

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: P631769

Luminaire Tested: GWS-SA2B-735-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631769
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-SA2B-735-U-SLL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3649.8 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G0

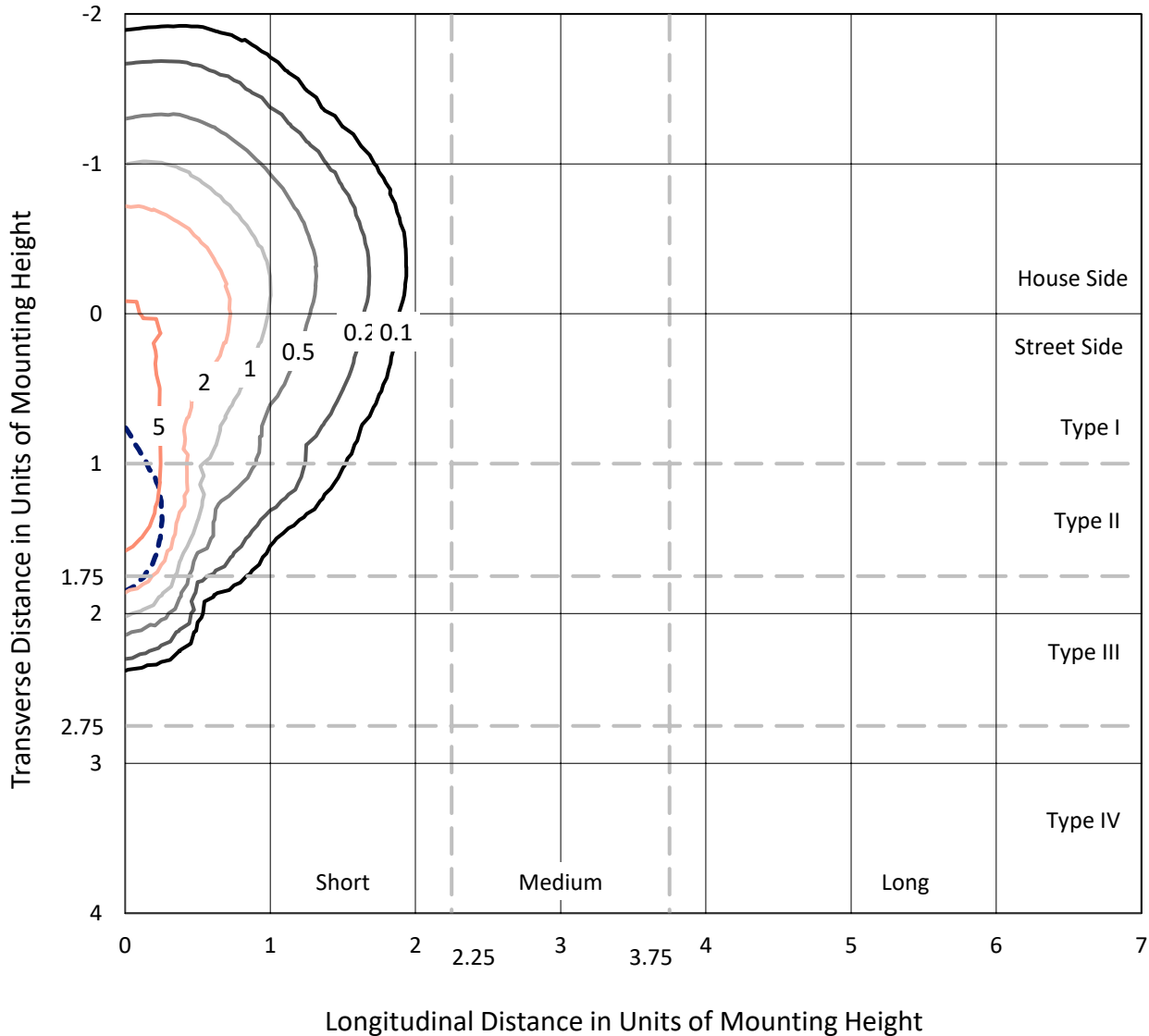
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

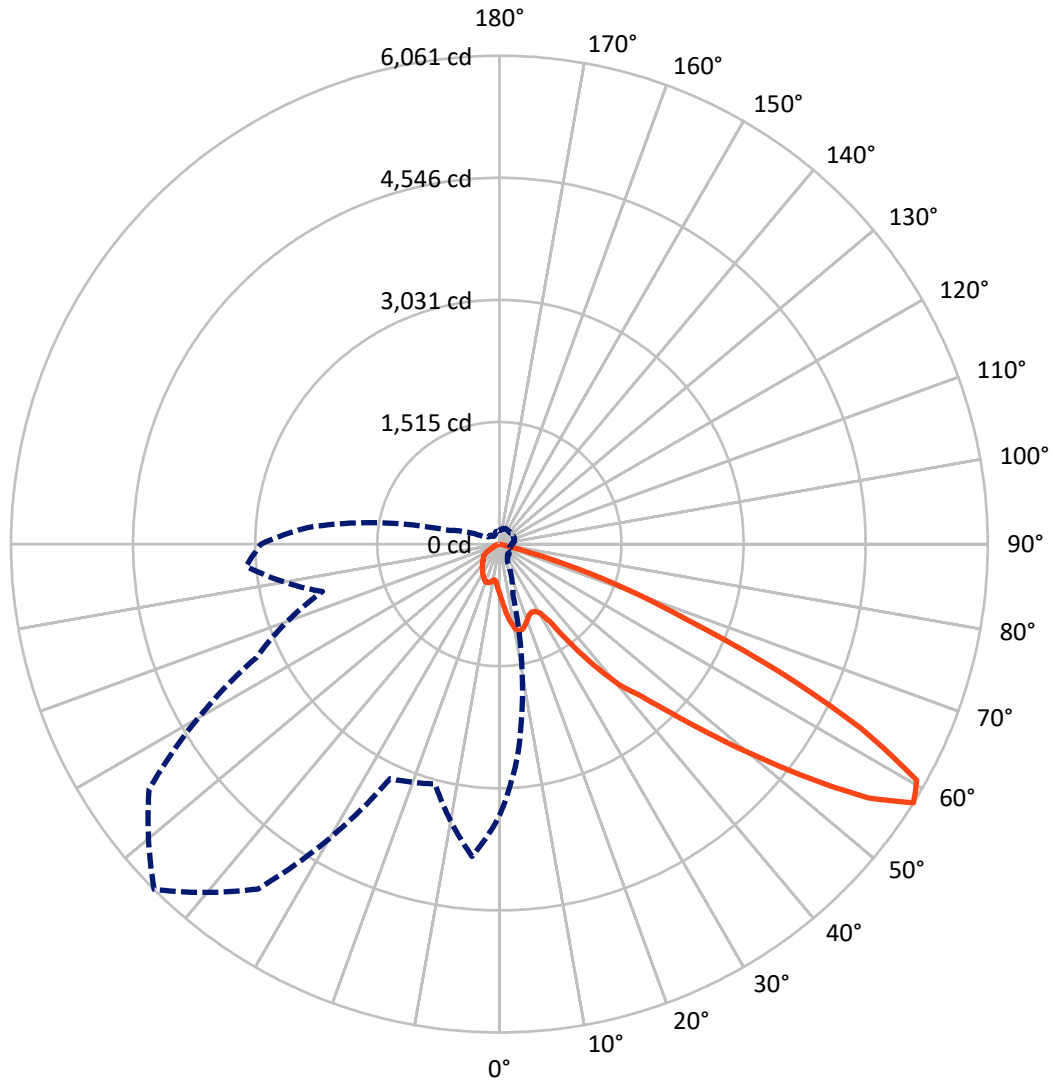
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.7 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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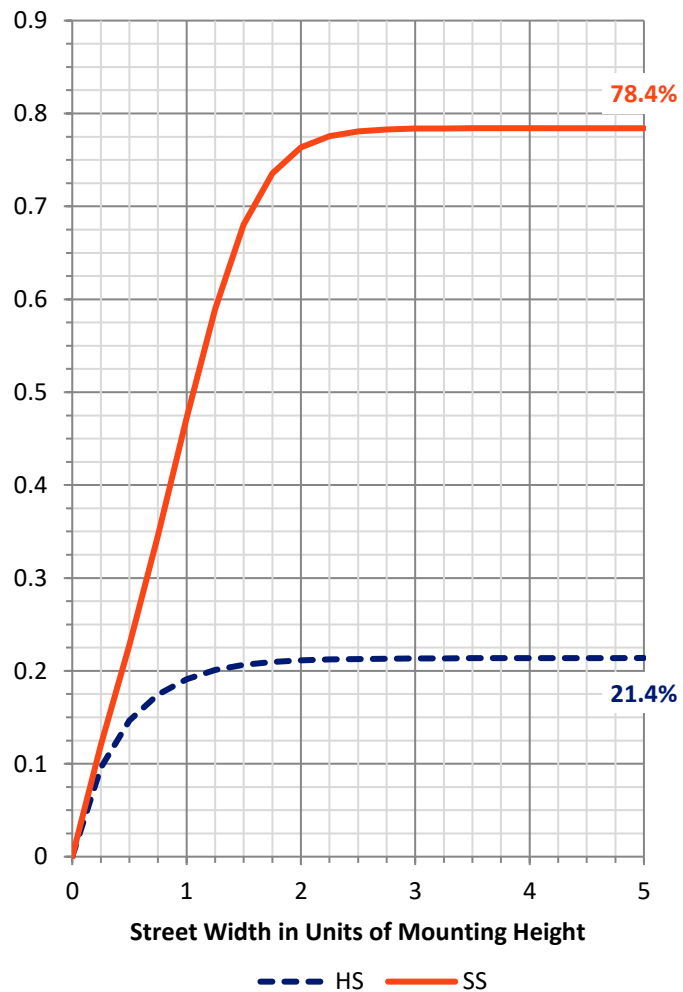
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	786.3	0.0	786.3
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	2863.5	0.0	2863.5
	% Fixture	78.5	0.0	78.5
Total	Lumens	3649.8	0.0	3649.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.3	1.7
10°-20°	201.7	5.5
20°-30°	327.3	9.0
30°-40°	502.4	13.8
40°-50°	802.3	22.0
50°-60°	1123.4	30.8
60°-70°	576.0	15.8
70°-80°	55.5	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°	3649.8	100.0
0°-180°	3649.8	100.0

Coefficient of Utilization



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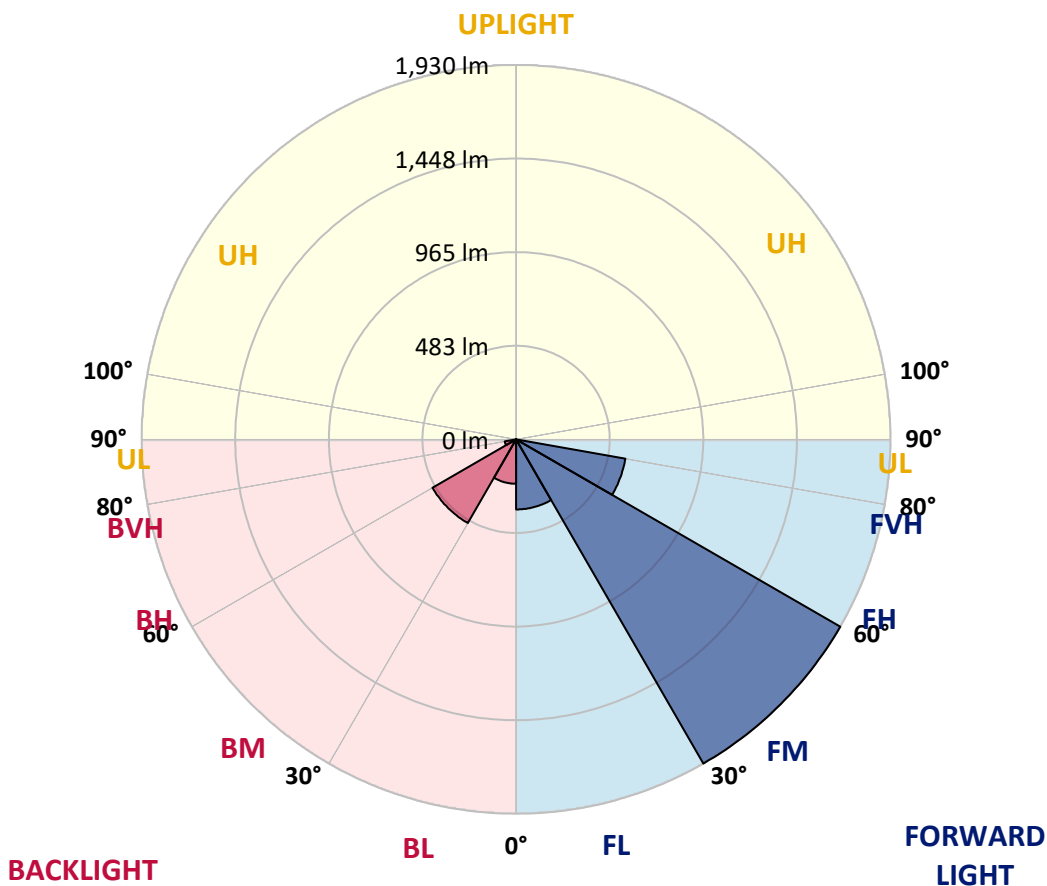
CATALOG NUMBER: GWS-SA2B-735-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	361.4	9.9			
FM (30°-60°)	1930.1	52.9			
FH (60°-80°)	572.1	15.7			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	229.0	6.3	B1/500		
BM (30°-60°)	497.9	13.6	B1/1000		
BH (60°-80°)	59.4	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-G0

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	620.2	620.2	620.2	620.2	620.2	620.2	620.2	620.2	620.2	620.2	620.2
2.5°	689.0	687.5	682.6	666.0	655.8	639.7	628.0	612.8	596.2	586.0	575.8
5°	762.1	758.2	745.1	707.0	677.7	646.0	620.6	592.8	563.1	543.6	525.5
7.5°	832.4	826.5	809.0	744.6	700.2	654.8	618.7	578.2	536.2	507.0	484.5
10°	901.2	888.0	860.2	781.2	721.2	666.5	624.1	577.7	528.4	491.3	466.5
12.5°	957.8	948.0	910.0	815.8	738.7	668.9	616.7	573.8	540.6	515.7	492.8
15°	1006.6	995.9	959.8	847.0	753.8	659.2	586.0	548.4	553.8	563.6	544.0
17.5°	1051.5	1040.3	1001.2	872.9	759.7	635.3	543.1	525.0	554.8	591.4	584.0
20°	1097.8	1085.1	1037.3	893.9	757.8	597.7	499.6	505.0	547.0	588.9	592.8
22.5°	1152.0	1138.8	1083.2	920.7	756.3	552.8	462.1	487.4	532.3	567.9	574.8
25°	1223.7	1208.1	1147.1	960.2	760.2	511.8	435.2	470.4	507.4	539.6	543.6
27.5°	1318.4	1298.4	1220.8	1009.0	768.5	479.6	423.5	446.9	475.7	504.5	507.9
30°	1441.8	1416.5	1305.2	1051.5	764.6	457.2	415.7	423.5	440.6	464.0	464.5
32.5°	1586.3	1551.6	1399.9	1088.1	730.9	440.6	405.0	399.6	403.5	421.6	425.0
35°	1756.0	1711.2	1504.3	1122.7	669.4	408.4	385.5	367.4	365.9	374.7	383.0
37.5°	1950.7	1897.1	1636.0	1167.1	596.7	374.7	356.7	338.6	330.8	335.2	347.9
40°	2130.3	2070.8	1773.6	1220.8	522.6	344.5	323.0	304.5	295.2	296.7	312.3
42.5°	2341.1	2279.6	1941.9	1291.1	461.1	324.0	287.9	268.8	256.6	263.5	281.5
45°	2661.2	2591.4	2187.4	1352.0	412.3	319.1	257.1	230.3	224.4	236.2	257.6
47.5°	3098.3	3012.9	2524.5	1389.1	370.8	323.5	235.7	199.1	200.5	213.7	235.2
50°	3532.1	3439.9	2914.4	1340.3	336.7	314.7	224.9	174.7	183.9	195.7	215.2
52.5°	3830.2	3710.2	3104.2	1199.3	305.4	281.5	224.0	151.7	169.3	173.2	189.8
55°	3841.9	3694.1	3007.1	945.6	263.0	237.6	213.7	132.7	153.2	154.7	168.8
57.5°	3367.7	3234.0	2628.0	649.4	233.7	174.2	170.3	116.1	125.9	138.1	146.9
60°	2562.1	2448.4	1965.4	297.6	177.6	110.8	116.6	100.0	94.2	112.2	121.0
62.5°	1569.2	1496.5	1178.8	131.7	113.2	59.0	70.7	79.5	70.7	77.6	84.9
65°	623.1	590.9	447.4	56.1	46.4	29.8	32.2	46.4	49.8	54.6	61.5
67.5°	108.3	102.5	75.1	24.9	19.0	18.1	15.6	21.5	30.3	33.7	39.0
70°	14.1	13.7	12.2	10.2	9.8	8.8	6.8	13.7	20.5	21.5	24.9
72.5°	3.4	2.9	2.9	2.4	2.9	1.0	1.0	7.3	14.6	15.1	17.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	9.3	10.2	12.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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°	620.2	620.2	620.2	620.2	620.2	620.2	620.2	620.2	620.2	620.2	620.2
2.5°	567.5	557.7	554.3	549.4	543.1	545.0	536.2	533.3	537.7	543.6	542.1
5°	515.7	505.0	497.7	486.5	484.5	480.1	477.2	473.3	478.2	485.0	486.5
7.5°	474.8	465.5	458.2	454.7	452.3	450.4	444.5	441.6	441.6	444.5	446.9
10°	457.2	450.4	448.9	449.9	453.8	453.3	447.9	444.0	439.1	436.7	439.6
12.5°	481.6	470.4	468.4	468.9	473.8	473.3	467.4	462.6	461.6	462.6	471.8
15°	523.1	506.0	493.3	490.9	493.3	492.3	487.9	485.0	486.5	500.6	516.2
17.5°	560.1	533.8	510.9	502.1	501.6	500.1	495.7	494.8	502.1	528.4	551.4
20°	570.9	545.0	512.3	501.1	498.7	497.2	492.3	493.8	503.1	534.8	554.3
22.5°	556.7	531.8	497.7	486.5	484.5	484.0	479.1	481.1	488.9	516.7	532.8
25°	529.9	508.9	473.3	463.5	463.5	462.6	458.2	459.1	464.0	488.4	504.0
27.5°	497.2	477.2	447.4	437.7	439.1	440.6	435.2	433.8	437.7	460.6	469.9
30°	459.6	445.5	422.1	413.3	412.8	418.6	411.3	409.4	414.7	432.8	434.7
32.5°	423.0	416.2	399.6	392.8	393.3	394.2	390.3	390.3	395.2	405.0	404.5
35°	387.4	383.0	380.1	375.2	374.7	372.8	372.8	373.8	379.1	382.5	376.2
37.5°	353.3	357.7	361.1	356.2	352.3	352.3	352.3	356.7	361.6	360.1	349.4
40°	323.0	332.3	343.0	337.6	328.4	327.9	329.8	337.2	344.5	335.7	325.9
42.5°	297.1	308.9	324.0	321.1	310.8	309.3	310.8	320.1	325.9	314.7	304.0
45°	271.8	286.4	304.5	304.5	293.2	291.8	292.3	304.5	307.9	294.7	281.0
47.5°	250.3	266.4	285.4	285.4	276.2	273.2	275.7	288.4	290.8	272.3	259.6
50°	229.8	247.4	268.4	266.9	260.6	258.1	262.5	276.2	273.2	252.7	239.6
52.5°	204.0	222.5	251.3	252.7	249.3	249.8	255.2	264.0	255.7	230.8	219.6
55°	180.5	199.6	228.3	236.2	236.2	235.7	238.1	244.9	238.1	208.3	194.7
57.5°	155.2	171.3	195.2	197.1	198.6	193.2	196.6	205.9	202.5	177.1	169.3
60°	127.3	141.0	154.7	156.1	149.8	138.6	144.9	155.6	158.1	139.1	130.3
62.5°	90.3	103.4	119.5	119.5	113.2	102.0	110.3	119.5	116.1	96.6	91.2
65°	67.3	79.5	91.7	97.1	91.7	83.9	90.3	97.1	91.7	75.6	67.8
67.5°	43.4	51.7	59.0	63.4	64.4	63.4	66.4	64.4	58.1	47.3	42.9
70°	26.3	30.7	34.6	38.5	41.5	42.9	44.4	40.0	33.7	27.8	26.3
72.5°	19.0	22.9	26.3	29.3	32.7	33.7	33.7	30.7	24.9	19.5	18.1
75°	13.2	16.6	19.5	21.5	24.4	25.4	25.4	22.9	18.5	14.1	12.7
77.5°	0.5	3.4	3.4	2.9	3.9	4.9	4.9	5.9	5.4	3.9	3.4
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°	620.2	620.2	620.2	620.2	620.2	620.2	620.2	620.2	620.2	620.2	620.2
2.5°	545.0	562.6	567.5	585.5	601.6	617.7	637.2	648.9	666.5	678.7	685.5
5°	491.3	506.0	523.5	550.4	578.2	608.9	646.0	678.2	718.7	748.5	758.2
7.5°	452.3	471.3	491.8	525.5	563.6	604.5	656.7	709.4	771.4	811.9	837.8
10°	445.0	464.5	491.8	525.0	565.0	611.9	675.8	744.1	821.7	870.9	900.2
12.5°	480.1	501.1	512.8	527.9	558.2	610.4	692.4	779.2	870.5	924.1	955.4
15°	531.8	550.4	531.4	512.3	531.8	594.8	701.6	808.5	913.4	975.4	1007.6
17.5°	567.5	568.9	527.4	487.0	492.3	566.5	705.1	837.8	959.3	1024.2	1057.8
20°	564.0	552.3	510.4	465.5	448.9	529.9	701.2	863.6	1005.6	1073.4	1106.6
22.5°	537.7	524.0	488.4	444.5	412.3	486.5	694.3	887.1	1048.1	1125.2	1156.4
25°	506.0	491.3	462.1	423.5	388.9	444.5	689.0	919.3	1101.7	1192.5	1216.9
27.5°	468.9	456.2	431.3	403.5	379.1	412.8	687.5	961.7	1166.6	1274.5	1291.5
30°	432.8	421.1	401.6	385.5	375.2	394.2	682.6	1007.1	1244.2	1368.6	1387.2
32.5°	398.1	386.4	374.2	371.8	372.3	387.4	666.0	1052.0	1336.4	1505.3	1518.9
35°	368.4	354.7	349.8	355.7	366.4	375.7	619.2	1089.1	1435.5	1654.1	1665.3
37.5°	340.1	326.4	325.9	340.1	351.8	357.7	564.0	1125.6	1569.2	1805.3	1819.5
40°	314.2	300.6	305.4	322.5	331.8	334.7	497.2	1181.3	1710.7	1964.9	1957.1
42.5°	292.3	278.1	281.0	303.0	311.3	319.1	435.7	1227.6	1846.8	2116.1	2113.7
45°	270.8	260.1	258.1	282.0	289.3	320.6	390.8	1263.2	2022.0	2308.9	2312.8
47.5°	249.8	241.5	242.0	252.3	270.3	327.9	352.8	1286.7	2276.2	2614.3	2546.5
50°	230.8	224.4	229.8	218.1	258.1	318.6	320.1	1281.8	2560.2	2907.1	2770.9
52.5°	209.8	208.3	210.8	182.5	238.6	281.0	289.3	1216.9	2693.4	3107.1	3029.5
55°	188.3	187.9	168.3	145.9	199.6	224.4	247.9	1015.4	2689.0	3213.5	3307.7
57.5°	163.0	159.1	127.8	119.1	155.2	156.1	225.9	665.0	2383.0	2958.8	3154.0
60°	123.4	120.5	93.7	96.6	108.3	100.0	180.0	331.3	1780.9	2305.0	2525.0
62.5°	85.4	81.5	69.8	74.7	69.8	57.1	110.3	163.9	1078.8	1455.5	1655.0
65°	62.5	58.1	47.8	41.0	32.7	32.7	42.0	62.9	417.7	618.7	746.0
67.5°	38.5	36.6	28.3	20.5	20.0	21.5	22.0	31.2	67.3	107.3	131.3
70°	24.9	22.9	19.0	13.2	12.2	12.7	13.2	14.6	17.1	18.5	22.4
72.5°	17.1	16.1	13.7	7.3	5.9	6.3	6.8	6.8	8.3	7.8	9.3
75°	12.2	11.2	9.8	3.4	2.0	2.4	2.9	2.4	2.9	2.0	2.4
77.5°	3.4	3.4	2.4	0.5	0.0	0.5	1.0	1.0	0.5	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	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°	620.2	620.2	620.2	620.2	620.2	620.2	620.2	620.2	620.2	620.2
2.5°	703.1	714.3	718.7	712.4	717.7	709.0	705.5	692.4	691.4	689.0
5°	797.8	823.1	838.3	847.5	836.8	825.1	807.5	777.3	768.0	762.1
7.5°	891.0	930.5	956.3	968.5	965.6	941.7	910.0	859.2	841.2	832.4
10°	972.0	1020.3	1051.5	1066.6	1060.3	1039.3	993.9	930.5	906.6	901.2
12.5°	1028.5	1073.0	1094.4	1107.6	1108.1	1099.8	1056.8	992.9	964.6	957.8
15°	1064.2	1083.2	1083.7	1091.5	1105.2	1123.7	1103.7	1047.1	1016.8	1006.6
17.5°	1086.6	1065.6	1044.2	1046.1	1068.6	1117.8	1138.3	1094.9	1062.7	1051.5
20°	1102.7	1036.4	996.3	996.8	1019.8	1094.4	1162.2	1141.3	1108.1	1097.8
22.5°	1113.0	1010.5	953.4	951.9	976.3	1066.6	1184.2	1196.4	1163.7	1152.0
25°	1133.9	998.3	927.5	935.8	957.3	1057.8	1214.0	1269.6	1239.3	1223.7
27.5°	1171.5	1010.5	925.1	944.1	968.5	1083.7	1265.7	1367.2	1335.9	1318.4
30°	1236.4	1056.4	962.7	989.0	1018.3	1151.5	1352.5	1503.3	1458.4	1441.8
32.5°	1340.8	1151.5	1078.8	1135.4	1163.7	1262.8	1482.8	1656.0	1619.4	1586.3
35°	1484.8	1368.6	1360.3	1492.1	1485.2	1473.5	1642.8	1843.4	1788.3	1756.0
37.5°	1682.9	1718.0	1779.5	1910.2	1905.8	1816.6	1853.1	2020.5	1992.2	1950.7
40°	1930.2	2004.9	2109.3	2296.7	2238.1	2125.9	2111.3	2202.0	2179.1	2130.3
42.5°	2076.1	2204.9	2404.0	2572.4	2525.5	2329.4	2312.8	2444.5	2394.3	2341.1
45°	2144.0	2367.9	2758.3	2986.1	2844.1	2464.5	2458.2	2760.7	2732.4	2661.2
47.5°	2175.2	2532.3	3173.0	3518.0	3252.5	2583.1	2560.2	3219.3	3182.3	3098.3
50°	2209.8	2759.2	3672.6	4134.2	3745.8	2717.3	2733.9	3646.8	3631.2	3532.1
52.5°	2285.9	2999.3	4287.9	4838.8	4344.0	2927.6	3032.0	4049.8	3944.4	3830.2
55°	2400.1	3260.8	4928.1	5558.5	4954.4	3210.1	3354.5	4264.0	3968.3	3841.9
57.5°	2273.7	3326.2	5307.2	6061.0	5225.2	3211.0	3081.7	3892.7	3490.1	3367.7
60°	1804.4	3094.4	5161.3	5952.2	4994.4	2851.4	2359.6	3039.3	2644.1	2562.1
62.5°	1219.8	2595.3	4543.6	5033.9	4274.7	2243.0	1533.6	1976.6	1637.0	1569.2
65°	668.5	1936.1	3671.2	3808.3	3345.7	1566.7	789.0	857.8	653.3	623.1
67.5°	184.4	1347.7	2701.2	2526.5	2347.4	1020.3	204.0	153.2	109.3	108.3
70°	46.4	891.4	1618.5	1668.2	1439.4	653.3	39.0	18.5	14.6	14.1
72.5°	19.5	383.5	768.0	882.7	736.8	302.5	14.1	5.4	4.4	3.4
75°	2.4	30.7	65.4	99.0	67.8	32.7	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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