

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: P637385

Luminaire Tested: GWS-SA4C-760-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637385
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-SA4C-760-U-SLR-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12153.9 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

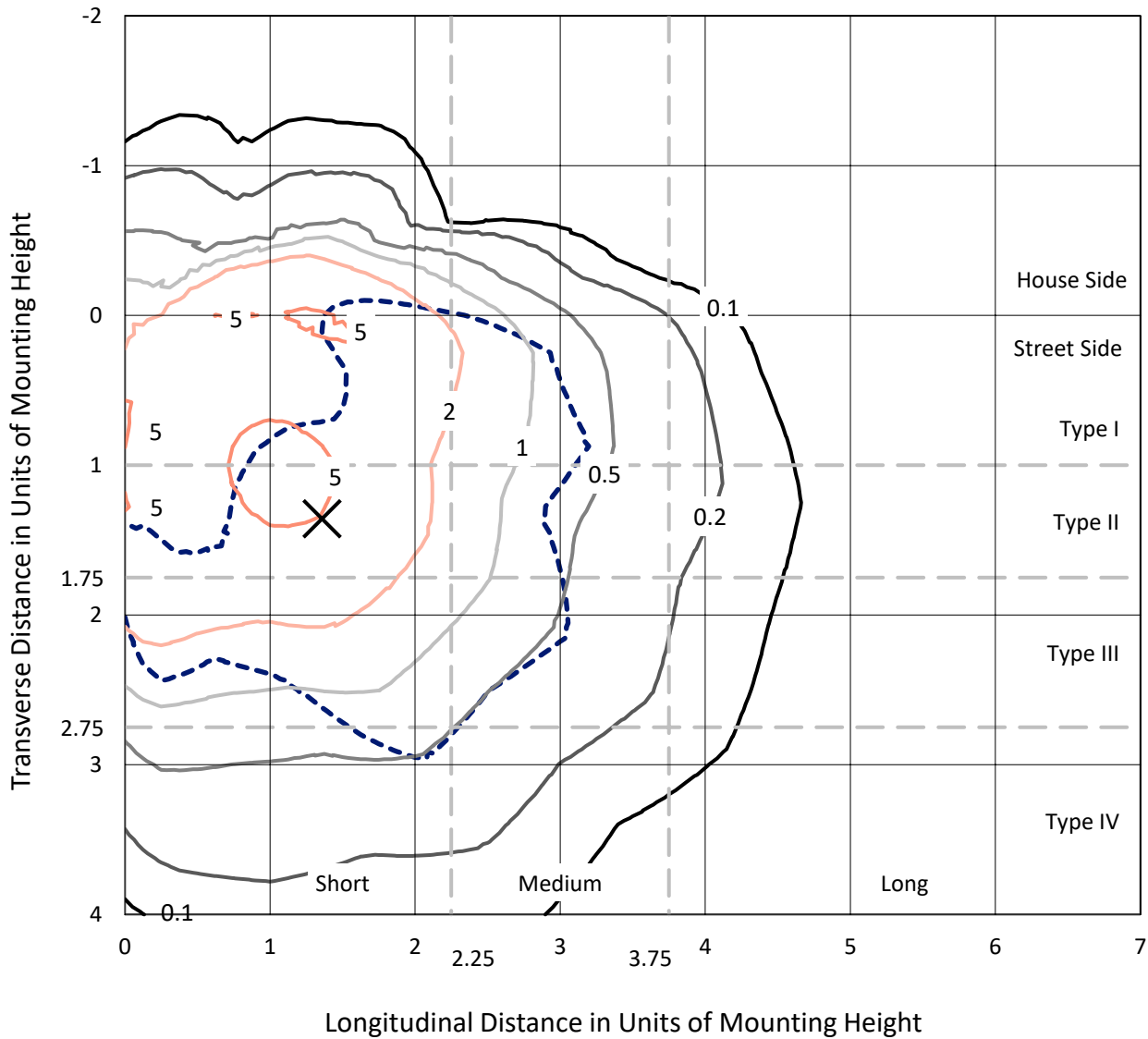
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

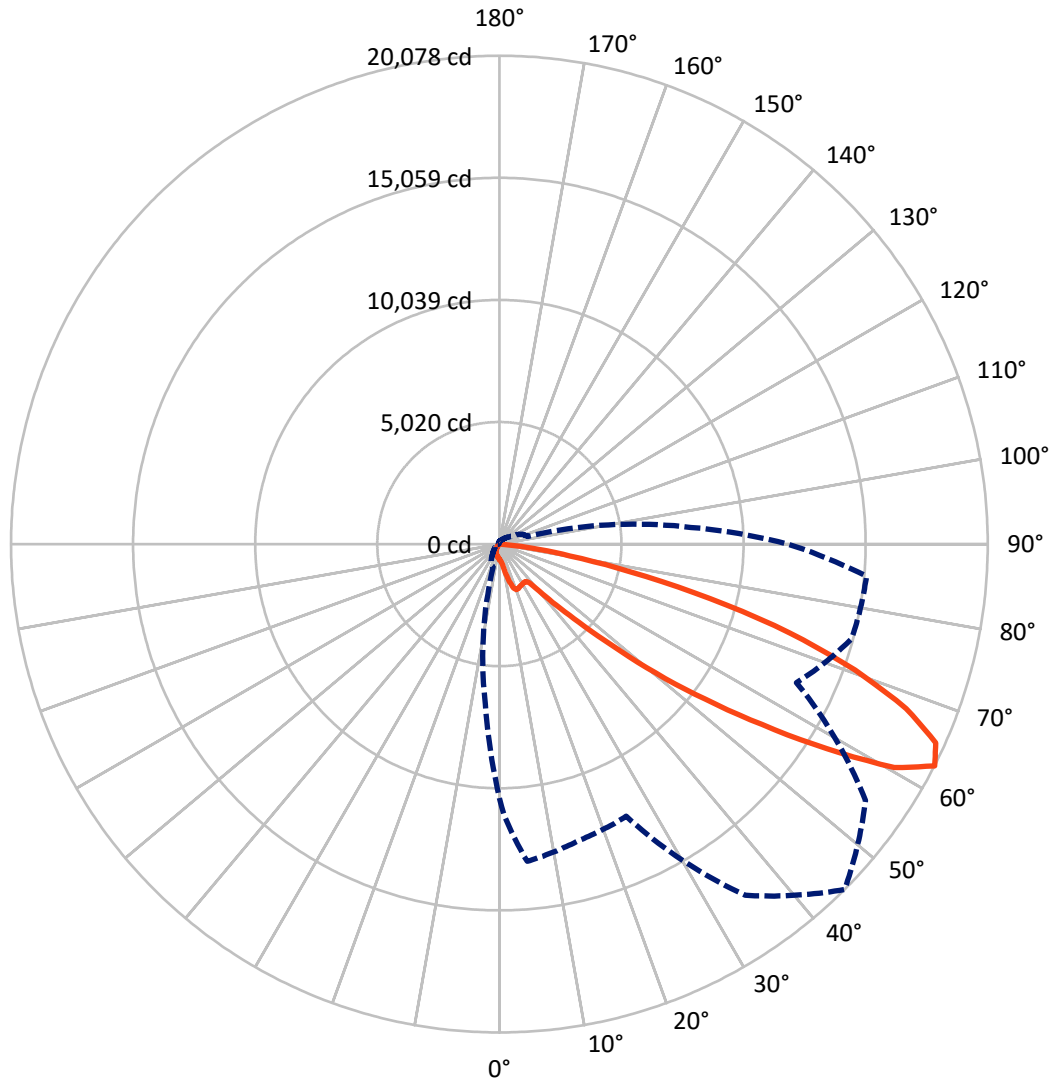
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.2 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	1499.8	0.0	1499.8
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	10654.1	0.0	10654.1
	% Fixture	87.7	0.0	87.7
Total	Lumens	12153.9	0.0	12153.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.0	0.5
10°-20°	211.9	1.7
20°-30°	460.6	3.8
30°-40°	756.0	6.2
40°-50°	1389.9	11.4
50°-60°	2984.8	24.6
60°-70°	4009.1	33.0
70°-80°	2087.6	17.2
80°-90°	197.9	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°	12153.9	100.0
0°-180°	12153.9	100.0

Coefficient of Utilization



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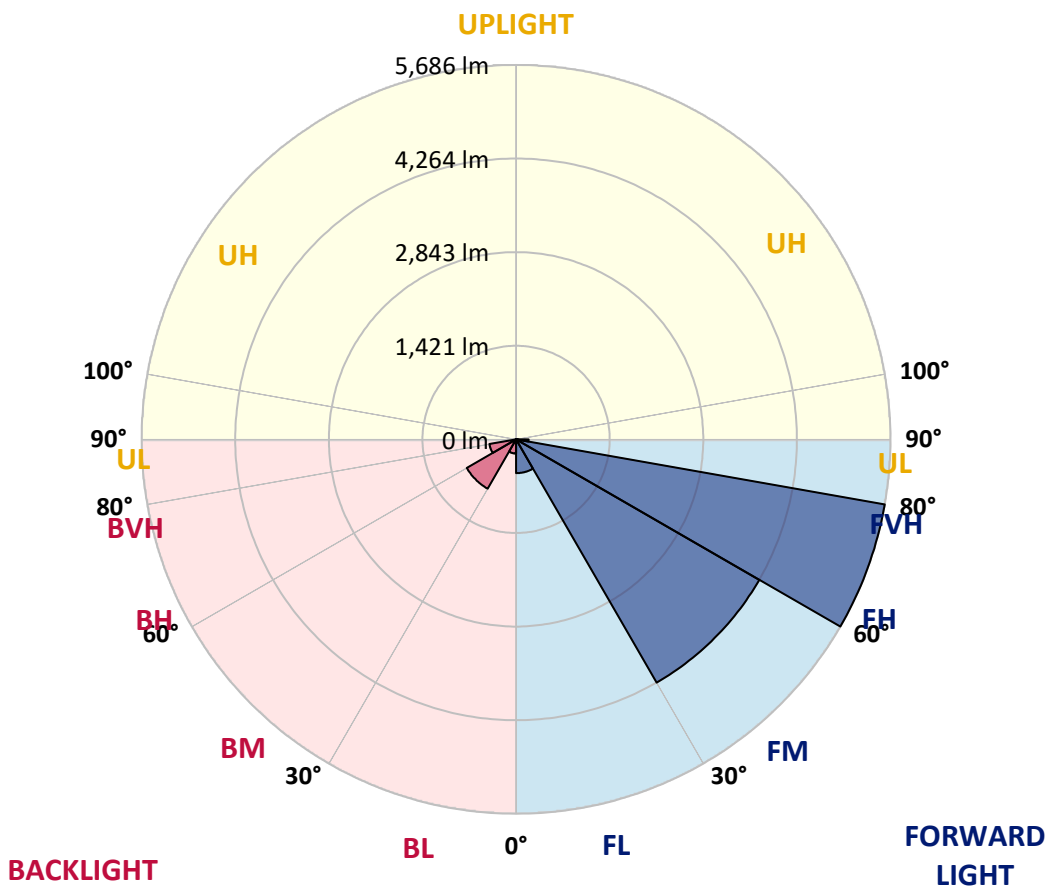
CATALOG NUMBER: GWS-SA4C-760-U-SLR-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	513.4	4.2			
FM (30°-60°)	4265.9	35.1			
FH (60°-80°)	5685.7	46.8			G3/7500
FVH (80°-90°)	189.1	1.6			G2/225
BL (0°-30°)	215.1	1.8	B1/500		
BM (30°-60°)	864.9	7.1	B1/1000		
BH (60°-80°)	410.9	3.4	B1/500		G1/500
BVH (80°-90°)	8.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	631.7	631.7	631.7	631.7	631.7	631.7	631.7	631.7	631.7	631.7	631.7
2.5°	644.4	647.2	650.0	659.8	666.8	672.5	673.9	669.7	659.8	650.0	636.0
5°	624.7	627.5	637.4	664.0	690.7	711.8	718.8	714.6	690.7	659.8	627.5
7.5°	623.3	628.9	652.8	709.0	766.5	810.0	821.3	811.4	766.5	704.8	638.8
10°	673.9	683.7	718.8	819.9	925.2	1002.4	1033.3	991.1	919.5	807.2	699.1
12.5°	805.8	822.7	890.1	1037.5	1200.3	1302.8	1344.9	1293.0	1180.7	1017.8	846.5
15°	1013.6	1038.9	1140.0	1360.4	1552.7	1643.9	1658.0	1628.5	1497.9	1318.2	1088.0
17.5°	1307.0	1343.5	1500.8	1725.4	1864.4	1896.6	1892.4	1861.6	1766.1	1642.5	1424.9
20°	1658.0	1701.5	1855.9	2041.2	2055.3	2017.4	1996.3	1978.1	1945.8	1924.7	1754.9
22.5°	2011.8	2065.1	2226.6	2272.9	2146.5	2037.0	1985.1	1999.1	2046.9	2150.8	2082.0
25°	2364.1	2414.7	2566.3	2441.4	2188.7	2006.2	1940.2	1973.9	2087.6	2312.2	2400.6
27.5°	2775.5	2813.4	2903.2	2556.5	2195.7	1980.9	1916.3	1968.2	2107.2	2413.3	2750.2
30°	3203.7	3226.1	3182.6	2587.4	2171.8	1943.0	1892.4	1968.2	2140.9	2480.7	3012.7
32.5°	3518.1	3522.3	3380.6	2590.2	2159.2	1912.1	1870.0	1959.8	2173.2	2536.8	3266.8
35°	3842.4	3821.4	3570.1	2632.3	2192.9	1923.3	1886.8	1983.7	2223.8	2602.8	3490.1
37.5°	4170.9	4133.0	3782.1	2701.1	2279.9	2045.5	2023.0	2105.8	2305.2	2694.1	3735.7
40°	4507.9	4455.9	4002.5	2805.0	2473.6	2461.0	2538.2	2528.4	2528.4	2810.6	3988.4
42.5°	4919.2	4858.8	4328.2	3098.4	2925.7	3207.9	3418.5	3287.9	3046.4	3078.7	4316.9
45°	5462.5	5410.6	4892.5	3659.9	3634.7	4283.3	4566.8	4308.5	3707.7	3697.8	4865.9
47.5°	6331.5	6321.7	5792.4	4311.3	4502.3	5652.0	6199.6	5702.6	4461.5	4353.4	5904.7
50°	7552.9	7523.4	6914.1	5075.0	5534.1	7347.9	8325.0	7496.7	5372.7	5118.6	7296.0
52.5°	8928.7	8959.6	8485.1	5909.0	6630.6	9234.8	10595.1	9552.0	6362.4	6091.5	9046.6
55°	10224.5	10401.4	10276.4	6884.7	7701.7	11318.1	13088.4	11806.7	7588.0	7364.8	11009.3
57.5°	11238.1	11736.5	12612.5	8302.6	8961.0	13755.3	15872.3	14250.8	9018.6	9432.7	13680.9
60°	11294.3	11954.1	13988.3	11269.0	10581.1	15845.7	18652.0	16638.8	11267.6	12943.8	15774.1
62.5°	10447.7	11155.3	13092.6	12616.7	12345.8	17624.4	20078.4	18379.7	13480.1	15000.5	15153.5
65°	9479.0	10193.6	12093.1	11087.9	12140.8	17548.6	19716.2	18420.4	13680.9	13602.2	14043.1
67.5°	8014.8	8656.4	10376.1	9814.6	11190.4	16702.0	18042.7	17259.4	12604.1	12722.0	12918.6
70°	5850.0	6467.7	8063.9	8092.0	9772.4	15176.0	15503.1	15395.0	11607.3	11732.3	11170.7
72.5°	4225.7	4746.5	6123.7	6636.2	7801.4	12726.2	12500.2	12917.1	9959.2	10449.1	8972.2
75°	3038.0	3428.3	4492.4	5772.8	6184.1	9451.0	8948.4	10004.1	7990.9	8997.5	6745.7
77.5°	1232.6	1370.2	1767.5	3888.8	4064.2	6358.2	5478.0	7266.5	5697.0	5911.8	3269.6
80°	50.5	56.2	73.0	2007.6	2786.7	3577.1	2931.3	3884.6	3762.4	2381.0	772.1
82.5°	5.6	5.6	12.6	578.4	1220.0	1973.9	1381.4	2237.8	1905.1	1009.4	351.0
85°	1.4	1.4	2.8	66.0	286.4	315.9	186.7	686.5	885.9	412.7	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	12.6	14.0	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°	631.7	631.7	631.7	631.7	631.7	631.7	631.7	631.7	631.7	631.7	631.7
2.5°	636.0	628.9	620.5	612.1	607.9	596.7	592.4	589.6	586.8	588.2	588.2
5°	614.9	599.5	581.2	563.0	553.1	541.9	536.3	533.5	534.9	540.5	540.5
7.5°	612.1	582.6	543.3	519.4	508.2	499.8	494.2	491.4	492.8	499.8	502.6
10°	658.4	606.5	536.3	495.6	482.9	474.5	468.9	464.7	461.9	467.5	468.9
12.5°	758.1	686.5	570.0	492.8	470.3	459.1	454.9	446.4	442.2	445.0	446.4
15°	964.5	840.9	637.4	504.0	459.1	446.4	439.4	432.4	425.4	424.0	425.4
17.5°	1234.0	1057.1	739.8	530.7	450.6	435.2	425.4	415.6	405.7	404.3	402.9
20°	1568.1	1322.5	883.0	572.8	443.6	425.4	411.3	397.3	384.7	380.5	380.5
22.5°	1872.8	1642.5	1067.0	624.7	433.8	411.3	394.5	377.6	363.6	356.6	355.2
25°	2244.8	1982.3	1287.4	685.1	419.8	393.1	374.8	358.0	344.0	335.5	332.7
27.5°	2619.7	2340.3	1537.3	763.7	402.9	374.8	358.0	342.5	327.1	317.3	314.5
30°	2983.3	2726.3	1818.0	862.0	390.3	356.6	342.5	327.1	313.1	297.6	293.4
32.5°	3373.5	3120.8	2132.5	971.5	380.5	344.0	328.5	314.5	296.2	282.2	275.2
35°	3749.8	3528.0	2479.3	1078.2	370.6	332.7	315.9	301.8	282.2	266.7	256.9
37.5°	4128.8	3942.1	2841.5	1142.8	356.6	317.3	301.8	290.6	268.1	249.9	238.7
40°	4530.3	4370.3	3233.1	1116.1	344.0	300.4	292.0	279.4	254.1	233.0	219.0
42.5°	4971.2	4778.8	3631.9	1013.6	332.7	286.4	278.0	265.3	241.5	216.2	197.9
45°	5525.7	5226.7	3959.0	859.2	338.3	272.4	255.5	252.7	230.2	197.9	175.5
47.5°	6478.9	5914.6	4213.1	759.5	376.2	256.9	237.3	244.3	220.4	179.7	154.4
50°	7937.6	7054.5	4450.3	752.5	433.8	249.9	220.4	238.7	210.6	161.4	136.2
52.5°	9327.4	8212.7	4601.9	814.3	484.3	268.1	203.6	231.6	203.6	148.8	123.5
55°	10656.9	8881.0	4331.0	859.2	532.1	322.9	190.9	220.4	195.1	141.8	119.3
57.5°	12090.3	9178.6	3410.0	950.4	565.8	369.2	193.7	203.6	183.9	137.6	117.9
60°	12518.4	8798.1	2058.1	1069.8	547.5	383.3	214.8	181.1	168.5	129.2	113.7
62.5°	11853.0	7895.5	1214.4	974.3	532.1	362.2	245.7	167.1	153.0	117.9	105.3
65°	10857.6	6669.9	791.8	822.7	564.4	322.9	261.1	160.0	139.0	106.7	92.7
67.5°	9720.5	5372.7	554.5	485.7	520.8	290.6	220.4	158.6	124.9	89.8	75.8
70°	8187.5	4023.5	390.3	321.5	433.8	258.3	171.3	154.4	109.5	73.0	59.0
72.5°	6325.9	2518.6	290.6	207.8	308.9	210.6	136.2	130.6	88.4	60.4	44.9
75°	4665.1	1436.2	205.0	150.2	203.6	160.0	101.1	92.7	75.8	57.6	40.7
77.5°	2435.7	718.8	127.8	115.1	116.5	99.7	73.0	67.4	70.2	57.6	37.9
80°	467.5	143.2	77.2	84.2	63.2	63.2	53.3	56.2	61.8	46.3	32.3
82.5°	195.1	30.9	42.1	47.7	39.3	43.5	43.5	44.9	43.5	33.7	23.9
85°	0.0	0.0	18.3	19.7	26.7	26.7	22.5	22.5	22.5	19.7	14.0
87.5°	0.0	0.0	0.0	0.0	1.4	4.2	8.4	9.8	11.2	8.4	5.6
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°	631.7	631.7	631.7	631.7	631.7	631.7	631.7	631.7	631.7	631.7	631.7
2.5°	586.8	584.0	588.2	591.0	593.8	593.8	591.0	588.2	584.0	588.2	584.0
5°	541.9	546.1	553.1	555.9	558.7	553.1	550.3	541.9	534.9	536.3	533.5
7.5°	506.8	511.0	519.4	525.1	525.1	522.2	513.8	505.4	494.2	494.2	492.8
10°	474.5	480.1	490.0	497.0	499.8	497.0	488.6	477.3	467.5	467.5	463.3
12.5°	447.8	454.9	466.1	475.9	478.7	475.9	467.5	456.3	445.0	445.0	442.2
15°	425.4	433.8	446.4	457.7	461.9	457.7	447.8	433.8	422.6	424.0	419.8
17.5°	404.3	411.3	428.2	440.8	445.0	440.8	428.2	409.9	398.7	401.5	398.7
20°	380.5	388.9	405.7	419.8	424.0	419.8	405.7	386.1	374.8	374.8	376.2
22.5°	355.2	363.6	380.5	390.3	395.9	391.7	377.6	359.4	348.2	348.2	349.6
25°	332.7	336.9	349.6	359.4	360.8	356.6	345.4	331.3	322.9	327.1	328.5
27.5°	311.7	311.7	317.3	322.9	321.5	317.3	313.1	301.8	300.4	304.6	308.9
30°	289.2	282.2	279.4	275.2	273.8	272.4	276.6	276.6	279.4	285.0	289.2
32.5°	269.5	255.5	242.9	230.2	223.2	228.8	240.1	249.9	259.7	268.1	272.4
35°	247.1	224.6	203.6	186.7	175.5	183.9	202.2	220.4	237.3	248.5	255.5
37.5°	224.6	192.3	167.1	146.0	137.6	144.6	164.3	189.5	214.8	228.8	238.7
40°	200.8	160.0	130.6	113.7	105.3	112.3	132.0	157.2	190.9	209.2	221.8
42.5°	176.9	132.0	105.3	88.4	84.2	88.4	103.9	129.2	165.7	188.1	205.0
45°	153.0	109.5	84.2	71.6	67.4	71.6	84.2	105.3	141.8	167.1	186.7
47.5°	132.0	92.7	70.2	59.0	56.2	60.4	70.2	88.4	119.3	144.6	167.1
50°	115.1	81.4	60.4	50.5	47.7	51.9	60.4	74.4	101.1	123.5	147.4
52.5°	103.9	75.8	53.3	43.5	42.1	44.9	51.9	63.2	85.6	105.3	127.8
55°	101.1	75.8	49.1	39.3	37.9	40.7	46.3	54.8	74.4	91.3	110.9
57.5°	103.9	81.4	46.3	33.7	32.3	35.1	40.7	47.7	64.6	78.6	96.9
60°	103.9	82.8	40.7	26.7	25.3	28.1	33.7	42.1	57.6	68.8	84.2
62.5°	94.1	75.8	33.7	21.1	18.3	21.1	28.1	35.1	50.5	61.8	74.4
65°	81.4	64.6	28.1	15.4	12.6	15.4	22.5	29.5	43.5	53.3	67.4
67.5°	66.0	49.1	21.1	11.2	8.4	11.2	16.8	23.9	36.5	46.3	60.4
70°	49.1	35.1	16.8	9.8	8.4	9.8	15.4	22.5	32.3	42.1	56.2
72.5°	36.5	23.9	14.0	9.8	7.0	9.8	14.0	21.1	30.9	40.7	53.3
75°	30.9	19.7	12.6	8.4	7.0	8.4	12.6	19.7	28.1	37.9	50.5
77.5°	29.5	18.3	11.2	7.0	5.6	7.0	11.2	16.8	25.3	35.1	49.1
80°	25.3	15.4	9.8	5.6	4.2	5.6	9.8	14.0	19.7	26.7	37.9
82.5°	19.7	12.6	7.0	2.8	1.4	2.8	7.0	8.4	12.6	15.4	22.5
85°	12.6	7.0	2.8	0.0	0.0	0.0	2.8	5.6	5.6	7.0	11.2
87.5°	5.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8	4.2
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°	631.7	631.7	631.7	631.7	631.7	631.7	631.7	631.7	631.7	631.7
2.5°	592.4	593.8	596.7	600.9	610.7	619.1	627.5	638.8	644.4	644.4
5°	536.3	537.7	539.1	544.7	558.7	570.0	588.2	610.7	621.9	624.7
7.5°	492.8	495.6	498.4	502.6	516.6	532.1	555.9	598.1	619.1	623.3
10°	467.5	471.7	477.3	485.7	498.4	515.2	555.9	631.7	666.8	673.9
12.5°	447.8	454.9	460.5	470.3	485.7	512.4	593.8	727.2	789.0	805.8
15°	428.2	436.6	445.0	454.9	471.7	522.2	666.8	898.5	1001.0	1013.6
17.5°	408.5	418.4	429.6	440.8	461.9	546.1	782.0	1135.7	1278.9	1307.0
20°	386.1	398.7	414.1	428.2	452.1	584.0	942.0	1417.9	1597.6	1658.0
22.5°	362.2	377.6	395.9	414.1	440.8	630.3	1135.7	1721.2	1972.5	2011.8
25°	342.5	358.0	374.8	393.1	422.6	686.5	1370.2	2097.4	2326.2	2364.1
27.5°	324.3	339.7	355.2	372.0	404.3	759.5	1652.4	2497.5	2736.2	2775.5
30°	304.6	322.9	338.3	355.2	387.5	849.4	1978.1	2941.1	3167.2	3203.7
32.5°	287.8	306.0	321.5	338.3	374.8	947.6	2320.6	3334.2	3518.1	3518.1
35°	273.8	293.4	304.6	327.1	365.0	1010.8	2644.9	3709.1	3848.0	3842.4
37.5°	258.3	282.2	290.6	306.0	352.4	1017.8	2949.6	4105.0	4207.4	4170.9
40°	242.9	268.1	280.8	289.2	338.3	960.3	3283.7	4468.6	4555.6	4507.9
42.5°	228.8	248.5	266.7	276.6	329.9	859.2	3551.8	4857.4	4961.3	4919.2
45°	214.8	231.6	242.9	261.1	335.5	789.0	3782.1	5310.9	5493.4	5462.5
47.5°	200.8	214.8	221.8	249.9	373.4	756.7	3922.5	6012.8	6356.8	6331.5
50°	185.3	202.2	202.2	247.1	429.6	767.9	4044.6	7029.3	7561.3	7552.9
52.5°	169.9	188.1	185.3	268.1	473.1	819.9	4183.6	7926.3	8851.5	8928.7
55°	154.4	171.3	174.1	310.3	498.4	864.8	3645.9	8304.0	9953.5	10224.5
57.5°	137.6	147.4	181.1	342.5	490.0	995.4	2497.5	8372.8	10656.9	11238.1
60°	119.3	127.8	205.0	335.5	463.3	919.5	1572.4	7755.1	10557.2	11294.3
62.5°	103.9	117.9	216.2	296.2	471.7	797.4	1002.4	6609.5	9606.8	10447.7
65°	91.3	113.7	196.5	268.1	477.3	540.5	676.7	5376.9	8678.8	9479.0
67.5°	81.4	126.3	161.4	238.7	409.9	380.5	464.7	4178.0	7297.4	8014.8
70°	74.4	129.2	132.0	205.0	317.3	244.3	306.0	2812.0	5030.1	5850.0
72.5°	67.4	95.5	99.7	164.3	205.0	148.8	197.9	1608.9	3666.9	4225.7
75°	64.6	64.6	68.8	106.7	113.7	108.1	127.8	960.3	2629.5	3038.0
77.5°	60.4	49.1	43.5	68.8	61.8	77.2	75.8	426.8	1140.0	1232.6
80°	47.7	35.1	29.5	43.5	42.1	51.9	44.9	35.1	51.9	50.5
82.5°	29.5	22.5	21.1	26.7	23.9	26.7	21.1	5.6	5.6	5.6
85°	14.0	12.6	11.2	11.2	12.6	11.2	8.4	2.8	1.4	1.4
87.5°	7.0	7.0	5.6	4.2	5.6	5.6	4.2	1.4	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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