

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: P637656

Luminaire Tested: GWS-SA4D-730-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637656
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-40)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-730-U-SLL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13502 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

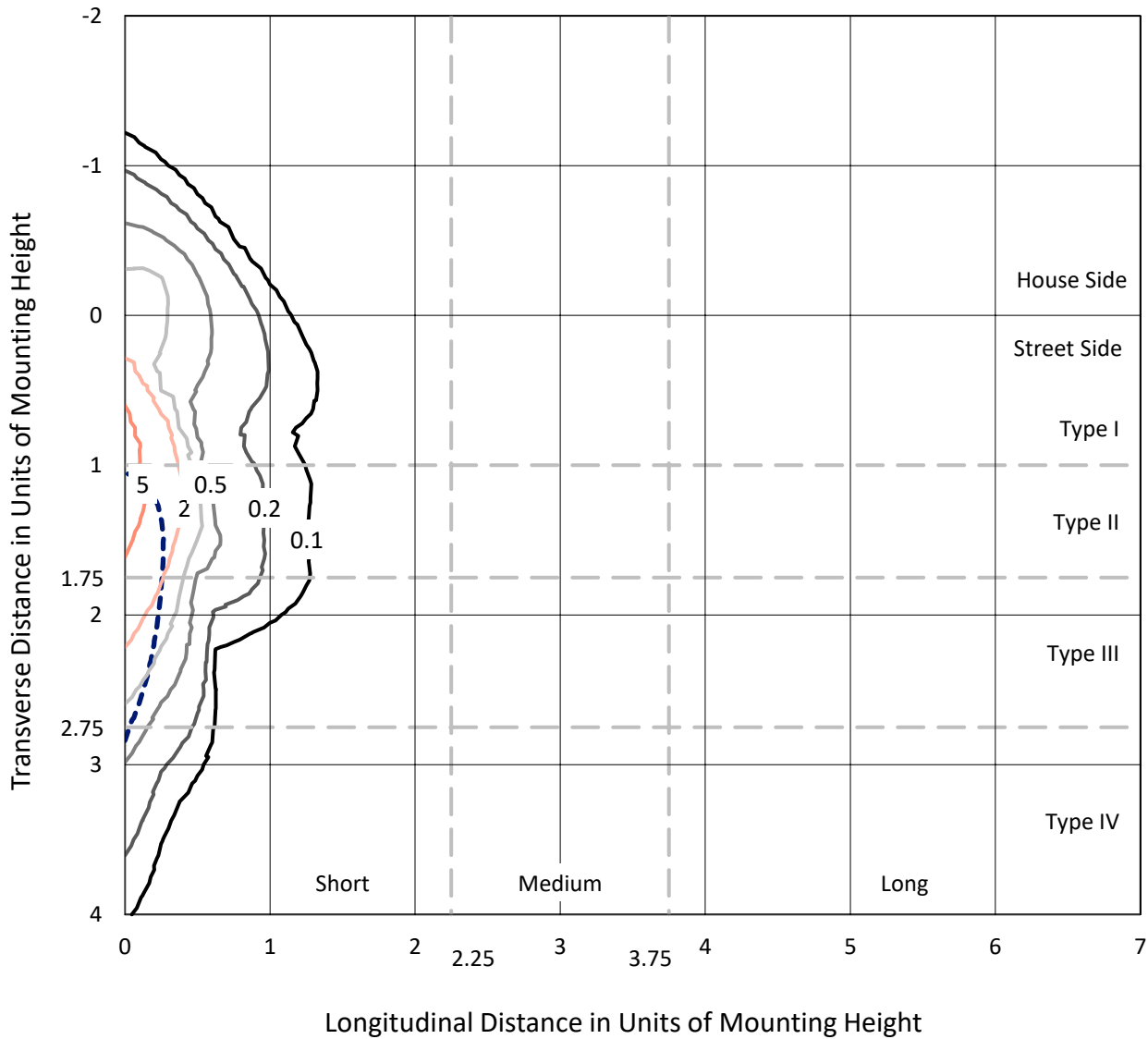
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

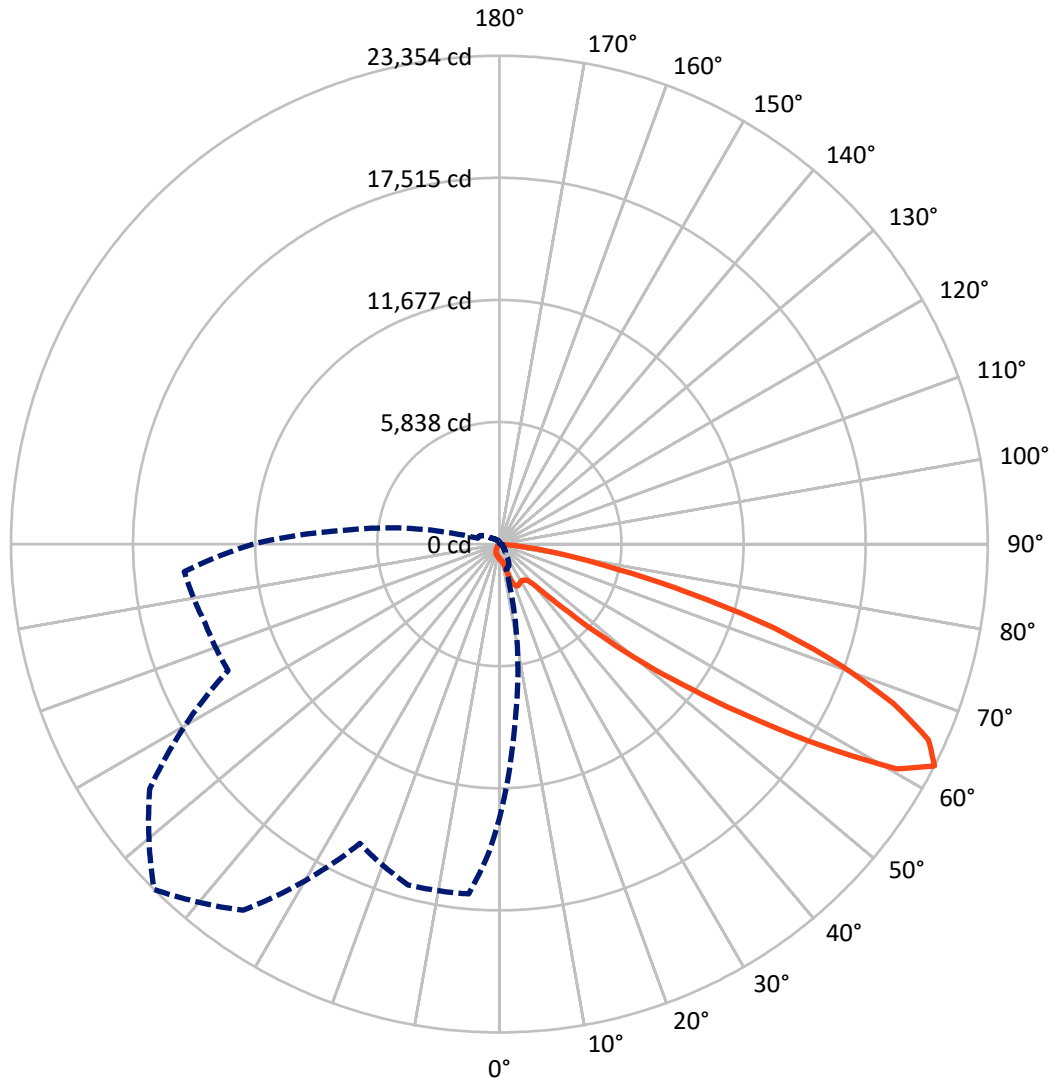
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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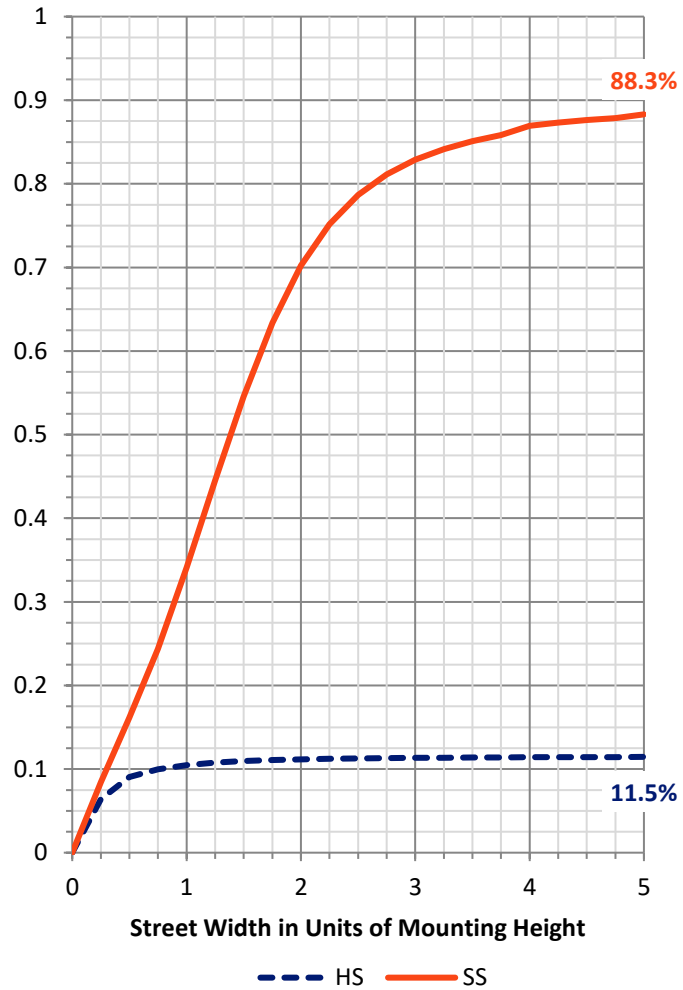
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1568.8	0.0	1568.8
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	11933.2	0.0	11933.2
	% Fixture	88.4	0.0	88.4
Total	Lumens	13502.0	0.0	13502.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.5	0.4
10°-20°	207.3	1.5
20°-30°	468.2	3.5
30°-40°	806.6	6.0
40°-50°	1521.6	11.3
50°-60°	3397.2	25.2
60°-70°	4543.7	33.7
70°-80°	2278.6	16.9
80°-90°	218.4	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°	13502.0	100.0
0°-180°	13502.0	100.0

Coefficient of Utilization

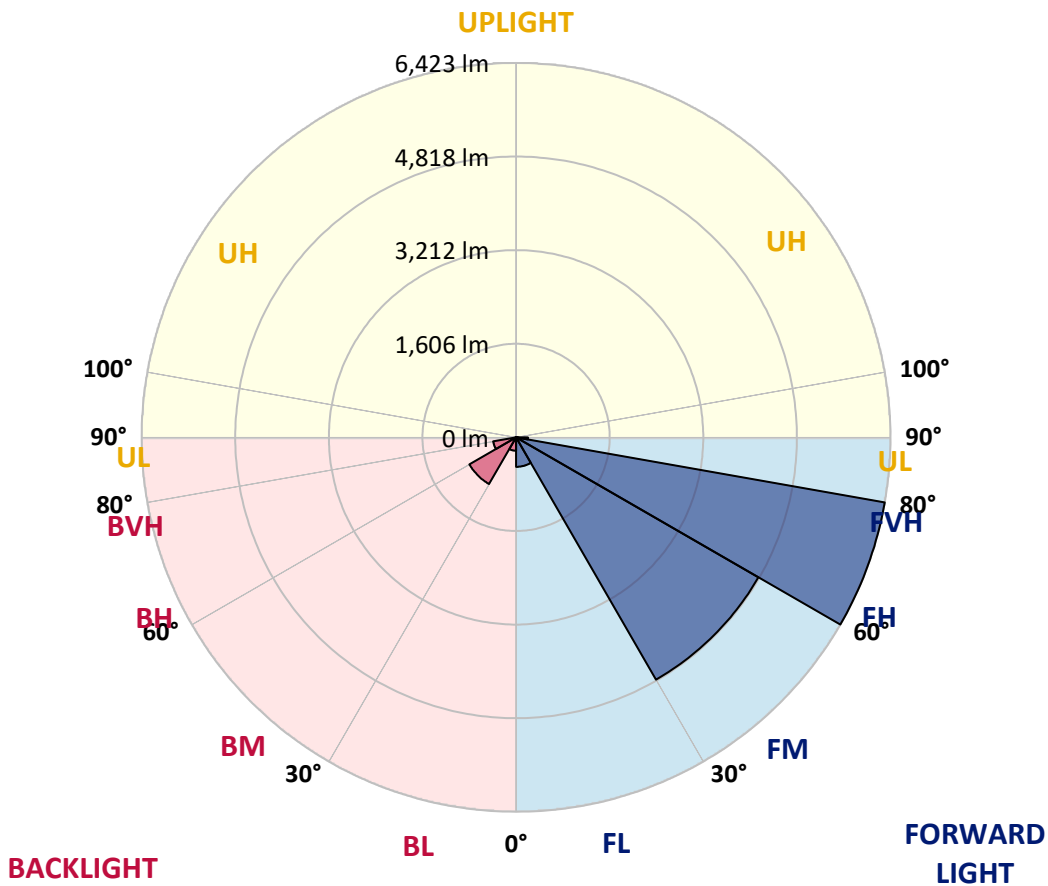


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	505.7	3.7			
FM (30°-60°)	4800.4	35.6			
FH (60°-80°)	6423.4	47.6			G3/7500
FVH (80°-90°)	203.9	1.5			G2/225
BL (0°-30°)	230.3	1.7	B1/500		
BM (30°-60°)	925.0	6.9	B1/1000		
BH (60°-80°)	398.9	3.0	B1/500		G1/500
BVH (80°-90°)	14.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	700.2	700.2	700.2	700.2	700.2	700.2	700.2	700.2	700.2	700.2	700.2
2.5°	692.2	690.6	687.4	677.9	669.9	665.1	655.5	655.5	653.9	650.7	644.3
5°	669.9	663.5	657.1	639.5	620.3	609.1	596.3	594.7	594.7	591.5	589.9
7.5°	634.7	628.3	620.3	591.5	573.9	562.7	551.6	550.0	545.2	545.2	545.2
10°	615.5	605.9	593.1	561.1	543.6	534.0	526.0	521.2	518.0	513.2	511.6
12.5°	657.1	639.5	612.3	554.8	530.8	518.0	508.4	505.2	495.6	489.2	484.4
15°	786.6	743.4	689.0	569.1	526.0	506.8	494.0	487.6	479.6	468.4	460.4
17.5°	999.2	936.8	845.7	615.5	521.2	497.2	481.2	470.0	458.8	446.0	436.4
20°	1293.4	1200.6	1091.9	700.2	521.2	486.0	466.8	452.4	436.4	422.1	410.9
22.5°	1667.5	1574.7	1389.3	844.1	527.6	471.6	449.2	430.1	410.9	398.1	385.3
25°	2086.3	1955.2	1782.6	1018.4	545.2	452.4	428.5	409.3	391.7	375.7	361.3
27.5°	2553.1	2410.8	2180.6	1266.2	583.5	433.2	406.1	388.5	372.5	356.5	337.3
30°	2983.2	2898.5	2663.4	1563.5	645.9	420.5	388.5	372.5	356.5	335.7	318.1
32.5°	3499.6	3349.3	3155.8	1902.5	729.0	407.7	374.1	351.7	338.9	319.7	300.6
35°	4019.1	3891.2	3637.1	2319.7	821.7	394.9	356.5	335.7	324.5	302.2	281.4
37.5°	4554.7	4525.9	4274.9	2781.7	912.9	380.5	335.7	322.9	311.7	286.2	262.2
40°	5082.3	5029.5	4797.7	3309.3	968.8	364.5	318.1	310.1	297.4	268.6	241.4
42.5°	5587.5	5547.5	5322.1	3814.5	960.8	350.1	300.6	291.0	281.4	252.6	219.0
45°	6207.8	6142.2	5857.7	4188.6	879.3	366.1	283.0	267.0	265.4	238.2	196.6
47.5°	7368.4	7152.6	6669.8	4476.4	797.8	407.7	263.8	244.6	255.8	223.8	174.3
50°	8994.3	8740.1	8041.5	4700.2	796.2	462.0	260.6	223.8	247.8	212.6	155.1
52.5°	10628.2	10180.6	9331.6	4820.1	855.3	502.0	289.4	203.0	238.2	201.4	140.7
55°	12193.3	11264.5	9872.0	4423.6	901.7	545.2	342.1	191.8	220.6	188.6	132.7
57.5°	13684.9	12135.8	10107.0	3499.6	1056.7	562.7	374.1	196.6	195.0	172.7	126.3
60°	13889.6	12094.2	9632.2	2035.2	1165.5	532.4	361.3	219.0	171.1	153.5	115.1
62.5°	13115.8	11290.1	8549.9	1269.4	1082.3	521.2	321.3	249.4	155.1	135.9	100.7
65°	11940.7	10028.7	7128.6	818.5	820.1	578.7	281.4	244.6	145.5	119.9	86.3
67.5°	10103.8	8393.2	5616.3	548.4	463.6	494.0	246.2	167.9	142.3	102.3	67.1
70°	7374.8	5974.4	3656.2	366.1	276.6	394.9	206.2	119.9	134.3	84.7	48.0
72.5°	5390.8	4014.4	2041.5	239.8	156.7	230.2	151.9	86.3	103.9	62.3	33.6
75°	3880.1	2762.6	1165.5	153.5	103.9	126.3	99.1	59.2	67.1	49.6	30.4
77.5°	1867.3	1346.1	529.2	84.7	70.3	63.9	52.8	36.8	41.6	44.8	27.2
80°	70.3	52.8	40.0	41.6	44.8	28.8	24.0	19.2	24.0	30.4	14.4
82.5°	0.0	0.0	0.0	4.8	6.4	8.0	9.6	8.0	9.6	11.2	1.6
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°	700.2	700.2	700.2	700.2	700.2	700.2	700.2	700.2	700.2	700.2	700.2
2.5°	649.1	645.9	649.1	652.3	655.5	658.7	653.9	657.1	660.3	652.3	655.5
5°	597.9	596.3	605.9	610.7	617.1	620.3	617.1	617.1	615.5	605.9	605.9
7.5°	553.2	554.8	562.7	573.9	581.9	586.7	583.5	581.9	577.1	562.7	562.7
10°	519.6	519.6	532.4	542.0	553.2	557.9	554.8	550.0	545.2	530.8	529.2
12.5°	492.4	492.4	502.0	518.0	530.8	537.2	535.6	529.2	521.2	506.8	505.2
15°	466.8	465.2	479.6	494.0	511.6	519.6	516.4	511.6	497.2	484.4	481.2
17.5°	441.2	439.6	452.4	471.6	490.8	502.0	500.4	489.2	476.4	460.4	457.2
20°	415.7	412.5	428.5	447.6	466.8	478.0	474.8	465.2	449.2	433.2	430.1
22.5°	390.1	388.5	399.7	415.7	433.2	442.8	441.2	433.2	417.3	402.9	402.9
25°	361.3	361.3	369.3	380.5	393.3	398.1	399.7	396.5	386.9	378.9	378.9
27.5°	337.3	332.5	335.7	338.9	345.3	353.3	353.3	356.5	358.1	354.9	356.5
30°	318.1	310.1	305.4	299.0	295.8	299.0	302.2	313.3	324.5	330.9	334.1
32.5°	295.8	286.2	273.4	255.8	244.6	241.4	251.0	271.8	292.6	307.0	314.9
35°	273.4	260.6	236.6	211.0	196.6	191.8	203.0	227.0	257.4	283.0	294.2
37.5°	251.0	233.4	199.8	169.5	153.5	150.3	161.5	187.0	222.2	257.4	271.8
40°	225.4	204.6	164.7	132.7	119.9	116.7	126.3	151.9	188.6	228.6	251.0
42.5°	199.8	174.3	132.7	105.5	92.7	92.7	105.5	124.7	158.3	201.4	228.6
45°	174.3	147.1	108.7	84.7	76.7	78.3	86.3	105.5	132.7	177.5	203.0
47.5°	150.3	126.3	89.5	70.3	63.9	65.5	75.1	91.1	113.5	153.5	180.7
50°	129.5	107.1	78.3	59.2	54.4	57.6	67.1	81.5	100.7	135.9	158.3
52.5°	116.7	95.9	71.9	51.2	48.0	51.2	60.8	73.5	91.1	119.9	142.3
55°	110.3	94.3	71.9	46.4	41.6	44.8	54.4	67.1	81.5	108.7	127.9
57.5°	108.7	97.5	76.7	41.6	35.2	38.4	48.0	60.8	75.1	99.1	115.1
60°	102.3	92.7	75.1	33.6	27.2	32.0	40.0	52.8	68.7	92.7	107.1
62.5°	89.5	81.5	65.5	27.2	20.8	24.0	33.6	46.4	62.3	84.7	100.7
65°	73.5	65.5	51.2	17.6	12.8	16.0	25.6	40.0	54.4	76.7	91.1
67.5°	54.4	46.4	35.2	11.2	6.4	11.2	20.8	33.6	49.6	68.7	83.1
70°	33.6	27.2	19.2	6.4	4.8	9.6	19.2	32.0	44.8	63.9	78.3
72.5°	19.2	12.8	8.0	3.2	4.8	9.6	19.2	32.0	43.2	60.8	73.5
75°	14.4	8.0	3.2	1.6	3.2	8.0	17.6	28.8	41.6	57.6	70.3
77.5°	9.6	4.8	1.6	0.0	1.6	6.4	16.0	27.2	38.4	54.4	67.1
80°	1.6	0.0	0.0	0.0	0.0	4.8	14.4	24.0	35.2	48.0	59.2
82.5°	0.0	0.0	0.0	0.0	0.0	1.6	11.2	20.8	30.4	40.0	48.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	6.4	16.0	24.0	30.4	33.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	16.0	19.2	22.4
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°	700.2	700.2	700.2	700.2	700.2	700.2	700.2	700.2	700.2	700.2	700.2
2.5°	653.9	663.5	663.5	669.9	677.9	692.2	700.2	711.4	719.4	727.4	730.6
5°	604.3	605.9	607.5	610.7	620.3	636.3	650.7	668.3	689.0	705.0	714.6
7.5°	562.7	562.7	562.7	567.5	577.1	588.3	602.7	626.7	650.7	669.9	685.8
10°	527.6	532.4	534.0	542.0	553.2	567.5	583.5	604.3	631.5	657.1	685.8
12.5°	505.2	510.0	518.0	526.0	537.2	553.2	570.7	597.9	653.9	706.6	767.4
15°	484.4	490.8	500.4	511.6	524.4	542.0	561.1	617.1	748.2	847.3	943.2
17.5°	462.0	471.6	484.4	495.6	511.6	530.8	554.8	663.5	920.9	1085.5	1248.6
20°	433.2	446.0	460.4	478.0	497.2	519.6	554.8	759.4	1170.3	1406.9	1622.7
22.5°	406.1	418.9	436.4	458.8	481.2	503.6	562.7	904.9	1491.6	1790.6	2063.9
25°	383.7	399.7	417.3	436.4	462.0	487.6	581.9	1109.5	1878.5	2263.8	2457.2
27.5°	362.9	382.1	399.7	415.7	438.0	466.8	625.1	1382.9	2335.7	2727.4	2879.3
30°	342.1	364.5	382.1	398.1	420.5	450.8	690.6	1731.4	2844.1	3224.6	3240.6
32.5°	324.5	345.3	366.1	382.1	402.9	438.0	781.8	2139.1	3365.3	3733.0	3582.7
35°	305.4	329.3	348.5	366.1	388.5	426.9	887.3	2578.7	3891.2	4199.8	3923.2
37.5°	286.2	313.3	337.3	350.1	372.5	415.7	964.0	3037.5	4428.4	4655.4	4222.2
40°	268.6	299.0	326.1	338.9	350.1	401.3	975.2	3507.6	4973.6	5104.7	4503.6
42.5°	249.4	283.0	307.0	324.5	334.1	391.7	908.1	3904.0	5430.8	5552.3	4871.3
45°	228.6	268.6	287.8	300.6	319.7	398.1	821.7	4211.0	5953.6	6163.0	5477.2
47.5°	207.8	252.6	268.6	278.2	303.8	436.4	789.8	4415.6	6815.3	7250.1	6498.7
50°	188.6	238.2	255.8	254.2	300.6	486.0	824.9	4570.7	8110.2	8621.8	7899.2
52.5°	167.9	222.2	243.0	236.6	324.5	524.4	895.3	4693.8	9106.2	10230.1	9780.9
55°	150.3	204.6	223.8	222.2	369.3	553.2	949.6	4044.7	9518.7	11724.9	11900.8
57.5°	137.5	185.4	201.4	228.6	398.1	553.2	1098.3	2871.3	9526.7	12824.8	14714.5
60°	126.3	167.9	179.1	251.0	386.9	524.4	1087.1	1758.6	8780.1	12749.7	16210.9
62.5°	116.7	151.9	166.3	257.4	342.1	519.6	981.6	1090.3	7488.3	11779.3	15125.4
65°	108.7	139.1	159.9	236.6	310.1	556.3	661.9	783.4	6073.5	10673.0	13880.0
67.5°	100.7	127.9	169.5	193.4	281.4	497.2	478.0	556.3	4767.3	9459.5	12736.9
70°	94.3	121.5	179.1	158.3	246.2	388.5	338.9	422.1	3649.8	7892.8	11127.0
72.5°	89.5	113.5	150.3	124.7	199.8	300.6	236.6	307.0	2385.3	6161.4	9071.1
75°	84.7	103.9	110.3	100.7	148.7	196.6	179.1	206.2	1421.2	4503.6	6882.4
77.5°	83.1	97.5	89.5	81.5	100.7	116.7	135.9	139.1	693.8	2252.6	3606.7
80°	73.5	87.9	76.7	67.1	68.7	76.7	100.7	92.7	158.3	572.3	962.4
82.5°	57.6	68.7	63.9	56.0	56.0	56.0	67.1	62.3	51.2	257.4	434.8
85°	40.0	48.0	48.0	44.8	43.2	43.2	41.6	40.0	14.4	16.0	24.0
87.5°	27.2	33.6	35.2	33.6	28.8	25.6	22.4	19.2	6.4	0.0	3.2
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°	358°	360°
0°	700.2	700.2	700.2	700.2	700.2	700.2	700.2	700.2	700.2	700.2
2.5°	741.8	746.6	746.6	740.2	735.4	722.6	709.8	697.0	693.8	692.2
5°	741.8	761.0	770.6	769.0	757.8	737.0	709.8	681.0	673.1	669.9
7.5°	730.6	767.4	796.2	801.0	780.2	743.4	693.8	650.7	639.5	634.7
10°	756.2	828.1	885.7	893.7	869.7	797.8	717.8	644.3	626.7	615.5
12.5°	893.7	1012.0	1082.3	1115.9	1069.5	978.4	845.7	714.6	674.7	657.1
15°	1171.9	1339.7	1474.0	1474.0	1430.8	1269.4	1101.5	888.9	834.5	786.6
17.5°	1528.4	1739.4	1857.7	1844.9	1779.4	1665.9	1464.4	1159.1	1048.8	999.2
20°	1934.4	2060.7	2087.9	2079.9	2051.1	1985.6	1846.5	1518.8	1370.1	1293.4
22.5°	2286.1	2252.6	2212.6	2180.6	2172.6	2191.8	2172.6	1920.0	1803.3	1667.5
25°	2524.4	2334.1	2214.2	2156.7	2183.8	2294.1	2414.0	2319.7	2227.0	2086.3
27.5°	2653.9	2324.5	2151.9	2092.7	2139.1	2295.7	2556.3	2716.2	2620.3	2553.1
30°	2724.2	2316.5	2111.9	2054.3	2124.7	2321.3	2655.5	3087.1	3090.3	2983.2
32.5°	2824.9	2367.7	2119.9	2067.1	2161.5	2398.1	2780.1	3464.4	3557.1	3499.6
35°	2938.4	2446.0	2156.7	2108.7	2225.4	2500.4	2919.2	3844.9	4038.3	4019.1
37.5°	3045.5	2533.9	2243.0	2196.6	2322.9	2588.3	3053.5	4219.0	4487.6	4554.7
40°	3157.4	2657.0	2508.4	2553.1	2623.5	2727.4	3173.4	4543.5	4981.6	5082.3
42.5°	3421.2	3083.9	3310.9	3395.7	3405.2	3191.0	3435.6	4959.2	5467.6	5587.5
45°	4009.6	3843.3	4494.0	4613.9	4551.5	3902.4	4067.1	5558.7	6147.0	6207.8
47.5°	4753.0	4829.7	6113.5	6527.5	6153.4	4741.8	4832.9	6820.1	7390.8	7368.4
50°	5619.5	5982.4	7952.0	8928.8	8033.5	5832.1	5715.4	8370.8	9063.1	8994.3
52.5°	6644.2	7322.1	10161.4	11549.1	10701.7	7058.3	7010.3	10425.2	10847.2	10628.2
55°	7934.4	8615.4	12703.3	14642.5	13437.1	8554.7	8719.3	12807.2	12888.8	12193.3
57.5°	9859.2	10302.1	15699.3	18190.1	16292.4	10588.2	11782.5	15977.5	15002.3	13684.9
60°	13354.0	12471.5	18594.5	21819.1	19330.0	13448.3	15822.4	17855.9	15705.7	13889.6
62.5°	14570.6	14313.2	20407.5	23353.9	21373.1	15796.8	16872.7	16791.2	14794.4	13115.8
65°	12727.3	13854.4	20082.9	22543.3	21110.9	15409.9	15141.3	15616.2	13768.1	11940.7
67.5°	11756.9	12776.9	18853.5	20306.8	19657.7	14097.4	13496.3	13366.8	11558.6	10103.8
70°	10778.5	11788.9	17071.0	17251.6	16949.5	11958.3	11168.6	10300.5	8639.4	7374.8
72.5°	9601.8	10158.2	14597.8	13740.9	13398.8	9392.4	9226.1	7756.9	6476.4	5390.8
75°	8374.0	8212.6	11381.2	9430.8	9686.6	7307.7	7792.1	5696.2	4745.0	3880.1
77.5°	6091.1	5971.2	7622.6	5728.2	6343.7	4786.5	4300.5	2273.4	2164.6	1867.3
80°	3398.8	4097.5	4116.7	3210.2	4004.8	3120.7	1075.9	75.1	48.0	70.3
82.5°	1579.5	1761.8	2231.8	1488.4	2284.6	1545.9	222.2	0.0	0.0	0.0
85°	511.6	748.2	626.7	219.0	553.2	522.8	36.8	0.0	0.0	0.0
87.5°	30.4	62.3	16.0	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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