

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: P640135

Luminaire Tested: GWS-SA5D-730-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640135
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-44)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-730-U-SLR-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16976.8 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

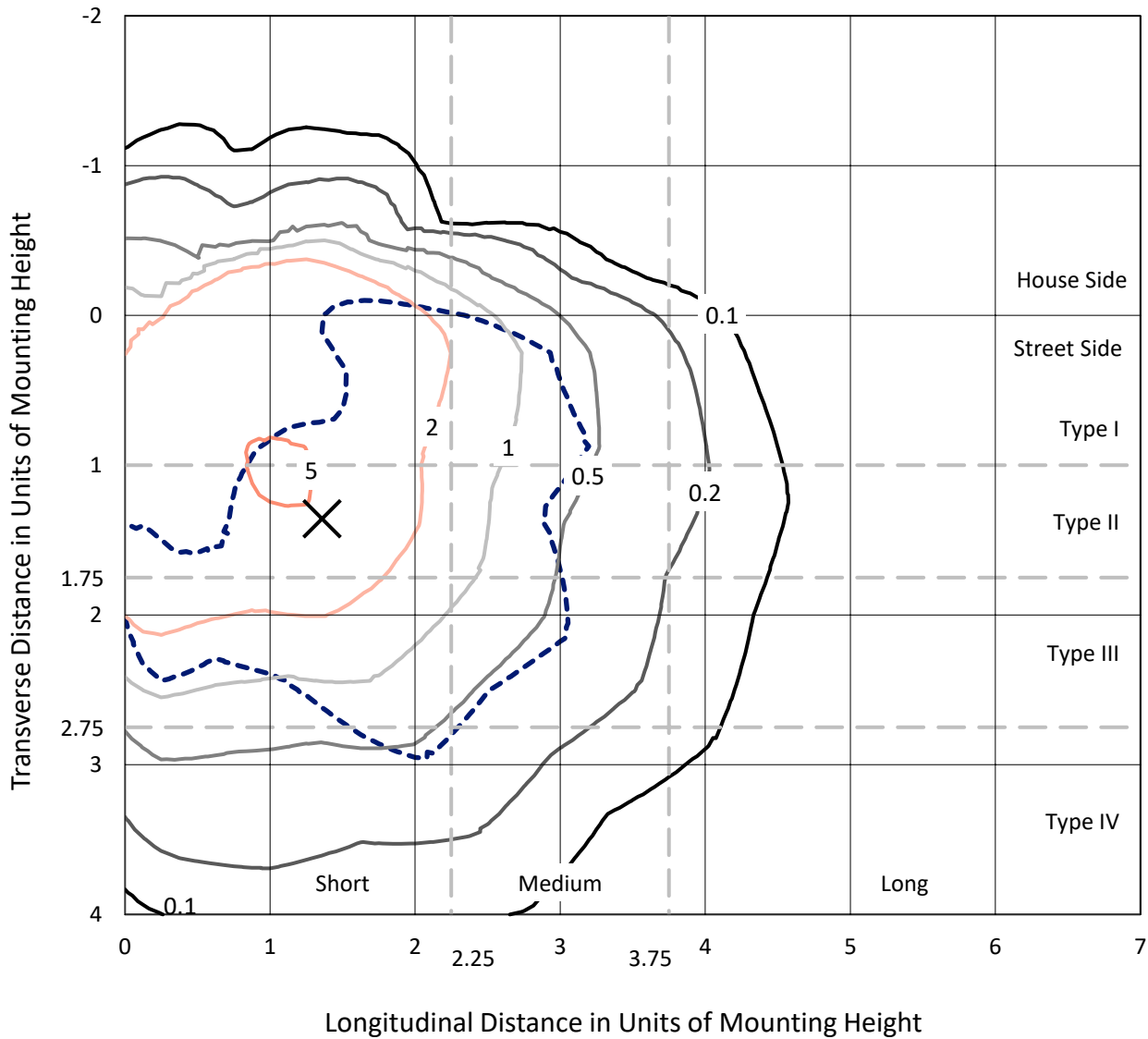
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

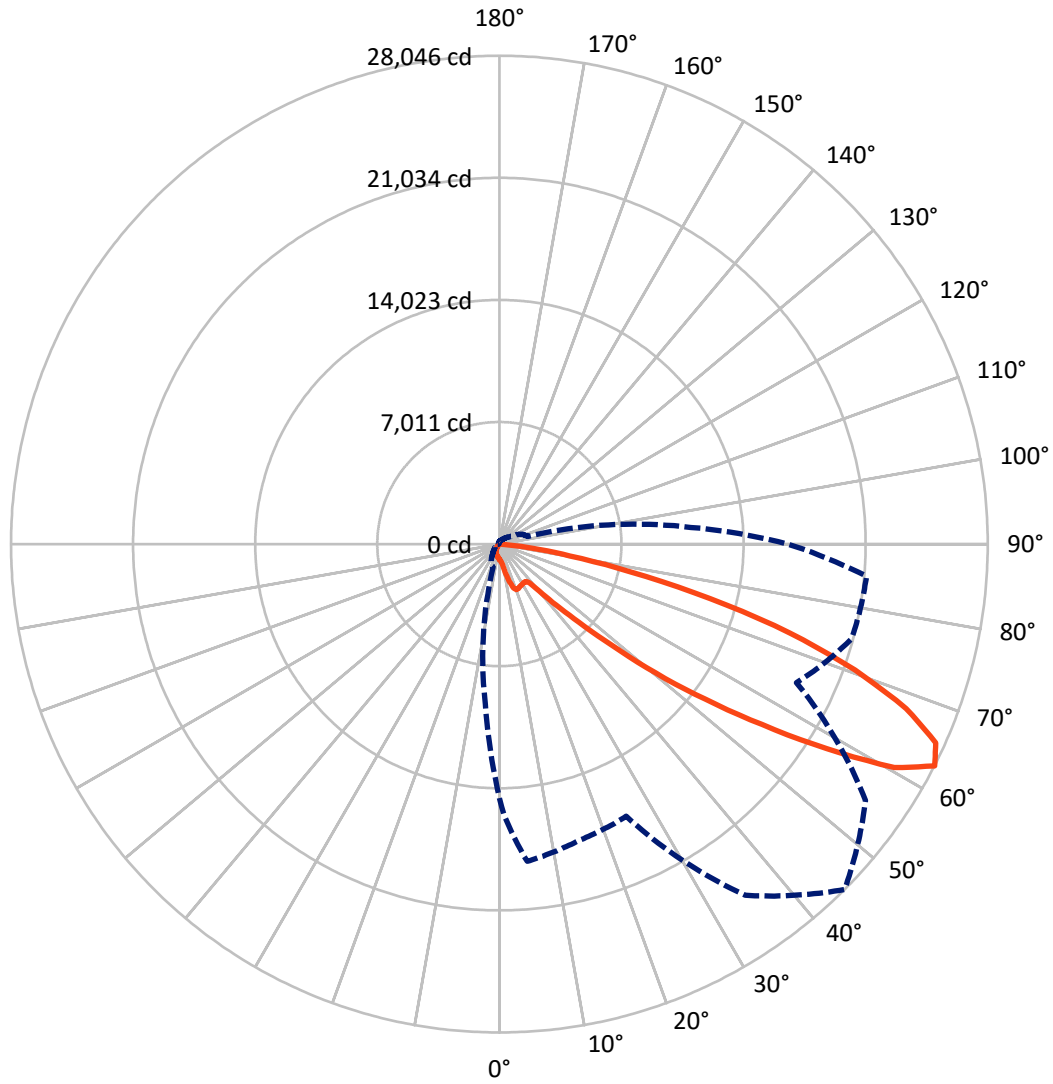
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - 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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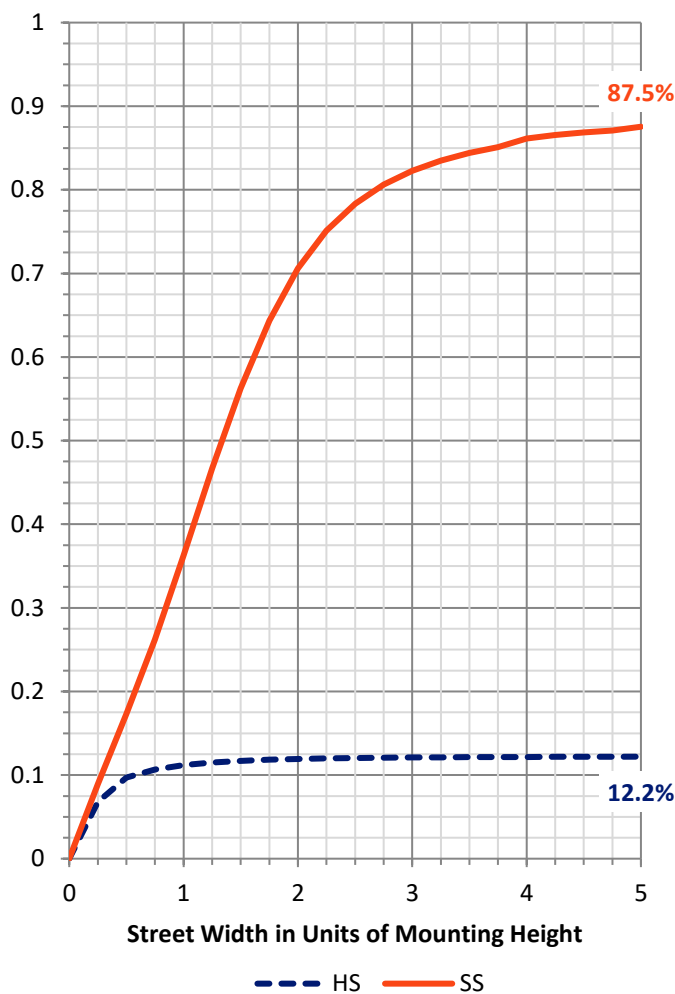
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2094.9	0.0	2094.9
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	14881.9	0.0	14881.9
	% Fixture	87.7	0.0	87.7
Total	Lumens	16976.8	0.0	16976.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.3	0.5
10°-20°	296.0	1.7
20°-30°	643.4	3.8
30°-40°	1056.1	6.2
40°-50°	1941.4	11.4
50°-60°	4169.3	24.6
60°-70°	5600.0	33.0
70°-80°	2915.9	17.2
80°-90°	276.5	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°	16976.8	100.0
0°-180°	16976.8	100.0

Coefficient of Utilization



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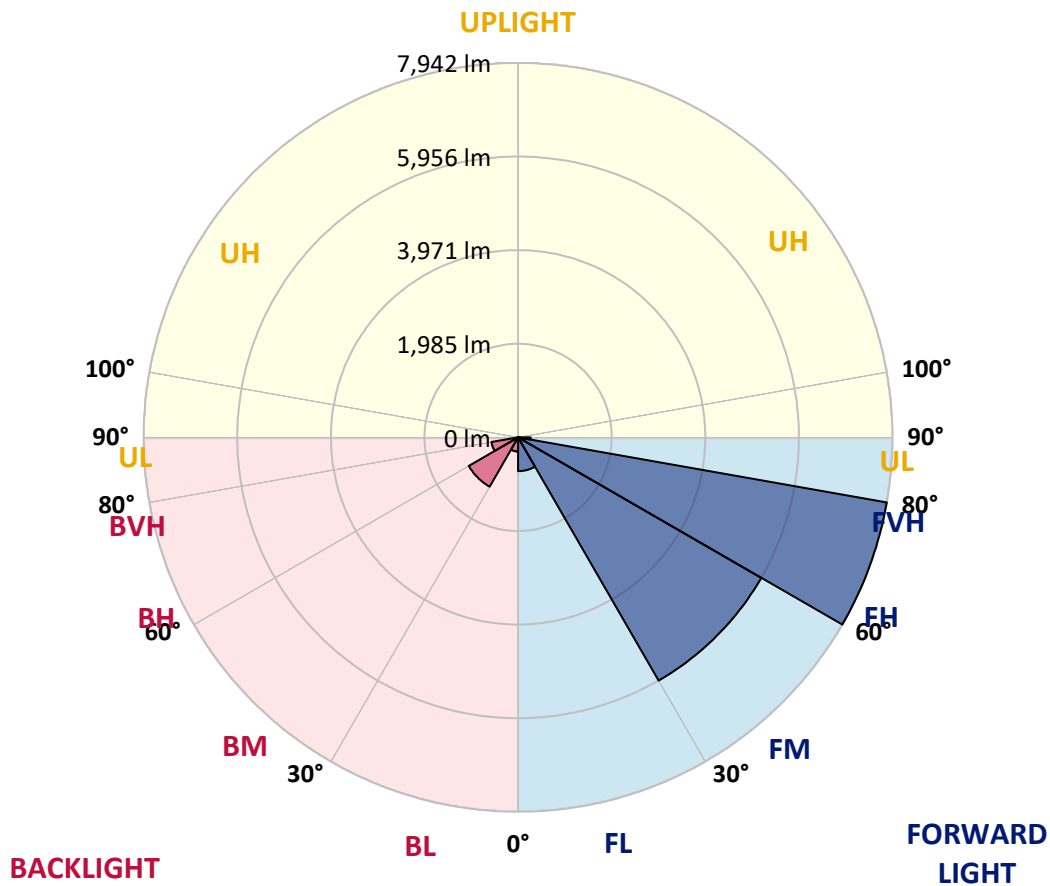
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	717.2	4.2			
FM (30°-60°)	5958.7	35.1			
FH (60°-80°)	7941.9	46.8			G4/12000
FVH (80°-90°)	264.2	1.6			G3/500
BL (0°-30°)	300.5	1.8	B1/500		
BM (30°-60°)	1208.1	7.1	B2/2500		
BH (60°-80°)	574.0	3.4	B2/1000		G2/1000
BVH (80°-90°)	12.3	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	882.4	882.4	882.4	882.4	882.4	882.4	882.4	882.4	882.4	882.4	882.4
2.5°	900.1	904.0	907.9	921.7	931.5	939.3	941.3	935.4	921.7	907.9	888.3
5°	872.6	876.6	890.3	927.5	964.8	994.2	1004.0	998.1	964.8	921.7	876.6
7.5°	870.7	878.5	911.9	990.3	1070.7	1131.5	1147.2	1133.4	1070.7	984.4	892.2
10°	941.3	955.0	1004.0	1145.2	1292.3	1400.1	1443.3	1384.4	1284.4	1127.6	976.6
12.5°	1125.6	1149.1	1243.3	1449.2	1676.6	1819.8	1878.6	1806.1	1649.2	1421.7	1182.5
15°	1415.8	1451.1	1592.3	1900.2	2168.8	2296.3	2315.9	2274.7	2092.4	1841.4	1519.8
17.5°	1825.7	1876.7	2096.3	2410.0	2604.2	2649.3	2643.4	2600.3	2466.9	2294.3	1990.4
20°	2315.9	2376.7	2592.4	2851.3	2870.9	2817.9	2788.5	2763.0	2717.9	2688.5	2451.2
22.5°	2810.1	2884.6	3110.1	3174.8	2998.3	2845.4	2772.8	2792.4	2859.1	3004.2	2908.1
25°	3302.3	3372.9	3584.7	3410.1	3057.2	2802.2	2710.1	2757.1	2916.0	3229.7	3353.3
27.5°	3876.8	3929.8	4055.3	3570.9	3067.0	2766.9	2676.7	2749.3	2943.4	3370.9	3841.5
30°	4474.9	4506.3	4445.5	3614.1	3033.6	2714.0	2643.4	2749.3	2990.5	3465.0	4208.2
32.5°	4914.2	4920.1	4722.0	3618.0	3016.0	2670.8	2612.0	2737.5	3035.6	3543.5	4563.2
35°	5367.2	5337.8	4986.8	3676.8	3063.0	2686.5	2635.5	2770.9	3106.2	3635.6	4875.0
37.5°	5826.1	5773.1	5282.9	3772.9	3184.6	2857.1	2825.8	2941.5	3219.9	3763.1	5218.2
40°	6296.7	6224.1	5590.7	3918.0	3455.2	3437.6	3545.4	3531.7	3531.7	3925.9	5571.1
42.5°	6871.3	6786.9	6045.7	4327.9	4086.7	4480.8	4775.0	4592.6	4255.3	4300.4	6030.0
45°	7630.1	7557.6	6834.0	5112.3	5077.0	5982.9	6379.0	6018.2	5178.9	5165.2	6796.7
47.5°	8844.0	8830.3	8091.0	6022.2	6288.8	7894.9	8659.7	7965.5	6232.0	6081.0	8247.9
50°	10550.0	10508.9	9657.8	7088.9	7730.2	10263.7	11628.6	10471.6	7504.6	7149.7	10191.2
52.5°	12471.8	12514.9	11852.1	8253.7	9261.7	12899.3	14799.5	13342.5	8887.1	8508.7	12636.5
55°	14281.8	14528.9	14354.3	9616.6	10757.9	15809.4	18282.2	16491.8	10599.1	10287.3	15378.0
57.5°	15697.6	16393.7	17617.4	11597.2	12516.9	19213.6	22170.8	19905.8	12597.3	13175.8	19109.7
60°	15776.0	16697.7	19539.1	15740.7	14779.9	22133.5	26053.5	23241.5	15738.8	18080.2	22033.5
62.5°	14593.6	15581.9	18288.0	17623.3	17244.8	24618.1	28045.8	25673.1	18829.3	20953.0	21166.8
65°	13240.5	14238.6	16891.8	15487.8	16958.5	24512.2	27539.9	25729.9	19109.7	18999.9	19615.6
67.5°	11195.2	12091.4	14493.6	13709.2	15630.9	23329.7	25202.4	24108.2	17605.6	17770.3	18044.9
70°	8171.4	9034.2	11263.8	11303.1	13650.3	21198.1	21655.0	21504.0	16213.3	16387.9	15603.5
72.5°	5902.5	6630.1	8553.8	9269.5	10897.1	17776.2	17460.5	18042.9	13911.1	14595.5	12532.6
75°	4243.5	4788.7	6275.1	8063.5	8638.1	13201.3	12499.2	13973.9	11161.9	12567.9	9422.5
77.5°	1721.7	1913.9	2468.9	5431.9	5677.0	8881.3	7651.7	10150.0	7957.6	8257.7	4567.1
80°	70.6	78.4	102.0	2804.2	3892.5	4996.6	4094.5	5426.0	5255.4	3325.8	1078.5
82.5°	7.8	7.8	17.6	807.9	1704.1	2757.1	1929.6	3125.8	2661.0	1409.9	490.2
85°	2.0	2.0	3.9	92.2	400.0	441.2	260.8	958.9	1237.4	576.5	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.8	17.6	19.6	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°	882.4	882.4	882.4	882.4	882.4	882.4	882.4	882.4	882.4	882.4	882.4
2.5°	888.3	878.5	866.8	855.0	849.1	833.4	827.5	823.6	819.7	821.6	821.6
5°	858.9	837.3	811.8	786.4	772.6	756.9	749.1	745.2	747.1	755.0	755.0
7.5°	855.0	813.8	758.9	725.6	709.9	698.1	690.3	686.3	688.3	698.1	702.0
10°	919.7	847.1	749.1	692.2	674.6	662.8	655.0	649.1	645.2	653.0	655.0
12.5°	1058.9	958.9	796.2	688.3	656.9	641.2	635.4	623.6	617.7	621.6	623.6
15°	1347.2	1174.6	890.3	704.0	641.2	623.6	613.8	604.0	594.2	592.2	594.2
17.5°	1723.7	1476.6	1033.4	741.2	629.5	607.9	594.2	580.4	566.7	564.8	562.8
20°	2190.4	1847.2	1233.5	800.1	619.7	594.2	574.6	555.0	537.3	531.4	531.4
22.5°	2615.9	2294.3	1490.3	872.6	605.9	574.6	551.0	527.5	507.9	498.1	496.1
25°	3135.6	2768.9	1798.2	957.0	586.3	549.1	523.6	500.0	480.4	468.7	464.8
27.5°	3659.2	3268.9	2147.3	1066.8	562.8	523.6	500.0	478.5	456.9	443.2	439.3
30°	4167.1	3808.2	2539.5	1204.0	545.2	498.1	478.5	456.9	437.3	415.7	409.8
32.5°	4712.2	4359.2	2978.7	1357.0	531.4	480.4	458.9	439.3	413.8	394.2	384.4
35°	5237.8	4927.9	3463.1	1506.0	517.7	464.8	441.2	421.6	394.2	372.6	358.9
37.5°	5767.2	5506.4	3969.0	1596.2	498.1	443.2	421.6	405.9	374.5	349.1	333.4
40°	6328.1	6104.5	4516.1	1559.0	480.4	419.6	407.9	390.2	354.9	325.5	305.9
42.5°	6943.8	6675.2	5073.0	1415.8	464.8	400.0	388.3	370.6	337.3	302.0	276.5
45°	7718.4	7300.7	5529.9	1200.1	472.6	380.4	356.9	353.0	321.6	276.5	245.1
47.5°	9049.9	8261.6	5884.9	1060.9	525.5	358.9	331.4	341.2	307.9	251.0	215.7
50°	11087.3	9853.9	6216.3	1051.1	605.9	349.1	307.9	333.4	294.1	225.5	190.2
52.5°	13028.7	11471.7	6428.1	1137.4	676.5	374.5	284.3	323.6	284.3	207.9	172.6
55°	14885.8	12405.1	6049.6	1200.1	743.2	451.0	266.7	307.9	272.6	198.1	166.7
57.5°	16887.9	12820.8	4763.2	1327.6	790.3	515.7	270.6	284.3	256.9	192.2	164.7
60°	17486.0	12289.4	2874.8	1494.3	764.8	535.3	300.0	253.0	235.3	180.4	158.8
62.5°	16556.5	11028.5	1696.2	1360.9	743.2	505.9	343.2	233.4	213.7	164.7	147.1
65°	15166.2	9316.6	1106.0	1149.1	788.3	451.0	364.7	223.6	194.1	149.0	129.4
67.5°	13577.8	7504.6	774.6	678.5	727.5	405.9	307.9	221.6	174.5	125.5	105.9
70°	11436.4	5620.2	545.2	449.1	605.9	360.8	239.2	215.7	153.0	102.0	82.4
72.5°	8836.1	3518.0	405.9	290.2	431.4	294.1	190.2	182.4	123.5	84.3	62.8
75°	6516.3	2006.1	286.3	209.8	284.3	223.6	141.2	129.4	105.9	80.4	56.9
77.5°	3402.3	1004.0	178.4	160.8	162.8	139.2	102.0	94.1	98.0	80.4	52.9
80°	653.0	200.0	107.9	117.7	88.2	88.2	74.5	78.4	86.3	64.7	45.1
82.5°	272.6	43.1	58.8	66.7	54.9	60.8	60.8	62.8	60.8	47.1	33.3
85°	0.0	0.0	25.5	27.5	37.3	37.3	31.4	31.4	31.4	27.5	19.6
87.5°	0.0	0.0	0.0	0.0	2.0	5.9	11.8	13.7	15.7	11.8	7.8
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°	882.4	882.4	882.4	882.4	882.4	882.4	882.4	882.4	882.4	882.4	882.4
2.5°	819.7	815.8	821.6	825.6	829.5	829.5	825.6	821.6	815.8	821.6	815.8
5°	756.9	762.8	772.6	776.5	780.5	772.6	768.7	756.9	747.1	749.1	745.2
7.5°	707.9	713.8	725.6	733.4	733.4	729.5	717.7	706.0	690.3	690.3	688.3
10°	662.8	670.7	684.4	694.2	698.1	694.2	682.4	666.7	653.0	653.0	647.1
12.5°	625.6	635.4	651.0	664.8	668.7	664.8	653.0	637.3	621.6	621.6	617.7
15°	594.2	605.9	623.6	639.3	645.2	639.3	625.6	605.9	590.3	592.2	586.3
17.5°	564.8	574.6	598.1	615.7	621.6	615.7	598.1	572.6	556.9	560.8	556.9
20°	531.4	543.2	566.7	586.3	592.2	586.3	566.7	539.3	523.6	523.6	525.5
22.5°	496.1	507.9	531.4	545.2	553.0	547.1	527.5	502.0	486.3	486.3	488.3
25°	464.8	470.6	488.3	502.0	504.0	498.1	482.4	462.8	451.0	456.9	458.9
27.5°	435.3	435.3	443.2	451.0	449.1	443.2	437.3	421.6	419.6	425.5	431.4
30°	404.0	394.2	390.2	384.4	382.4	380.4	386.3	386.3	390.2	398.1	404.0
32.5°	376.5	356.9	339.2	321.6	311.8	319.6	335.3	349.1	362.8	374.5	380.4
35°	345.1	313.8	284.3	260.8	245.1	256.9	282.4	307.9	331.4	347.1	356.9
37.5°	313.8	268.7	233.4	203.9	192.2	202.0	229.4	264.7	300.0	319.6	333.4
40°	280.4	223.6	182.4	158.8	147.1	156.9	184.3	219.6	266.7	292.2	309.8
42.5°	247.1	184.3	147.1	123.5	117.7	123.5	145.1	180.4	231.4	262.8	286.3
45°	213.7	153.0	117.7	100.0	94.1	100.0	117.7	147.1	198.1	233.4	260.8
47.5°	184.3	129.4	98.0	82.4	78.4	84.3	98.0	123.5	166.7	202.0	233.4
50°	160.8	113.7	84.3	70.6	66.7	72.6	84.3	103.9	141.2	172.6	205.9
52.5°	145.1	105.9	74.5	60.8	58.8	62.8	72.6	88.2	119.6	147.1	178.4
55°	141.2	105.9	68.6	54.9	52.9	56.9	64.7	76.5	103.9	127.5	154.9
57.5°	145.1	113.7	64.7	47.1	45.1	49.0	56.9	66.7	90.2	109.8	135.3
60°	145.1	115.7	56.9	37.3	35.3	39.2	47.1	58.8	80.4	96.1	117.7
62.5°	131.4	105.9	47.1	29.4	25.5	29.4	39.2	49.0	70.6	86.3	103.9
65°	113.7	90.2	39.2	21.6	17.6	21.6	31.4	41.2	60.8	74.5	94.1
67.5°	92.2	68.6	29.4	15.7	11.8	15.7	23.5	33.3	51.0	64.7	84.3
70°	68.6	49.0	23.5	13.7	11.8	13.7	21.6	31.4	45.1	58.8	78.4
72.5°	51.0	33.3	19.6	13.7	9.8	13.7	19.6	29.4	43.1	56.9	74.5
75°	43.1	27.5	17.6	11.8	9.8	11.8	17.6	27.5	39.2	52.9	70.6
77.5°	41.2	25.5	15.7	9.8	7.8	9.8	15.7	23.5	35.3	49.0	68.6
80°	35.3	21.6	13.7	7.8	5.9	7.8	13.7	19.6	27.5	37.3	52.9
82.5°	27.5	17.6	9.8	3.9	2.0	3.9	9.8	11.8	17.6	21.6	31.4
85°	17.6	9.8	3.9	0.0	0.0	0.0	3.9	7.8	7.8	9.8	15.7
87.5°	7.8	2.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	3.9	5.9
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	882.4	882.4	882.4	882.4	882.4	882.4	882.4	882.4	882.4	882.4
2.5°	827.5	829.5	833.4	839.3	853.0	864.8	876.6	892.2	900.1	900.1
5°	749.1	751.1	753.0	760.9	780.5	796.2	821.6	853.0	868.7	872.6
7.5°	688.3	692.2	696.1	702.0	721.6	743.2	776.5	835.4	864.8	870.7
10°	653.0	658.9	666.7	678.5	696.1	719.7	776.5	882.4	931.5	941.3
12.5°	625.6	635.4	643.2	656.9	678.5	715.8	829.5	1015.8	1102.1	1125.6
15°	598.1	609.9	621.6	635.4	658.9	729.5	931.5	1255.0	1398.2	1415.8
17.5°	570.6	584.4	600.1	615.7	645.2	762.8	1092.3	1586.4	1786.4	1825.7
20°	539.3	556.9	578.5	598.1	631.4	815.8	1315.8	1980.6	2231.6	2315.9
22.5°	505.9	527.5	553.0	578.5	615.7	880.5	1586.4	2404.2	2755.2	2810.1
25°	478.5	500.0	523.6	549.1	590.3	958.9	1913.9	2929.7	3249.3	3302.3
27.5°	453.0	474.6	496.1	519.7	564.8	1060.9	2308.1	3488.6	3821.9	3876.8
30°	425.5	451.0	472.6	496.1	541.2	1186.4	2763.0	4108.2	4424.0	4474.9
32.5°	402.0	427.5	449.1	472.6	523.6	1323.7	3241.5	4657.3	4914.2	4914.2
35°	382.4	409.8	425.5	456.9	509.9	1411.9	3694.5	5180.9	5375.0	5367.2
37.5°	360.8	394.2	405.9	427.5	492.2	1421.7	4120.0	5733.9	5877.0	5826.1
40°	339.2	374.5	392.2	404.0	472.6	1341.3	4586.7	6241.8	6363.4	6296.7
42.5°	319.6	347.1	372.6	386.3	460.8	1200.1	4961.3	6785.0	6930.1	6871.3
45°	300.0	323.6	339.2	364.7	468.7	1102.1	5282.9	7418.4	7673.3	7630.1
47.5°	280.4	300.0	309.8	349.1	521.6	1057.0	5479.0	8398.9	8879.3	8844.0
50°	258.8	282.4	282.4	345.1	600.1	1072.7	5649.6	9818.6	10561.8	10550.0
52.5°	237.3	262.8	258.8	374.5	660.8	1145.2	5843.7	11071.7	12363.9	12471.8
55°	215.7	239.2	243.2	433.4	696.1	1208.0	5092.6	11599.2	13903.3	14281.8
57.5°	192.2	205.9	253.0	478.5	684.4	1390.3	3488.6	11695.2	14885.8	15697.6
60°	166.7	178.4	286.3	468.7	647.1	1284.4	2196.3	10832.4	14746.5	15776.0
62.5°	145.1	164.7	302.0	413.8	658.9	1113.8	1400.1	9232.3	13418.9	14593.6
65°	127.5	158.8	274.5	374.5	666.7	755.0	945.2	7510.5	12122.7	13240.5
67.5°	113.7	176.5	225.5	333.4	572.6	531.4	649.1	5835.9	10193.1	11195.2
70°	103.9	180.4	184.3	286.3	443.2	341.2	427.5	3927.8	7026.2	8171.4
72.5°	94.1	133.3	139.2	229.4	286.3	207.9	276.5	2247.3	5122.1	5902.5
75°	90.2	90.2	96.1	149.0	158.8	151.0	178.4	1341.3	3672.9	4243.5
77.5°	84.3	68.6	60.8	96.1	86.3	107.9	105.9	596.1	1592.3	1721.7
80°	66.7	49.0	41.2	60.8	58.8	72.6	62.8	49.0	72.6	70.6
82.5°	41.2	31.4	29.4	37.3	33.3	37.3	29.4	7.8	7.8	7.8
85°	19.6	17.6	15.7	15.7	17.6	15.7	11.8	3.9	2.0	2.0
87.5°	9.8	9.8	7.8	5.9	7.8	7.8	5.9	2.0	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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