

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: P637275

Luminaire Tested: GWS-SA4C-740-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637275
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12046.8 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

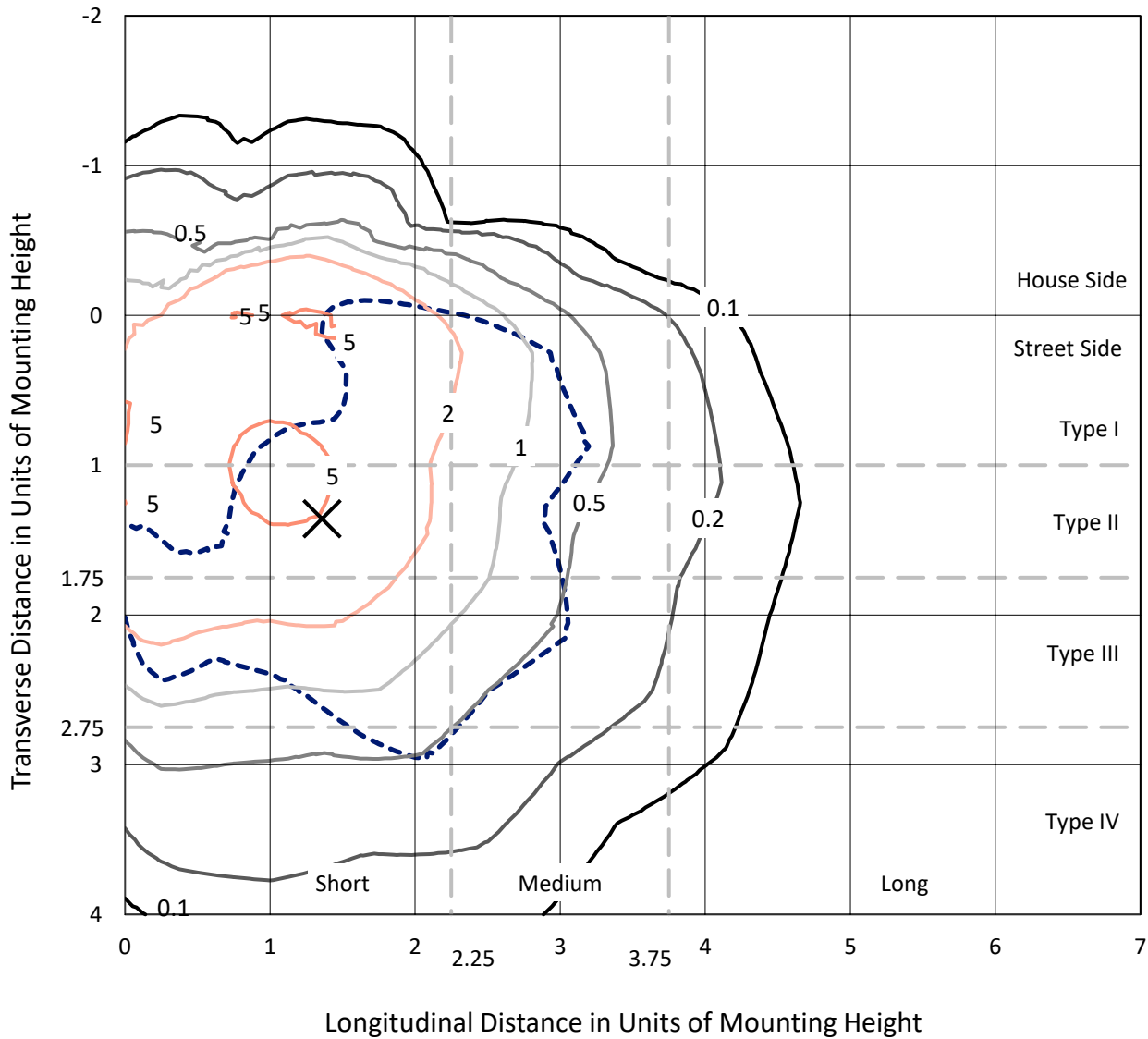
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

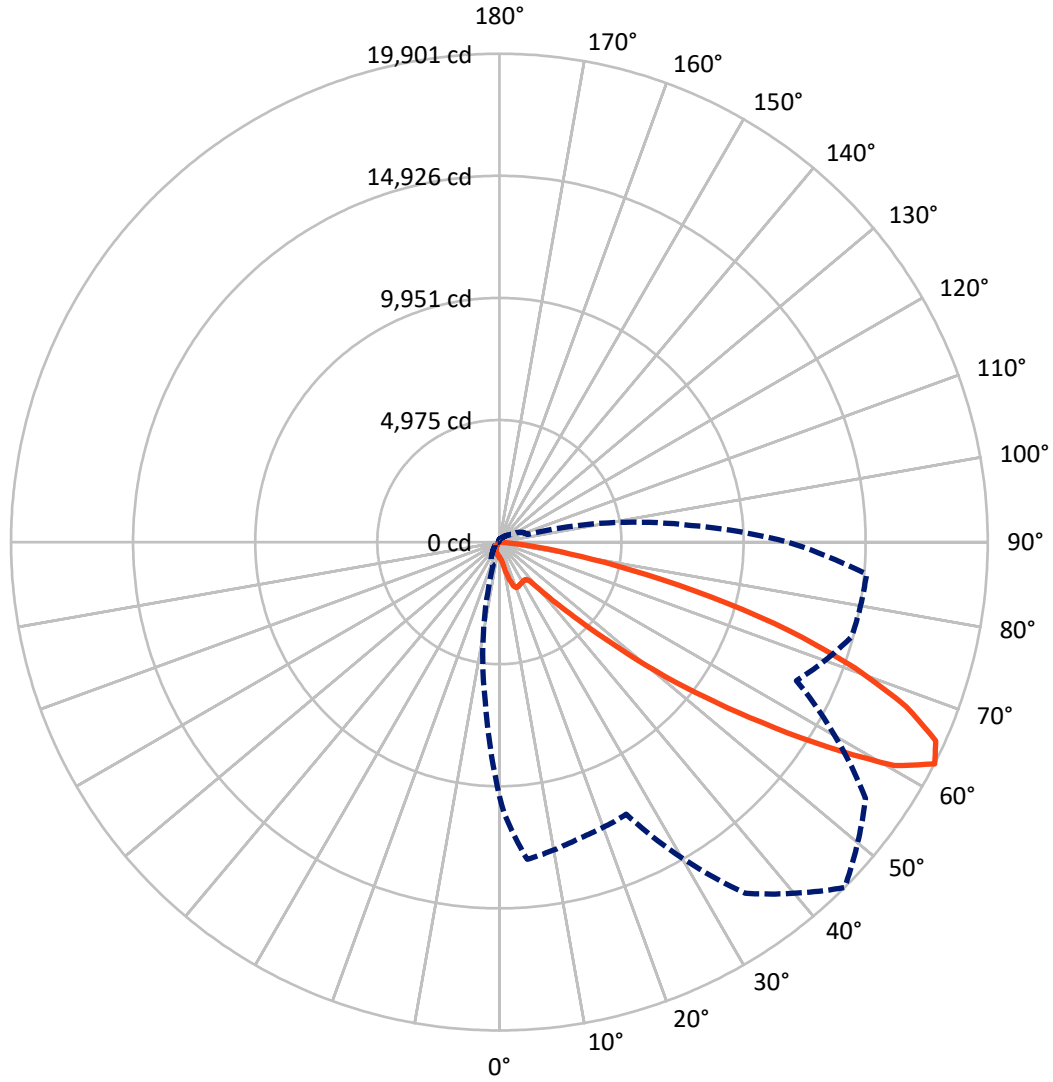
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.1 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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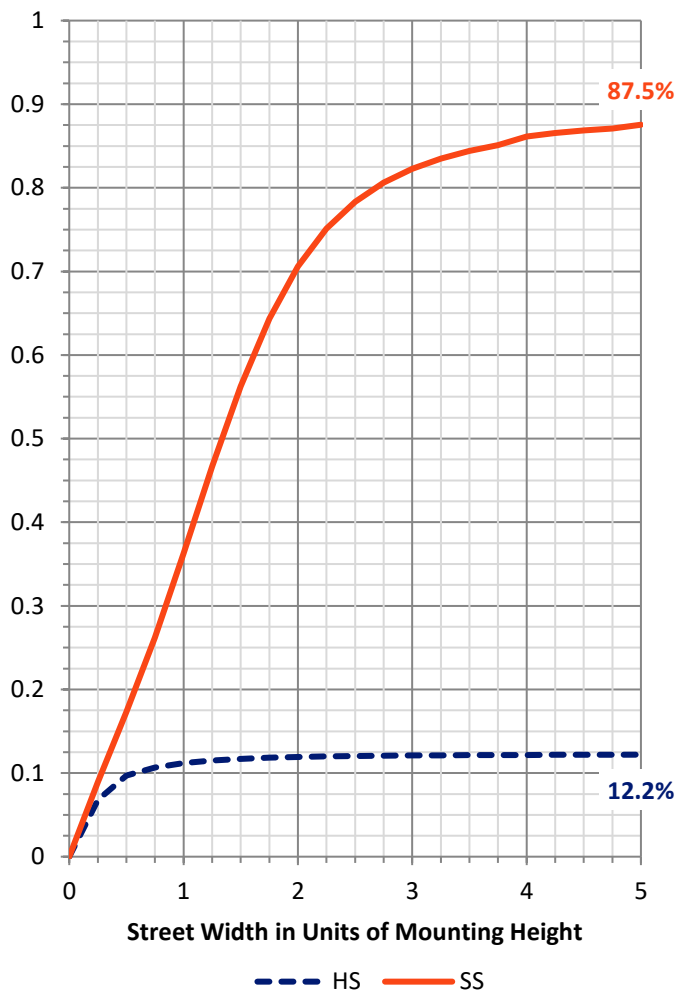
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1486.6	0.0	1486.6
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	10560.2	0.0	10560.2
	% Fixture	87.7	0.0	87.7
Total	Lumens	12046.8	0.0	12046.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.6	0.5
10°-20°	210.0	1.7
20°-30°	456.6	3.8
30°-40°	749.4	6.2
40°-50°	1377.6	11.4
50°-60°	2958.5	24.6
60°-70°	3973.7	33.0
70°-80°	2069.2	17.2
80°-90°	196.2	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°	12046.8	100.0
0°-180°	12046.8	100.0

Coefficient of Utilization



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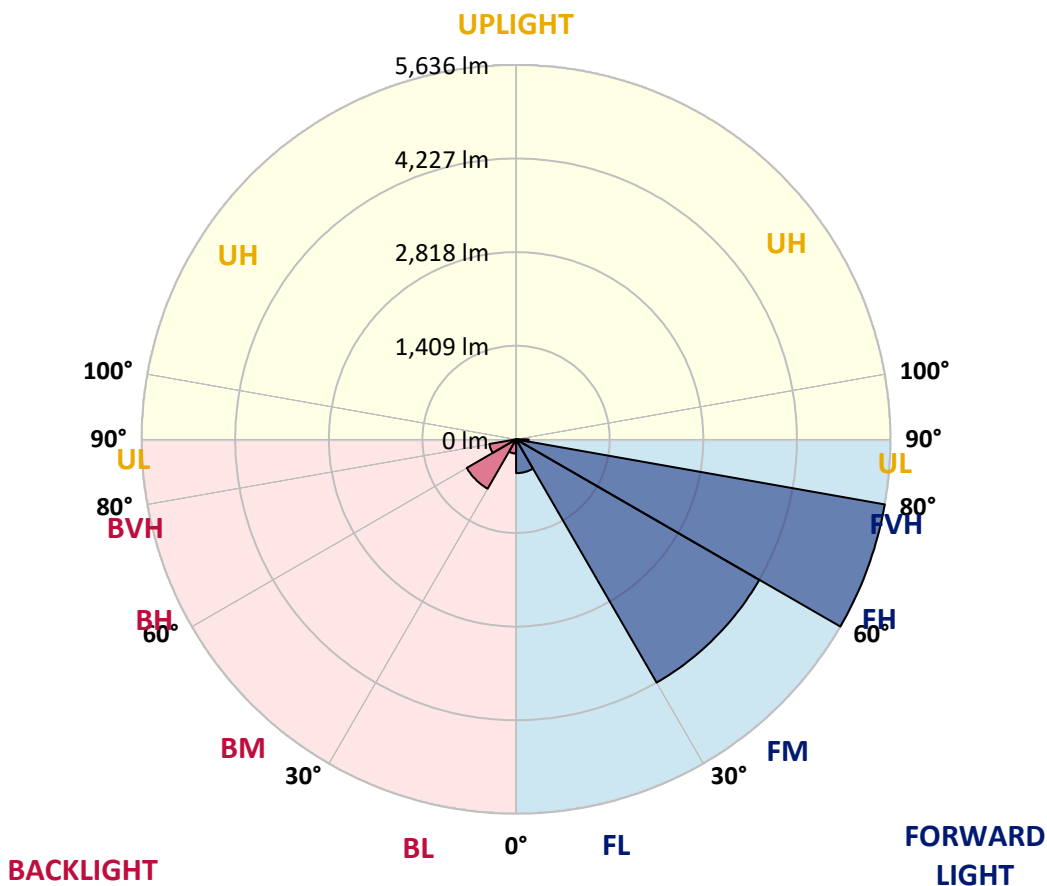
CATALOG NUMBER: GWS-SA4C-740-U-SLR-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	508.9	4.2			
FM (30°-60°)	4228.3	35.1			
FH (60°-80°)	5635.6	46.8			G3/7500
FVH (80°-90°)	187.4	1.6			G2/225
BL (0°-30°)	213.2	1.8	B1/500		
BM (30°-60°)	857.2	7.1	B1/1000		
BH (60°-80°)	407.3	3.4	B1/500		G1/500
BVH (80°-90°)	8.7	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°	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2
2.5°	638.7	641.5	644.3	654.0	661.0	666.5	667.9	663.8	654.0	644.3	630.4
5°	619.2	622.0	631.7	658.2	684.6	705.5	712.5	708.3	684.6	654.0	622.0
7.5°	617.8	623.4	647.1	702.7	759.8	802.9	814.0	804.3	759.8	698.5	633.1
10°	667.9	677.7	712.5	812.6	917.0	993.5	1024.2	982.4	911.4	800.1	693.0
12.5°	798.7	815.4	882.2	1028.3	1189.7	1291.3	1333.1	1281.6	1170.3	1008.8	839.1
15°	1004.7	1029.7	1129.9	1348.4	1539.0	1629.5	1643.4	1614.2	1484.7	1306.6	1078.4
17.5°	1295.5	1331.7	1487.5	1710.2	1847.9	1879.9	1875.8	1845.1	1750.5	1628.1	1412.4
20°	1643.4	1686.5	1839.6	2023.3	2037.2	1999.6	1978.7	1960.6	1928.6	1907.8	1739.4
22.5°	1994.0	2046.9	2206.9	2252.9	2127.6	2019.1	1967.6	1981.5	2028.8	2131.8	2063.6
25°	2343.3	2393.4	2543.7	2419.8	2169.4	1988.5	1923.1	1956.5	2069.2	2291.8	2379.5
27.5°	2751.0	2788.6	2877.7	2533.9	2176.3	1963.4	1899.4	1950.9	2088.7	2392.0	2726.0
30°	3175.4	3197.7	3154.6	2564.6	2152.7	1925.9	1875.8	1950.9	2122.1	2458.8	2986.2
32.5°	3487.1	3491.3	3350.8	2567.3	2140.1	1895.2	1853.5	1942.6	2154.1	2514.5	3238.1
35°	3808.6	3787.7	3538.6	2609.1	2173.5	1906.4	1870.2	1966.2	2204.2	2579.9	3459.3
37.5°	4134.2	4096.6	3748.7	2677.3	2259.8	2027.4	2005.2	2087.3	2284.9	2670.3	3702.8
40°	4468.2	4416.7	3967.2	2780.2	2451.8	2439.3	2515.9	2506.1	2506.1	2785.8	3953.3
42.5°	4875.9	4816.0	4290.0	3071.1	2899.9	3179.6	3388.3	3258.9	3019.6	3051.6	4278.9
45°	5414.4	5362.9	4849.4	3627.7	3602.6	4245.5	4526.6	4270.6	3675.0	3665.2	4823.0
47.5°	6275.7	6266.0	5741.4	4273.3	4462.6	5602.2	6144.9	5652.3	4422.2	4315.1	5852.7
50°	7486.3	7457.1	6853.2	5030.3	5485.3	7283.2	8251.7	7430.7	5325.3	5073.5	7231.7
52.5°	8850.0	8880.6	8410.3	5856.9	6572.1	9153.4	10501.8	9467.9	6306.3	6037.8	8966.9
55°	10134.4	10309.7	10185.9	6824.0	7633.8	11218.4	12973.1	11702.6	7521.1	7299.9	10912.3
57.5°	11139.1	11633.1	12501.4	8229.4	8882.0	13634.1	15732.5	14125.3	8939.1	9349.6	13560.3
60°	11194.7	11848.7	13865.0	11169.7	10487.8	15706.0	18487.7	16492.2	11168.3	12829.8	15635.1
62.5°	10355.6	11057.0	12977.3	12505.5	12237.0	17469.1	19901.4	18217.7	13361.3	14868.3	15020.0
65°	9395.5	10103.8	11986.5	10990.2	12033.8	17393.9	19542.4	18258.1	13560.3	13482.4	13919.3
67.5°	7944.2	8580.1	10284.7	9728.1	11091.8	16554.8	17883.7	17107.3	12493.0	12609.9	12804.7
70°	5798.4	6410.7	7992.9	8020.7	9686.3	15042.3	15366.5	15259.3	11505.0	11628.9	11072.3
72.5°	4188.5	4704.7	6069.8	6577.7	7732.6	12614.1	12390.0	12803.3	9871.4	10357.0	8893.2
75°	3011.2	3398.1	4452.8	5721.9	6129.6	9367.7	8869.5	9915.9	7920.5	8918.2	6686.2
77.5°	1221.7	1358.1	1751.9	3854.5	4028.4	6302.2	5429.7	7202.5	5646.8	5859.7	3240.8
80°	50.1	55.7	72.4	1989.9	2762.2	3545.6	2905.5	3850.3	3729.3	2360.0	765.3
82.5°	5.6	5.6	12.5	573.3	1209.2	1956.5	1369.3	2218.1	1888.3	1000.5	347.9
85°	1.4	1.4	2.8	65.4	283.9	313.1	185.1	680.5	878.0	409.1	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	12.5	13.9	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°	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2
2.5°	630.4	623.4	615.0	606.7	602.5	591.4	587.2	584.4	581.7	583.0	583.0
5°	609.5	594.2	576.1	558.0	548.3	537.1	531.6	528.8	530.2	535.7	535.7
7.5°	606.7	577.5	538.5	514.9	503.7	495.4	489.8	487.0	488.4	495.4	498.2
10°	652.6	601.1	531.6	491.2	478.7	470.3	464.8	460.6	457.8	463.4	464.8
12.5°	751.4	680.5	565.0	488.4	466.2	455.0	450.9	442.5	438.3	441.1	442.5
15°	956.0	833.5	631.7	499.6	455.0	442.5	435.5	428.6	421.6	420.2	421.6
17.5°	1223.1	1047.8	733.3	526.0	446.7	431.4	421.6	411.9	402.1	400.8	399.4
20°	1554.3	1310.8	875.3	567.7	439.7	421.6	407.7	393.8	381.3	377.1	377.1
22.5°	1856.3	1628.1	1057.6	619.2	430.0	407.7	391.0	374.3	360.4	353.4	352.1
25°	2225.0	1964.8	1276.0	679.1	416.1	389.6	371.5	354.8	340.9	332.6	329.8
27.5°	2596.6	2319.7	1523.7	757.0	399.4	371.5	354.8	339.5	324.2	314.5	311.7
30°	2957.0	2702.3	1802.0	854.4	386.8	353.4	339.5	324.2	310.3	295.0	290.8
32.5°	3343.8	3093.3	2113.7	962.9	377.1	340.9	325.6	311.7	293.6	279.7	272.7
35°	3716.7	3496.9	2457.4	1068.7	367.4	329.8	313.1	299.2	279.7	264.4	254.6
37.5°	4092.4	3907.4	2816.4	1132.7	353.4	314.5	299.2	288.0	265.8	247.7	236.6
40°	4490.4	4331.8	3204.7	1106.3	340.9	297.8	289.4	276.9	251.9	231.0	217.1
42.5°	4927.4	4736.7	3599.8	1004.7	329.8	283.9	275.5	263.0	239.3	214.3	196.2
45°	5477.0	5180.6	3924.1	851.6	335.4	270.0	253.3	250.5	228.2	196.2	173.9
47.5°	6421.8	5862.4	4175.9	752.8	372.9	254.6	235.2	242.1	218.5	178.1	153.1
50°	7867.6	6992.4	4411.1	745.9	430.0	247.7	218.5	236.6	208.7	160.0	135.0
52.5°	9245.2	8140.4	4561.4	807.1	480.1	265.8	201.8	229.6	201.8	147.5	122.5
55°	10563.0	8802.7	4292.8	851.6	527.4	320.0	189.2	218.5	193.4	140.5	118.3
57.5°	11983.7	9097.7	3380.0	942.1	560.8	366.0	192.0	201.8	182.3	136.4	116.9
60°	12408.1	8720.6	2040.0	1060.3	542.7	379.9	212.9	179.5	167.0	128.0	112.7
62.5°	11748.6	7825.9	1203.7	965.7	527.4	359.0	243.5	165.6	151.7	116.9	104.4
65°	10762.0	6611.1	784.8	815.4	559.4	320.0	258.8	158.6	137.8	105.8	91.8
67.5°	9634.8	5325.3	549.6	481.5	516.3	288.0	218.5	157.2	123.8	89.1	75.1
70°	8115.3	3988.1	386.8	318.7	430.0	256.0	169.8	153.1	108.5	72.4	58.4
72.5°	6270.2	2496.4	288.0	205.9	306.1	208.7	135.0	129.4	87.7	59.8	44.5
75°	4624.0	1423.5	203.2	148.9	201.8	158.6	100.2	91.8	75.1	57.1	40.4
77.5°	2414.3	712.5	126.6	114.1	115.5	98.8	72.4	66.8	69.6	57.1	37.6
80°	463.4	141.9	76.5	83.5	62.6	62.6	52.9	55.7	61.2	45.9	32.0
82.5°	193.4	30.6	41.7	47.3	39.0	43.1	43.1	44.5	43.1	33.4	23.7
85°	0.0	0.0	18.1	19.5	26.4	26.4	22.3	22.3	22.3	19.5	13.9
87.5°	0.0	0.0	0.0	0.0	1.4	4.2	8.3	9.7	11.1	8.3	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°	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2
2.5°	581.7	578.9	583.0	585.8	588.6	588.6	585.8	583.0	578.9	583.0	578.9
5°	537.1	541.3	548.3	551.0	553.8	548.3	545.5	537.1	530.2	531.6	528.8
7.5°	502.3	506.5	514.9	520.4	520.4	517.6	509.3	500.9	489.8	489.8	488.4
10°	470.3	475.9	485.6	492.6	495.4	492.6	484.2	473.1	463.4	463.4	459.2
12.5°	443.9	450.9	462.0	471.7	474.5	471.7	463.4	452.2	441.1	441.1	438.3
15°	421.6	430.0	442.5	453.6	457.8	453.6	443.9	430.0	418.8	420.2	416.1
17.5°	400.8	407.7	424.4	436.9	441.1	436.9	424.4	406.3	395.2	398.0	395.2
20°	377.1	385.4	402.1	416.1	420.2	416.1	402.1	382.7	371.5	371.5	372.9
22.5°	352.1	360.4	377.1	386.8	392.4	388.2	374.3	356.2	345.1	345.1	346.5
25°	329.8	334.0	346.5	356.2	357.6	353.4	342.3	328.4	320.0	324.2	325.6
27.5°	308.9	308.9	314.5	320.0	318.7	314.5	310.3	299.2	297.8	302.0	306.1
30°	286.7	279.7	276.9	272.7	271.3	270.0	274.1	274.1	276.9	282.5	286.7
32.5°	267.2	253.3	240.7	228.2	221.3	226.8	237.9	247.7	257.4	265.8	270.0
35°	244.9	222.6	201.8	185.1	173.9	182.3	200.4	218.5	235.2	246.3	253.3
37.5°	222.6	190.6	165.6	144.7	136.4	143.3	162.8	187.9	212.9	226.8	236.6
40°	199.0	158.6	129.4	112.7	104.4	111.3	130.8	155.8	189.2	207.3	219.9
42.5°	175.3	130.8	104.4	87.7	83.5	87.7	103.0	128.0	164.2	186.5	203.2
45°	151.7	108.5	83.5	71.0	66.8	71.0	83.5	104.4	140.5	165.6	185.1
47.5°	130.8	91.8	69.6	58.4	55.7	59.8	69.6	87.7	118.3	143.3	165.6
50°	114.1	80.7	59.8	50.1	47.3	51.5	59.8	73.8	100.2	122.5	146.1
52.5°	103.0	75.1	52.9	43.1	41.7	44.5	51.5	62.6	84.9	104.4	126.6
55°	100.2	75.1	48.7	39.0	37.6	40.4	45.9	54.3	73.8	90.4	109.9
57.5°	103.0	80.7	45.9	33.4	32.0	34.8	40.4	47.3	64.0	77.9	96.0
60°	103.0	82.1	40.4	26.4	25.0	27.8	33.4	41.7	57.1	68.2	83.5
62.5°	93.2	75.1	33.4	20.9	18.1	20.9	27.8	34.8	50.1	61.2	73.8
65°	80.7	64.0	27.8	15.3	12.5	15.3	22.3	29.2	43.1	52.9	66.8
67.5°	65.4	48.7	20.9	11.1	8.3	11.1	16.7	23.7	36.2	45.9	59.8
70°	48.7	34.8	16.7	9.7	8.3	9.7	15.3	22.3	32.0	41.7	55.7
72.5°	36.2	23.7	13.9	9.7	7.0	9.7	13.9	20.9	30.6	40.4	52.9
75°	30.6	19.5	12.5	8.3	7.0	8.3	12.5	19.5	27.8	37.6	50.1
77.5°	29.2	18.1	11.1	7.0	5.6	7.0	11.1	16.7	25.0	34.8	48.7
80°	25.0	15.3	9.7	5.6	4.2	5.6	9.7	13.9	19.5	26.4	37.6
82.5°	19.5	12.5	7.0	2.8	1.4	2.8	7.0	8.3	12.5	15.3	22.3
85°	12.5	7.0	2.8	0.0	0.0	0.0	2.8	5.6	5.6	7.0	11.1
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°	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2
2.5°	587.2	588.6	591.4	595.6	605.3	613.7	622.0	633.1	638.7	638.7
5°	531.6	532.9	534.3	539.9	553.8	565.0	583.0	605.3	616.4	619.2
7.5°	488.4	491.2	494.0	498.2	512.1	527.4	551.0	592.8	613.7	617.8
10°	463.4	467.5	473.1	481.5	494.0	510.7	551.0	626.2	661.0	667.9
12.5°	443.9	450.9	456.4	466.2	481.5	507.9	588.6	720.8	782.0	798.7
15°	424.4	432.8	441.1	450.9	467.5	517.6	661.0	890.6	992.1	1004.7
17.5°	404.9	414.7	425.8	436.9	457.8	541.3	775.1	1125.7	1267.7	1295.5
20°	382.7	395.2	410.5	424.4	448.1	578.9	933.7	1405.4	1583.5	1643.4
22.5°	359.0	374.3	392.4	410.5	436.9	624.8	1125.7	1706.0	1955.1	1994.0
25°	339.5	354.8	371.5	389.6	418.8	680.5	1358.1	2078.9	2305.7	2343.3
27.5°	321.4	336.7	352.1	368.8	400.8	752.8	1637.8	2475.5	2712.1	2751.0
30°	302.0	320.0	335.4	352.1	384.1	841.9	1960.6	2915.2	3139.3	3175.4
32.5°	285.3	303.4	318.7	335.4	371.5	939.3	2300.2	3304.8	3487.1	3487.1
35°	271.3	290.8	302.0	324.2	361.8	1001.9	2621.6	3676.4	3814.1	3808.6
37.5°	256.0	279.7	288.0	303.4	349.3	1008.8	2923.6	4068.8	4170.4	4134.2
40°	240.7	265.8	278.3	286.7	335.4	951.8	3254.8	4429.2	4515.5	4468.2
42.5°	226.8	246.3	264.4	274.1	327.0	851.6	3520.5	4814.6	4917.6	4875.9
45°	212.9	229.6	240.7	258.8	332.6	782.0	3748.7	5264.1	5445.0	5414.4
47.5°	199.0	212.9	219.9	247.7	370.1	750.0	3887.9	5959.9	6300.8	6275.7
50°	183.7	200.4	200.4	244.9	425.8	761.2	4009.0	6967.3	7494.7	7486.3
52.5°	168.4	186.5	183.7	265.8	468.9	812.6	4146.7	7856.5	8773.5	8850.0
55°	153.1	169.8	172.5	307.5	494.0	857.2	3613.8	8230.8	9865.8	10134.4
57.5°	136.4	146.1	179.5	339.5	485.6	986.6	2475.5	8299.0	10563.0	11139.1
60°	118.3	126.6	203.2	332.6	459.2	911.4	1558.5	7686.7	10464.2	11194.7
62.5°	103.0	116.9	214.3	293.6	467.5	790.4	993.5	6551.2	9522.1	10355.6
65°	90.4	112.7	194.8	265.8	473.1	535.7	670.7	5329.5	8602.3	9395.5
67.5°	80.7	125.2	160.0	236.6	406.3	377.1	460.6	4141.1	7233.1	7944.2
70°	73.8	128.0	130.8	203.2	314.5	242.1	303.4	2787.2	4985.8	5798.4
72.5°	66.8	94.6	98.8	162.8	203.2	147.5	196.2	1594.7	3634.6	4188.5
75°	64.0	64.0	68.2	105.8	112.7	107.1	126.6	951.8	2606.3	3011.2
77.5°	59.8	48.7	43.1	68.2	61.2	76.5	75.1	423.0	1129.9	1221.7
80°	47.3	34.8	29.2	43.1	41.7	51.5	44.5	34.8	51.5	50.1
82.5°	29.2	22.3	20.9	26.4	23.7	26.4	20.9	5.6	5.6	5.6
85°	13.9	12.5	11.1	11.1	12.5	11.1	8.3	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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