	767.6	767.6	767.6	767.6	767.6	767.6	767.6	767.6
2.5°	702.4	690.3	686.1	680.0	672.2	674.6	663.7	660.1	665.5	672.8	671.0
5°	638.4	625.1	616.0	602.1	599.7	594.3	590.7	585.8	591.9	600.3	602.1
7.5°	587.6	576.2	567.1	562.9	559.9	557.4	550.2	546.6	546.6	550.2	553.2
10°	565.9	557.4	555.6	556.8	561.7	561.1	554.4	549.6	543.5	540.5	544.1
12.5°	596.1	582.2	579.8	580.4	586.4	585.8	578.6	572.5	571.3	572.5	584.0
15°	647.4	626.3	610.6	607.6	610.6	609.4	603.9	600.3	602.1	619.6	639.0
17.5°	693.3	660.7	632.3	621.5	620.8	619.0	613.6	612.4	621.5	654.1	682.5
20°	706.6	674.6	634.1	620.2	617.2	615.4	609.4	611.2	622.7	661.9	686.1
22.5°	689.1	658.3	616.0	602.1	599.7	599.1	593.1	595.5	605.1	639.6	659.5
25°	655.9	629.9	585.8	573.7	573.7	572.5	567.1	568.3	574.3	604.5	623.9
27.5°	615.4	590.7	553.8	541.7	543.5	545.4	538.7	536.9	541.7	570.1	581.6
30°	568.9	551.4	522.4	511.5	510.9	518.2	509.1	506.7	513.3	535.7	538.1
32.5°	523.6	515.2	494.6	486.2	486.8	488.0	483.2	483.2	489.2	501.3	500.7
35°	479.5	474.1	470.5	464.4	463.8	461.4	461.4	462.6	469.3	473.5	465.6
37.5°	437.3	442.7	446.9	440.9	436.0	436.0	436.0	441.5	447.5	445.7	432.4
40°	399.8	411.3	424.6	417.9	406.5	405.8	408.3	417.3	426.4	415.5	403.4
42.5°	367.8	382.3	401.0	397.4	384.7	382.9	384.7	396.2	403.4	389.5	376.3
45°	336.4	354.5	376.9	376.9	363.0	361.2	361.8	376.9	381.1	364.8	347.9
47.5°	309.8	329.8	353.3	353.3	341.8	338.2	341.2	356.9	359.9	337.0	321.3
50°	284.5	306.2	332.2	330.4	322.5	319.5	324.9	341.8	338.2	312.8	296.5
52.5°	252.4	275.4	311.0	312.8	308.6	309.2	315.9	326.7	316.5	285.7	271.8
55°	223.5	247.0	282.6	292.3	292.3	291.7	294.7	303.2	294.7	257.9	241.0
57.5°	192.1	212.0	241.6	244.0	245.8	239.2	243.4	254.9	250.6	219.2	209.6
60°	157.6	174.5	191.4	193.3	185.4	171.5	179.4	192.7	195.7	172.1	161.3
62.5°	111.7	128.0	148.0	148.0	140.1	126.2	136.5	148.0	143.7	119.6	112.9
65°	83.3	98.4	113.5	120.2	113.5	103.9	111.7	120.2	113.5	93.6	83.9
67.5°	53.8	64.0	73.1	78.5	79.7	78.5	82.1	79.7	71.9	58.6	53.1
70°	32.6	38.0	42.9	47.7	51.3	53.1	55.0	49.5	41.7	34.4	32.6
72.5°	23.6	28.4	32.6	36.2	40.5	41.7	41.7	38.0	30.8	24.2	22.3
75°	16.3	20.5	24.2	26.6	30.2	31.4	31.4	28.4	22.9	17.5	15.7
77.5°	0.6	4.2	4.2	3.6	4.8	6.0	6.0	7.2	6.6	4.8	4.2
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°	767.6	767.6	767.6	767.6	767.6	767.6	767.6	767.6	767.6	767.6	767.6
2.5°	674.6	696.3	702.4	724.7	744.7	764.6	788.7	803.2	825.0	840.1	848.5
5°	608.2	626.3	648.0	681.2	715.7	753.7	799.6	839.5	889.6	926.4	938.5
7.5°	559.9	583.4	608.8	650.4	697.6	748.3	812.9	878.1	954.8	1005.0	1037.0
10°	550.8	575.0	608.8	649.8	699.4	757.3	836.5	921.0	1017.0	1078.0	1114.3
12.5°	594.3	620.2	634.7	653.5	690.9	755.5	857.0	964.5	1077.4	1143.9	1182.5
15°	658.3	681.2	657.7	634.1	658.3	736.2	868.5	1000.7	1130.6	1207.3	1247.1
17.5°	702.4	704.2	652.9	602.7	609.4	701.2	872.7	1037.0	1187.3	1267.7	1309.3
20°	698.2	683.7	631.7	576.2	555.6	655.9	867.9	1069.0	1244.7	1328.7	1369.7
22.5°	665.5	648.6	604.5	550.2	510.3	602.1	859.4	1098.0	1297.3	1392.7	1431.3
25°	626.3	608.2	571.9	524.2	481.3	550.2	852.8	1137.8	1363.7	1476.0	1506.2
27.5°	580.4	564.7	533.9	499.5	469.3	510.9	851.0	1190.4	1444.0	1577.5	1598.6
30°	535.7	521.2	497.0	477.1	464.4	488.0	844.9	1246.5	1540.0	1694.1	1717.0
32.5°	492.8	478.3	463.2	460.2	460.8	479.5	824.4	1302.1	1654.2	1863.2	1880.1
35°	456.0	439.1	433.0	440.3	453.6	465.0	766.4	1348.0	1776.8	2047.4	2061.2
37.5°	420.9	404.0	403.4	420.9	435.4	442.7	698.2	1393.3	1942.3	2234.6	2252.1
40°	388.9	372.0	378.1	399.2	410.7	414.3	615.4	1462.1	2117.4	2432.1	2422.4
42.5°	361.8	344.2	347.9	375.0	385.3	395.0	539.3	1519.5	2285.9	2619.3	2616.3
45°	335.2	321.9	319.5	349.1	358.1	396.8	483.8	1563.6	2502.7	2857.8	2862.7
47.5°	309.2	299.0	299.6	312.2	334.6	405.8	436.6	1592.6	2817.4	3235.9	3152.0
50°	285.7	277.8	284.5	270.0	319.5	394.4	396.2	1586.5	3168.9	3598.3	3429.8
52.5°	259.7	257.9	260.9	225.9	295.3	347.9	358.1	1506.2	3333.7	3845.9	3749.9
55°	233.1	232.5	208.4	180.6	247.0	277.8	306.8	1256.8	3328.3	3977.5	4094.1
57.5°	201.7	196.9	158.2	147.4	192.1	193.3	279.6	823.2	2949.6	3662.3	3903.9
60°	152.8	149.2	116.0	119.6	134.1	123.8	222.9	410.1	2204.4	2853.0	3125.4
62.5°	105.7	100.9	86.4	92.4	86.4	70.7	136.5	202.9	1335.3	1801.6	2048.6
65°	77.3	71.9	59.2	50.7	40.5	40.5	51.9	77.9	517.0	765.8	923.4
67.5°	47.7	45.3	35.0	25.4	24.8	26.6	27.2	38.7	83.3	132.9	162.5
70°	30.8	28.4	23.6	16.3	15.1	15.7	16.3	18.1	21.1	22.9	27.8
72.5°	21.1	19.9	16.9	9.1	7.2	7.9	8.5	8.5	10.3	9.7	11.5
75°	15.1	13.9	12.1	4.2	2.4	3.0	3.6	3.0	3.6	2.4	3.0
77.5°	4.2	4.2	3.0	0.6	0.0	0.6	1.2	1.2	0.6	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	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°	767.6	767.6	767.6	767.6	767.6	767.6	767.6	767.6	767.6	767.6
2.5°	870.3	884.2	889.6	881.8	888.4	877.5	873.3	857.0	855.8	852.8
5°	987.4	1018.8	1037.6	1049.0	1035.8	1021.3	999.5	962.1	950.6	943.4
7.5°	1102.8	1151.7	1183.7	1198.8	1195.2	1165.6	1126.3	1063.5	1041.2	1030.3
10°	1203.0	1262.8	1301.5	1320.2	1312.4	1286.4	1230.2	1151.7	1122.1	1115.5
12.5°	1273.1	1328.1	1354.6	1370.9	1371.5	1361.3	1308.1	1229.0	1194.0	1185.5
15°	1317.2	1340.7	1341.3	1351.0	1367.9	1390.9	1366.1	1296.1	1258.6	1245.9
17.5°	1345.0	1319.0	1292.4	1294.8	1322.6	1383.6	1409.0	1355.2	1315.4	1301.5
20°	1364.9	1282.8	1233.2	1233.8	1262.2	1354.6	1438.6	1412.6	1371.5	1358.9
22.5°	1377.6	1250.8	1180.1	1178.3	1208.5	1320.2	1465.8	1480.9	1440.4	1425.9
25°	1403.6	1235.7	1148.1	1158.4	1184.9	1309.3	1502.6	1571.5	1534.0	1514.7
27.5°	1450.1	1250.8	1145.1	1168.6	1198.8	1341.3	1566.6	1692.2	1653.6	1631.8
30°	1530.4	1307.5	1191.6	1224.2	1260.4	1425.3	1674.1	1860.7	1805.2	1784.6
32.5°	1659.6	1425.3	1335.3	1405.4	1440.4	1563.0	1835.4	2049.8	2004.5	1963.4
35°	1837.8	1694.1	1683.8	1846.8	1838.4	1823.9	2033.5	2281.7	2213.4	2173.6
37.5°	2083.0	2126.5	2202.6	2364.4	2359.0	2248.5	2293.8	2500.9	2465.9	2414.6
40°	2389.2	2481.6	2610.8	2842.7	2770.3	2631.4	2613.2	2725.6	2697.2	2636.8
42.5°	2569.8	2729.2	2975.6	3184.0	3126.0	2883.2	2862.7	3025.7	2963.5	2897.7
45°	2653.7	2930.9	3414.1	3696.1	3520.4	3050.5	3042.6	3417.1	3382.1	3293.9
47.5°	2692.4	3134.4	3927.4	4354.4	4025.9	3197.3	3168.9	3984.8	3938.9	3835.0
50°	2735.2	3415.3	4545.9	5117.2	4636.4	3363.3	3383.9	4513.8	4494.5	4371.9
52.5°	2829.5	3712.4	5307.4	5989.3	5376.9	3623.6	3752.9	5012.7	4882.2	4740.9
55°	2970.8	4036.1	6099.8	6880.1	6132.4	3973.3	4152.1	5277.8	4911.8	4755.4
57.5°	2814.4	4117.1	6569.1	7502.1	6467.6	3974.5	3814.5	4818.2	4320.0	4168.4
60°	2233.4	3830.2	6388.5	7367.5	6181.9	3529.4	2920.7	3761.9	3272.7	3171.3
62.5°	1509.8	3212.4	5623.9	6230.8	5291.1	2776.3	1898.2	2446.6	2026.2	1942.3
65°	827.4	2396.4	4544.0	4713.7	4141.2	1939.2	976.6	1061.7	808.7	771.2
67.5°	228.3	1668.1	3343.4	3127.2	2905.6	1262.8	252.4	189.6	135.3	134.1
70°	57.4	1103.4	2003.3	2064.9	1781.6	808.7	48.3	22.9	18.1	17.5
72.5°	24.2	474.7	950.6	1092.5	911.9	374.4	17.5	6.6	5.4	4.2
75°	3.0	38.0	80.9	122.6	83.9	40.5	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	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
85°	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
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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