

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: P639860

Luminaire Tested: GWS-SA5C-760-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639860
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-SA5C-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14909.4 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

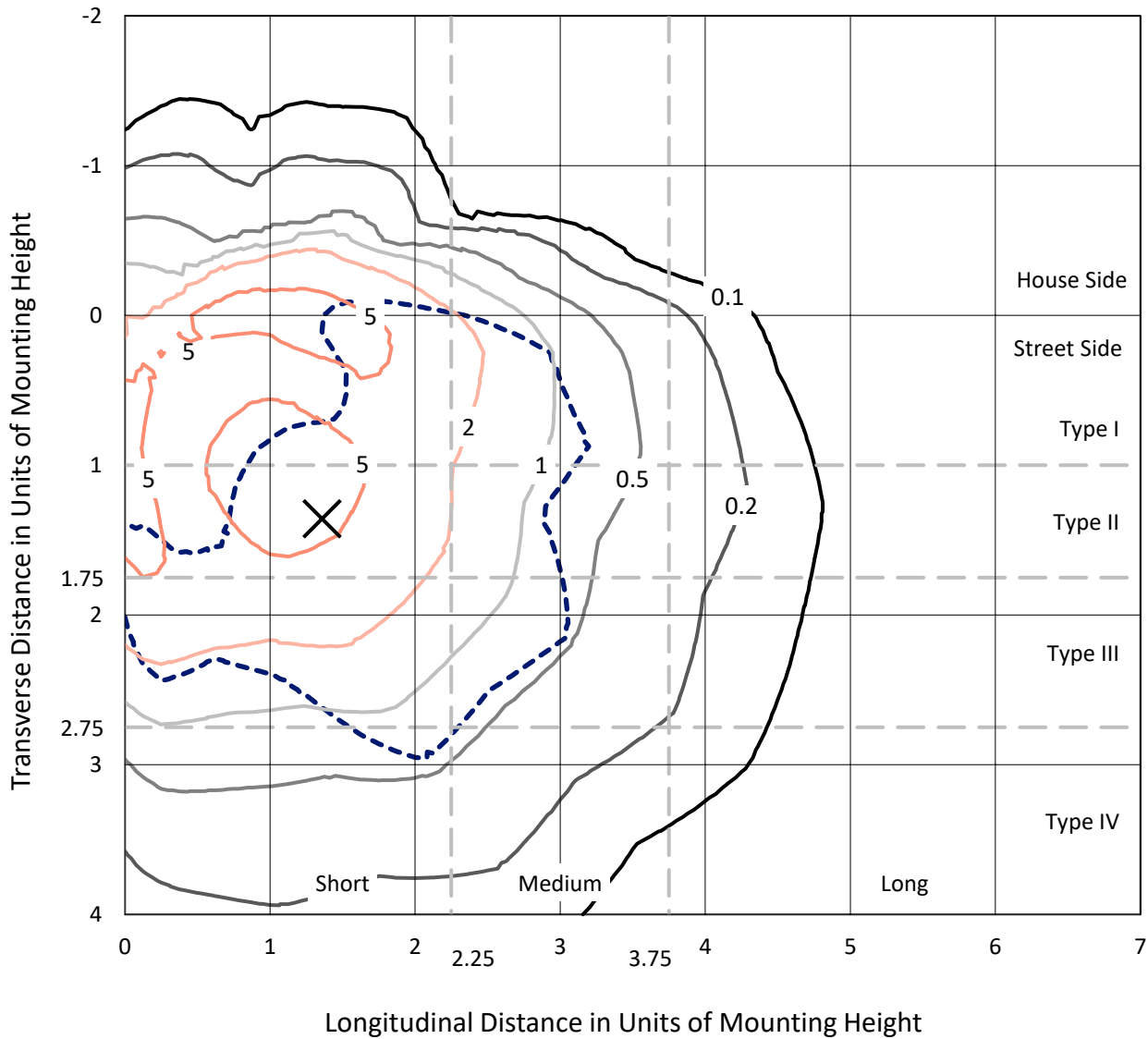
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

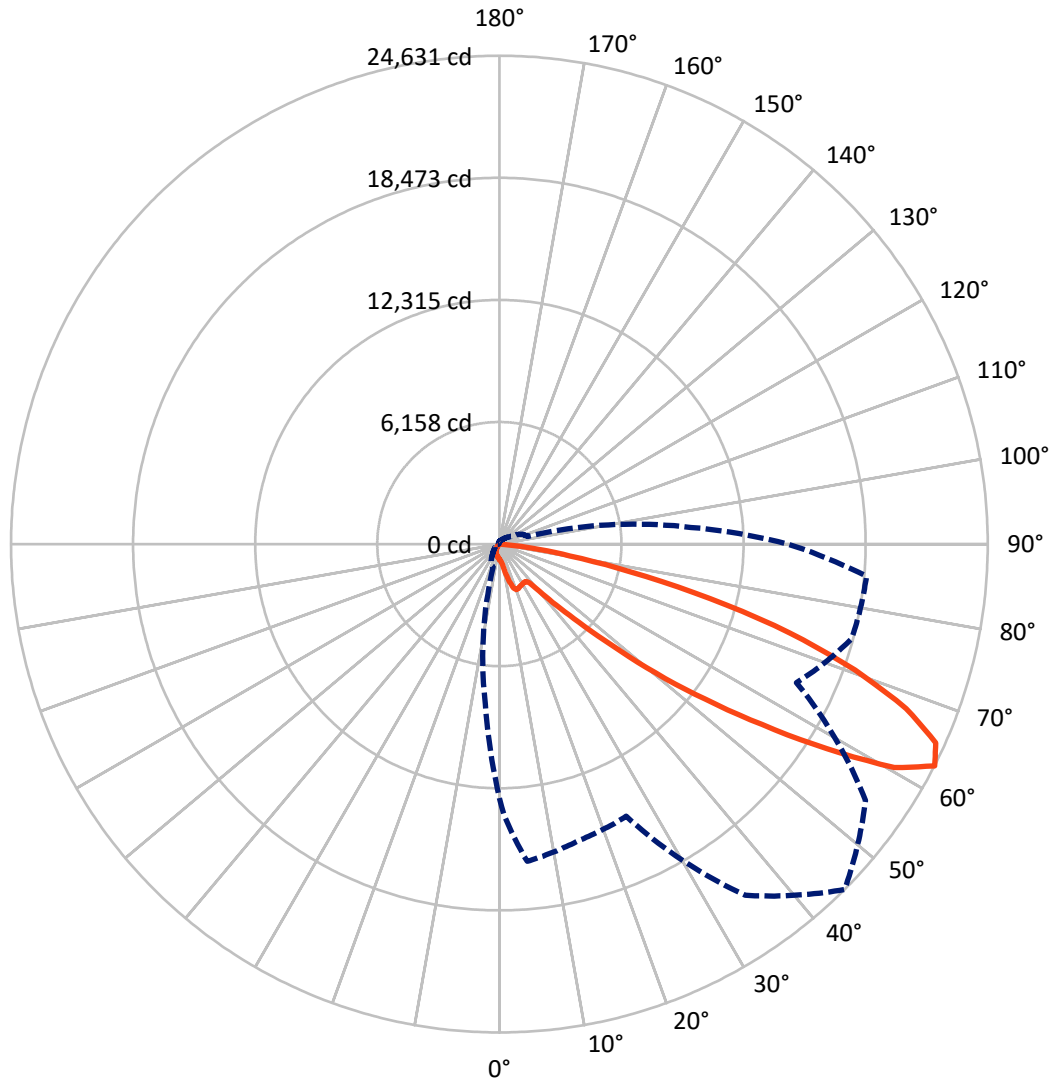
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.6 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	1839.8	0.0	1839.8
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	13069.6	0.0	13069.6
	% Fixture	87.7	0.0	87.7
Total	Lumens	14909.4	0.0	14909.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.8	0.5
10°-20°	259.9	1.7
20°-30°	565.1	3.8
30°-40°	927.5	6.2
40°-50°	1705.0	11.4
50°-60°	3661.5	24.6
60°-70°	4918.0	33.0
70°-80°	2560.9	17.2
80°-90°	242.8	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°	14909.4	100.0
0°-180°	14909.4	100.0

Coefficient of Utilization



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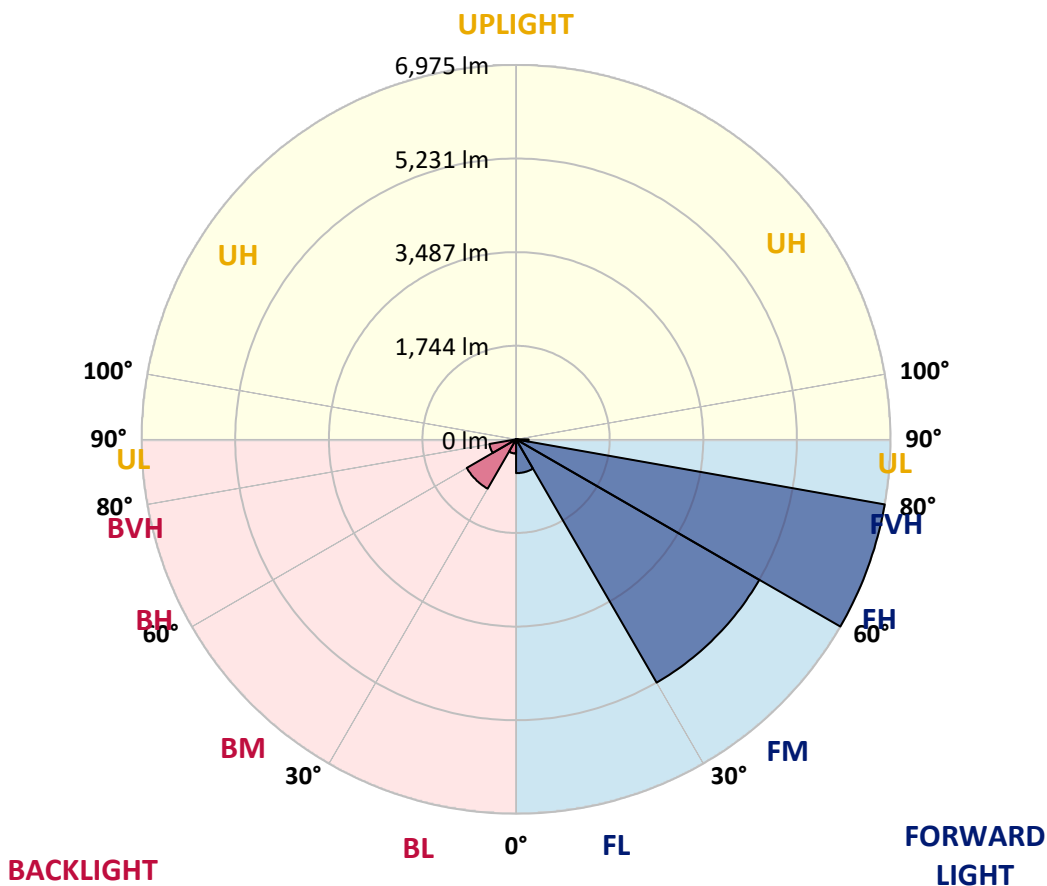
CATALOG NUMBER: GWS-SA5C-760-U-SLR-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	629.8	4.2			
FM (30°-60°)	5233.0	35.1			
FH (60°-80°)	6974.7	46.8			G3/7500
FVH (80°-90°)	232.0	1.6			G3/500
BL (0°-30°)	263.9	1.8	B1/500		
BM (30°-60°)	1060.9	7.1	B2/2500		
BH (60°-80°)	504.1	3.4	B2/1000		G2/1000
BVH (80°-90°)	10.8	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0
2.5°	790.5	793.9	797.4	809.4	818.0	824.9	826.6	821.5	809.4	797.4	780.1
5°	766.4	769.8	781.9	814.6	847.3	873.1	881.8	876.6	847.3	809.4	769.8
7.5°	764.6	771.5	800.8	869.7	940.3	993.7	1007.5	995.4	940.3	864.5	783.6
10°	826.6	838.7	881.8	1005.7	1134.9	1229.6	1267.5	1215.9	1128.0	990.2	857.6
12.5°	988.5	1009.2	1091.9	1272.7	1472.5	1598.2	1649.8	1586.1	1448.3	1248.6	1038.5
15°	1243.4	1274.4	1398.4	1668.8	1904.7	2016.7	2033.9	1997.7	1837.6	1617.1	1334.7
17.5°	1603.3	1648.1	1841.0	2116.5	2287.0	2326.7	2321.5	2283.6	2166.5	2014.9	1748.0
20°	2033.9	2087.3	2276.7	2504.0	2521.3	2474.8	2448.9	2426.5	2386.9	2361.1	2152.7
22.5°	2467.9	2533.3	2731.4	2788.2	2633.2	2498.9	2435.1	2452.4	2510.9	2638.4	2554.0
25°	2900.1	2962.1	3148.1	2994.9	2684.9	2461.0	2380.0	2421.4	2560.9	2836.4	2944.9
27.5°	3404.7	3451.2	3561.4	3136.1	2693.5	2430.0	2350.8	2414.5	2585.0	2960.4	3373.7
30°	3930.0	3957.5	3904.2	3174.0	2664.2	2383.5	2321.5	2414.5	2626.3	3043.1	3695.8
32.5°	4315.8	4320.9	4147.0	3177.4	2648.7	2345.6	2293.9	2404.2	2665.9	3112.0	4007.5
35°	4713.6	4687.7	4379.5	3229.1	2690.0	2359.4	2314.6	2433.4	2727.9	3192.9	4281.3
37.5°	5116.6	5070.1	4639.5	3313.5	2796.8	2509.2	2481.6	2583.3	2827.8	3304.8	4582.7
40°	5529.9	5466.2	4909.9	3440.9	3034.5	3019.0	3113.7	3101.6	3101.6	3447.8	4892.7
42.5°	6034.5	5960.4	5309.5	3800.8	3589.0	3935.2	4193.5	4033.3	3737.1	3776.7	5295.7
45°	6701.0	6637.2	6001.8	4489.7	4458.7	5254.3	5602.2	5285.3	4548.3	4536.2	5969.0
47.5°	7767.0	7754.9	7105.7	5288.8	5523.0	6933.5	7605.1	6995.5	5473.1	5340.5	7243.4
50°	9265.3	9229.1	8481.7	6225.6	6788.8	9013.8	10212.5	9196.4	6590.7	6279.0	8950.1
52.5°	10953.0	10990.9	10408.8	7248.6	8133.8	11328.4	12997.2	11717.6	7804.9	7472.5	11097.7
55°	12542.6	12759.6	12606.3	8445.5	9447.8	13884.1	16055.8	14483.5	9308.3	9034.5	13505.3
57.5°	13786.0	14397.3	15472.0	10184.9	10992.6	16873.8	19470.9	17481.8	11063.2	11571.3	16782.6
60°	13854.9	14664.3	17159.7	13823.9	12980.0	19438.1	22880.8	20411.2	13822.1	15878.4	19350.3
62.5°	12816.4	13684.4	16061.0	15477.1	15144.8	21620.1	24630.5	22546.7	16536.3	18401.4	18589.1
65°	11628.1	12504.7	14834.8	13601.7	14893.3	21527.1	24186.2	22596.6	16782.6	16686.1	17226.9
67.5°	9831.9	10618.9	12728.6	12039.7	13727.4	20488.7	22133.3	21172.4	15461.6	15606.3	15847.4
70°	7176.3	7934.0	9892.1	9926.6	11988.0	18616.7	19017.9	18885.3	14238.9	14392.2	13703.3
72.5°	5183.7	5822.7	7512.1	8140.7	9570.1	15611.5	15334.2	15845.7	12217.1	12818.1	11006.4
75°	3726.8	4205.5	5510.9	7081.6	7586.2	11593.7	10977.1	12272.2	9802.6	11037.4	8275.0
77.5°	1512.1	1680.8	2168.2	4770.4	4985.7	7799.7	6719.9	8914.0	6988.6	7252.1	4010.9
80°	62.0	68.9	89.6	2462.7	3418.5	4388.1	3595.9	4765.2	4615.4	2920.8	947.2
82.5°	6.9	6.9	15.5	709.5	1496.6	2421.4	1694.6	2745.1	2337.0	1238.2	430.5
85°	1.7	1.7	3.4	80.9	351.3	387.5	229.0	842.1	1086.7	506.3	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	15.5	17.2	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°	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0
2.5°	780.1	771.5	761.2	750.9	745.7	731.9	726.8	723.3	719.9	721.6	721.6
5°	754.3	735.4	713.0	690.6	678.5	664.8	657.9	654.4	656.1	663.0	663.0
7.5°	750.9	714.7	666.5	637.2	623.4	613.1	606.2	602.8	604.5	613.1	616.5
10°	807.7	744.0	657.9	607.9	592.4	582.1	575.2	570.0	566.6	573.5	575.2
12.5°	930.0	842.1	699.2	604.5	576.9	563.1	558.0	547.7	542.5	545.9	547.7
15°	1183.1	1031.6	781.9	618.3	563.1	547.7	539.0	530.4	521.8	520.1	521.8
17.5°	1513.8	1296.8	907.6	651.0	552.8	533.9	521.8	509.8	497.7	496.0	494.3
20°	1923.7	1622.3	1083.2	702.6	544.2	521.8	504.6	487.4	471.9	466.7	466.7
22.5°	2297.4	2014.9	1308.8	766.4	532.2	504.6	483.9	463.3	446.0	437.4	435.7
25°	2753.8	2431.7	1579.2	840.4	514.9	482.2	459.8	439.2	421.9	411.6	408.2
27.5°	3213.6	2870.9	1885.8	936.9	494.3	459.8	439.2	420.2	401.3	389.2	385.8
30°	3659.6	3344.5	2230.2	1057.4	478.8	437.4	420.2	401.3	384.0	365.1	359.9
32.5°	4138.4	3828.4	2616.0	1191.7	466.7	421.9	403.0	385.8	363.4	346.2	337.5
35°	4599.9	4327.8	3041.4	1322.6	454.7	408.2	387.5	370.3	346.2	327.2	315.2
37.5°	5064.9	4835.9	3485.7	1401.8	437.4	389.2	370.3	356.5	328.9	306.5	292.8
40°	5557.4	5361.1	3966.2	1369.1	421.9	368.5	358.2	342.7	311.7	285.9	268.7
42.5°	6098.2	5862.3	4455.3	1243.4	408.2	351.3	341.0	325.5	296.2	265.2	242.8
45°	6778.5	6411.6	4856.5	1054.0	415.0	334.1	313.4	310.0	282.4	242.8	215.3
47.5°	7947.8	7255.5	5168.2	931.7	461.5	315.2	291.0	299.7	270.4	220.4	189.4
50°	9737.2	8653.9	5459.3	923.1	532.2	306.5	270.4	292.8	258.3	198.0	167.1
52.5°	11442.1	10074.7	5645.3	998.9	594.1	328.9	249.7	284.2	249.7	182.6	151.6
55°	13073.0	10894.5	5312.9	1054.0	652.7	396.1	234.2	270.4	239.4	173.9	146.4
57.5°	14831.3	11259.6	4183.2	1165.9	694.0	452.9	237.7	249.7	225.6	168.8	144.7
60°	15356.6	10792.8	2524.7	1312.3	671.6	470.2	263.5	222.2	206.7	158.4	139.5
62.5°	14540.3	9685.5	1489.7	1195.2	652.7	444.3	301.4	204.9	187.7	144.7	129.2
65°	13319.3	8182.0	971.3	1009.2	692.3	396.1	320.3	196.3	170.5	130.9	113.7
67.5°	11924.3	6590.7	680.3	595.9	638.9	356.5	270.4	194.6	153.3	110.2	93.0
70°	10043.7	4935.7	478.8	394.4	532.2	316.9	210.1	189.4	134.3	89.6	72.3
72.5°	7760.1	3089.6	356.5	254.9	378.9	258.3	167.1	160.2	108.5	74.1	55.1
75°	5722.8	1761.8	251.4	184.3	249.7	196.3	124.0	113.7	93.0	70.6	49.9
77.5°	2988.0	881.8	156.7	141.2	142.9	122.3	89.6	82.7	86.1	70.6	46.5
80°	573.5	175.7	94.7	103.3	77.5	77.5	65.4	68.9	75.8	56.8	39.6
82.5°	239.4	37.9	51.7	58.6	48.2	53.4	53.4	55.1	53.4	41.3	29.3
85°	0.0	0.0	22.4	24.1	32.7	32.7	27.6	27.6	27.6	24.1	17.2
87.5°	0.0	0.0	0.0	0.0	1.7	5.2	10.3	12.1	13.8	10.3	6.9
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°	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0
2.5°	719.9	716.4	721.6	725.0	728.5	728.5	725.0	721.6	716.4	721.6	716.4
5°	664.8	669.9	678.5	682.0	685.4	678.5	675.1	664.8	656.1	657.9	654.4
7.5°	621.7	626.9	637.2	644.1	644.1	640.6	630.3	620.0	606.2	606.2	604.5
10°	582.1	589.0	601.0	609.6	613.1	609.6	599.3	585.5	573.5	573.5	568.3
12.5°	549.4	558.0	571.8	583.8	587.3	583.8	573.5	559.7	545.9	545.9	542.5
15°	521.8	532.2	547.7	561.4	566.6	561.4	549.4	532.2	518.4	520.1	514.9
17.5°	496.0	504.6	525.3	540.8	545.9	540.8	525.3	502.9	489.1	492.5	489.1
20°	466.7	477.0	497.7	514.9	520.1	514.9	497.7	473.6	459.8	459.8	461.5
22.5°	435.7	446.0	466.7	478.8	485.7	480.5	463.3	440.9	427.1	427.1	428.8
25°	408.2	413.3	428.8	440.9	442.6	437.4	423.7	406.4	396.1	401.3	403.0
27.5°	382.3	382.3	389.2	396.1	394.4	389.2	384.0	370.3	368.5	373.7	378.9
30°	354.8	346.2	342.7	337.5	335.8	334.1	339.3	339.3	342.7	349.6	354.8
32.5°	330.7	313.4	297.9	282.4	273.8	280.7	294.5	306.5	318.6	328.9	334.1
35°	303.1	275.5	249.7	229.0	215.3	225.6	248.0	270.4	291.0	304.8	313.4
37.5°	275.5	235.9	204.9	179.1	168.8	177.4	201.5	232.5	263.5	280.7	292.8
40°	246.3	196.3	160.2	139.5	129.2	137.8	161.9	192.9	234.2	256.6	272.1
42.5°	217.0	161.9	129.2	108.5	103.3	108.5	127.4	158.4	203.2	230.8	251.4
45°	187.7	134.3	103.3	87.8	82.7	87.8	103.3	129.2	173.9	204.9	229.0
47.5°	161.9	113.7	86.1	72.3	68.9	74.1	86.1	108.5	146.4	177.4	204.9
50°	141.2	99.9	74.1	62.0	58.6	63.7	74.1	91.3	124.0	151.6	180.8
52.5°	127.4	93.0	65.4	53.4	51.7	55.1	63.7	77.5	105.1	129.2	156.7
55°	124.0	93.0	60.3	48.2	46.5	49.9	56.8	67.2	91.3	111.9	136.1
57.5°	127.4	99.9	56.8	41.3	39.6	43.1	49.9	58.6	79.2	96.4	118.8
60°	127.4	101.6	49.9	32.7	31.0	34.4	41.3	51.7	70.6	84.4	103.3
62.5°	115.4	93.0	41.3	25.8	22.4	25.8	34.4	43.1	62.0	75.8	91.3
65°	99.9	79.2	34.4	18.9	15.5	18.9	27.6	36.2	53.4	65.4	82.7
67.5°	80.9	60.3	25.8	13.8	10.3	13.8	20.7	29.3	44.8	56.8	74.1
70°	60.3	43.1	20.7	12.1	10.3	12.1	18.9	27.6	39.6	51.7	68.9
72.5°	44.8	29.3	17.2	12.1	8.6	12.1	17.2	25.8	37.9	49.9	65.4
75°	37.9	24.1	15.5	10.3	8.6	10.3	15.5	24.1	34.4	46.5	62.0
77.5°	36.2	22.4	13.8	8.6	6.9	8.6	13.8	20.7	31.0	43.1	60.3
80°	31.0	18.9	12.1	6.9	5.2	6.9	12.1	17.2	24.1	32.7	46.5
82.5°	24.1	15.5	8.6	3.4	1.7	3.4	8.6	10.3	15.5	18.9	27.6
85°	15.5	8.6	3.4	0.0	0.0	0.0	3.4	6.9	6.9	8.6	13.8
87.5°	6.9	1.7	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.4	5.2
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°	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0
2.5°	726.8	728.5	731.9	737.1	749.1	759.5	769.8	783.6	790.5	790.5
5°	657.9	659.6	661.3	668.2	685.4	699.2	721.6	749.1	762.9	766.4
7.5°	604.5	607.9	611.4	616.5	633.8	652.7	682.0	733.6	759.5	764.6
10°	573.5	578.6	585.5	595.9	611.4	632.0	682.0	775.0	818.0	826.6
12.5°	549.4	558.0	564.9	576.9	595.9	628.6	728.5	892.1	967.9	988.5
15°	525.3	535.6	545.9	558.0	578.6	640.6	818.0	1102.2	1227.9	1243.4
17.5°	501.2	513.2	527.0	540.8	566.6	669.9	959.2	1393.2	1568.9	1603.3
20°	473.6	489.1	508.0	525.3	554.5	716.4	1155.6	1739.4	1959.8	2033.9
22.5°	444.3	463.3	485.7	508.0	540.8	773.3	1393.2	2111.4	2419.6	2467.9
25°	420.2	439.2	459.8	482.2	518.4	842.1	1680.8	2572.9	2853.6	2900.1
27.5°	397.8	416.8	435.7	456.4	496.0	931.7	2027.0	3063.7	3356.5	3404.7
30°	373.7	396.1	415.0	435.7	475.3	1041.9	2426.5	3607.9	3885.2	3930.0
32.5°	353.0	375.4	394.4	415.0	459.8	1162.5	2846.7	4090.2	4315.8	4315.8
35°	335.8	359.9	373.7	401.3	447.8	1240.0	3244.6	4550.0	4720.5	4713.6
37.5°	316.9	346.2	356.5	375.4	432.3	1248.6	3618.3	5035.6	5161.3	5116.6
40°	297.9	328.9	344.4	354.8	415.0	1178.0	4028.2	5481.7	5588.4	5529.9
42.5°	280.7	304.8	327.2	339.3	404.7	1054.0	4357.1	5958.7	6086.2	6034.5
45°	263.5	284.2	297.9	320.3	411.6	967.9	4639.5	6515.0	6738.9	6701.0
47.5°	246.3	263.5	272.1	306.5	458.1	928.2	4811.7	7376.1	7798.0	7767.0
50°	227.3	248.0	248.0	303.1	527.0	942.0	4961.6	8622.9	9275.6	9265.3
52.5°	208.4	230.8	227.3	328.9	580.4	1005.7	5132.1	9723.4	10858.3	10953.0
55°	189.4	210.1	213.5	380.6	611.4	1060.9	4472.5	10186.6	12210.2	12542.6
57.5°	168.8	180.8	222.2	420.2	601.0	1221.0	3063.7	10271.0	13073.0	13786.0
60°	146.4	156.7	251.4	411.6	568.3	1128.0	1928.8	9513.3	12950.7	13854.9
62.5°	127.4	144.7	265.2	363.4	578.6	978.2	1229.6	8108.0	11784.8	12816.4
65°	111.9	139.5	241.1	328.9	585.5	663.0	830.1	6595.9	10646.5	11628.1
67.5°	99.9	155.0	198.0	292.8	502.9	466.7	570.0	5125.2	8951.8	9831.9
70°	91.3	158.4	161.9	251.4	389.2	299.7	375.4	3449.5	6170.5	7176.3
72.5°	82.7	117.1	122.3	201.5	251.4	182.6	242.8	1973.6	4498.3	5183.7
75°	79.2	79.2	84.4	130.9	139.5	132.6	156.7	1178.0	3225.6	3726.8
77.5°	74.1	60.3	53.4	84.4	75.8	94.7	93.0	523.5	1398.4	1512.1
80°	58.6	43.1	36.2	53.4	51.7	63.7	55.1	43.1	63.7	62.0
82.5°	36.2	27.6	25.8	32.7	29.3	32.7	25.8	6.9	6.9	6.9
85°	17.2	15.5	13.8	13.8	15.5	13.8	10.3	3.4	1.7	1.7
87.5°	8.6	8.6	6.9	5.2	6.9	6.9	5.2	1.7	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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