

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: P631280

Luminaire Tested: GWS-SA1F-735-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631280
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-SA1F-735-U-SLR-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5156.8 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

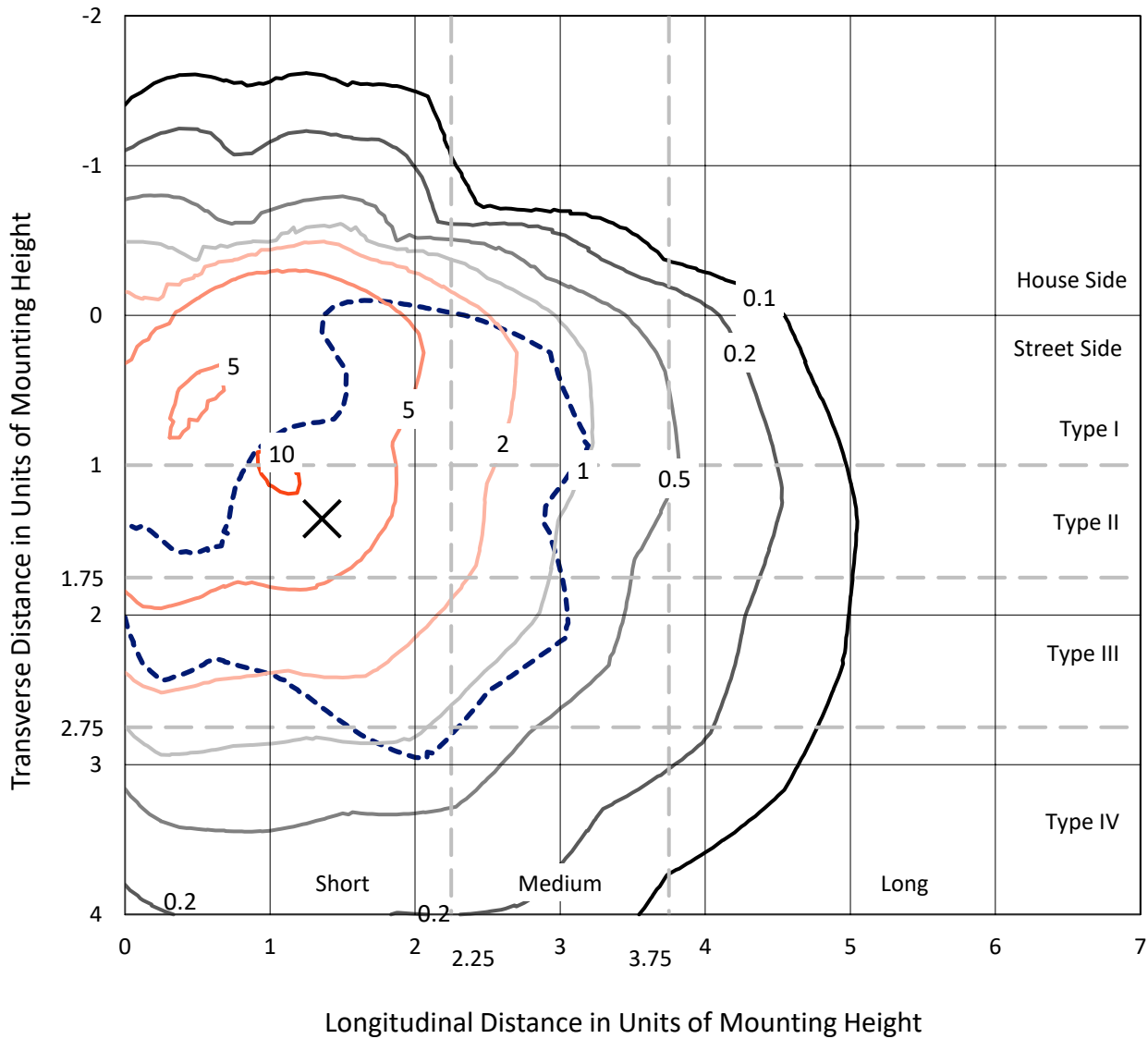
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

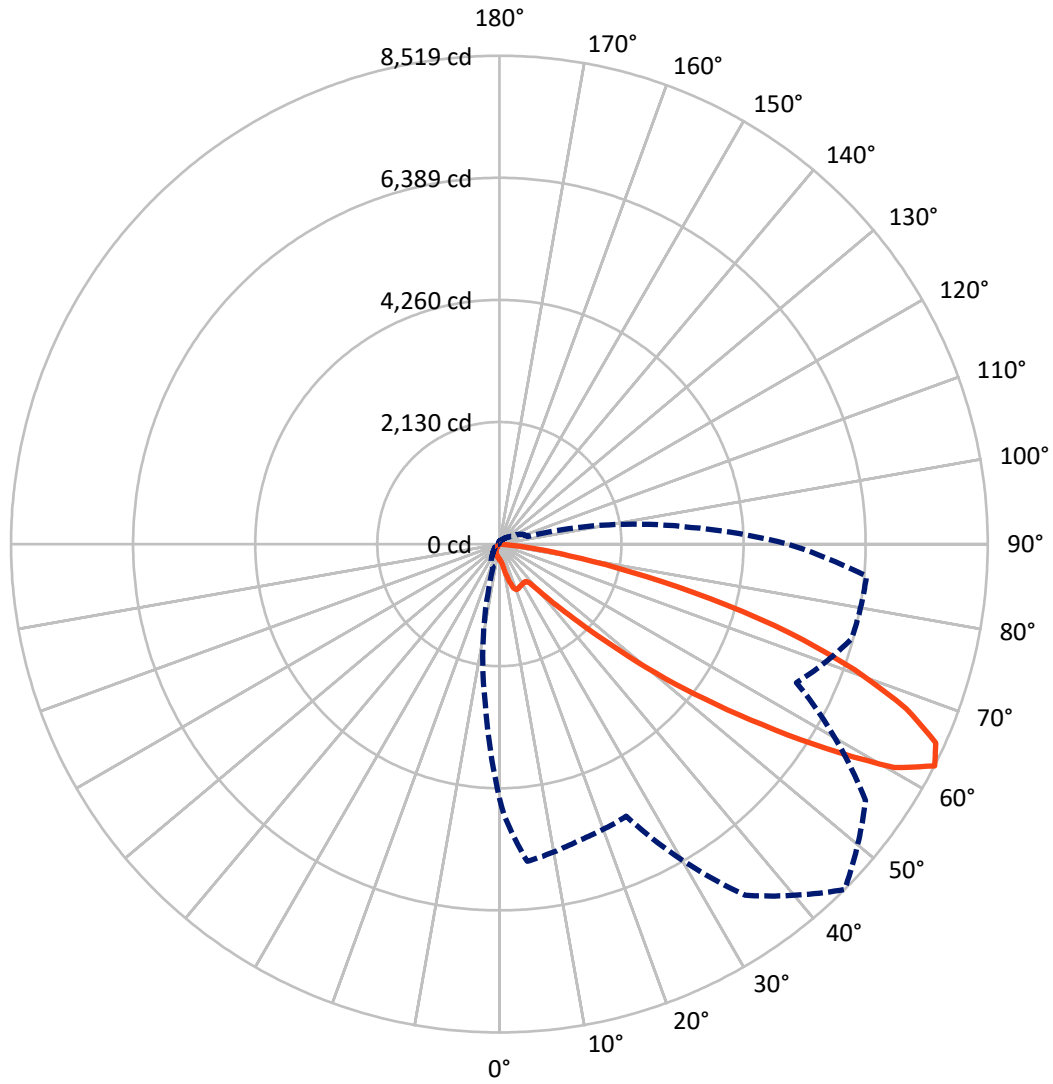
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.5 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	636.4	0.0	636.4
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	4520.5	0.0	4520.5
	% Fixture	87.7	0.0	87.7
Total	Lumens	5156.8	0.0	5156.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.8	0.5
10°-20°	89.9	1.7
20°-30°	195.4	3.8
30°-40°	320.8	6.2
40°-50°	589.7	11.4
50°-60°	1266.4	24.6
60°-70°	1701.0	33.0
70°-80°	885.7	17.2
80°-90°	84.0	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°	5156.8	100.0
0°-180°	5156.8	100.0

Coefficient of Utilization

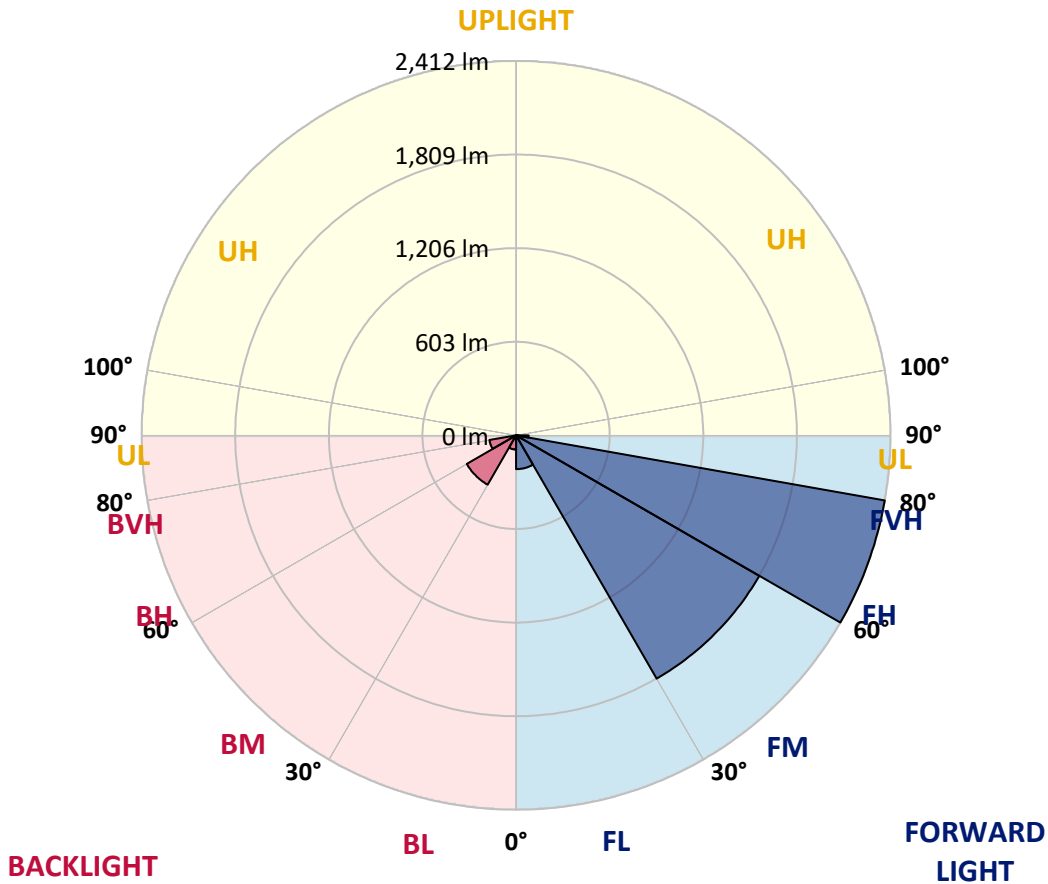


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	217.8	4.2			
FM (30°-60°)	1810.0	35.1			
FH (60°-80°)	2412.4	46.8			G2/5000
FVH (80°-90°)	80.2	1.6			G1/100
BL (0°-30°)	91.3	1.8	B0/110		
BM (30°-60°)	367.0	7.1	B1/1000		
BH (60°-80°)	174.4	3.4	B1/500		G1/500
BVH (80°-90°)	3.7	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-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	268.0	268.0	268.0	268.0	268.0	268.0	268.0	268.0	268.0	268.0	268.0
2.5°	273.4	274.6	275.8	280.0	282.9	285.3	285.9	284.1	280.0	275.8	269.8
5°	265.1	266.3	270.4	281.7	293.1	302.0	305.0	303.2	293.1	280.0	266.3
7.5°	264.5	266.9	277.0	300.8	325.2	343.7	348.5	344.3	325.2	299.0	271.0
10°	285.9	290.1	305.0	347.9	392.5	425.3	438.4	420.5	390.2	342.5	296.6
12.5°	341.9	349.1	377.6	440.2	509.3	552.8	570.6	548.6	500.9	431.9	359.2
15°	430.1	440.8	483.7	577.2	658.8	697.5	703.5	691.0	635.6	559.3	461.6
17.5°	554.6	570.0	636.8	732.1	791.0	804.7	802.9	789.8	749.3	696.9	604.6
20°	703.5	721.9	787.5	866.1	872.0	856.0	847.0	839.3	825.6	816.6	744.6
22.5°	853.6	876.2	944.7	964.4	910.8	864.3	842.3	848.2	868.5	912.5	883.4
25°	1003.1	1024.5	1088.9	1035.8	928.6	851.2	823.2	837.5	885.7	981.0	1018.6
27.5°	1177.6	1193.7	1231.8	1084.7	931.6	840.5	813.1	835.1	894.1	1023.9	1166.9
30°	1359.3	1368.8	1350.4	1097.8	921.5	824.4	802.9	835.1	908.4	1052.5	1278.3
32.5°	1492.7	1494.5	1434.3	1099.0	916.1	811.3	793.4	831.5	922.1	1076.4	1386.1
35°	1630.3	1621.4	1514.8	1116.9	930.4	816.1	800.6	841.7	943.5	1104.3	1480.8
37.5°	1769.7	1753.6	1604.7	1146.0	967.3	867.9	858.3	893.5	978.1	1143.1	1585.0
40°	1912.7	1890.6	1698.2	1190.1	1049.5	1044.2	1076.9	1072.8	1072.8	1192.5	1692.3
42.5°	2087.2	2061.6	1836.4	1314.6	1241.3	1361.1	1450.4	1395.0	1292.6	1306.3	1831.6
45°	2317.7	2295.7	2075.9	1552.9	1542.2	1817.3	1937.7	1828.1	1573.1	1569.0	2064.5
47.5°	2686.4	2682.2	2457.7	1829.3	1910.3	2398.1	2630.4	2419.6	1893.0	1847.1	2505.3
50°	3204.6	3192.1	2933.6	2153.3	2348.1	3117.7	3532.2	3180.8	2279.6	2171.8	3095.6
52.5°	3788.4	3801.5	3600.2	2507.1	2813.3	3918.2	4495.4	4052.9	2699.5	2584.6	3838.4
55°	4338.2	4413.2	4360.2	2921.1	3267.8	4802.2	5553.3	5009.5	3219.5	3124.8	4671.1
57.5°	4768.2	4979.7	5351.4	3522.7	3802.1	5836.2	6734.5	6046.5	3826.5	4002.2	5804.7
60°	4792.1	5072.0	5935.1	4781.3	4489.5	6723.2	7913.9	7059.7	4780.7	5492.0	6692.8
62.5°	4432.9	4733.1	5555.1	5353.2	5238.2	7477.9	8519.1	7798.3	5719.5	6364.6	6429.5
65°	4021.9	4325.1	5131.0	4704.5	5151.2	7445.7	8365.4	7815.6	5804.7	5771.3	5958.4
67.5°	3400.6	3672.8	4402.5	4164.2	4748.0	7086.5	7655.4	7323.0	5347.8	5397.8	5481.2
70°	2482.1	2744.2	3421.5	3433.4	4146.4	6439.1	6577.8	6532.0	4924.9	4977.9	4739.6
72.5°	1792.9	2013.9	2598.3	2815.7	3310.1	5399.6	5303.7	5480.6	4225.6	4433.5	3806.8
75°	1289.0	1454.6	1906.1	2449.3	2623.9	4010.0	3796.7	4244.7	3390.5	3817.6	2862.1
77.5°	523.0	581.4	749.9	1650.0	1724.4	2697.7	2324.3	3083.1	2417.2	2508.3	1387.3
80°	21.4	23.8	31.0	851.8	1182.4	1517.7	1243.7	1648.2	1596.4	1010.2	327.6
82.5°	2.4	2.4	5.4	245.4	517.6	837.5	586.1	949.5	808.3	428.3	148.9
85°	0.6	0.6	1.2	28.0	121.5	134.0	79.2	291.3	375.9	175.1	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	5.4	6.0	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°	268.0	268.0	268.0	268.0	268.0	268.0	268.0	268.0	268.0	268.0	268.0
2.5°	269.8	266.9	263.3	259.7	257.9	253.2	251.4	250.2	249.0	249.6	249.6
5°	260.9	254.3	246.6	238.9	234.7	229.9	227.5	226.3	226.9	229.3	229.3
7.5°	259.7	247.2	230.5	220.4	215.6	212.1	209.7	208.5	209.1	212.1	213.2
10°	279.4	257.3	227.5	210.3	204.9	201.3	198.9	197.2	196.0	198.4	198.9
12.5°	321.7	291.3	241.8	209.1	199.5	194.8	193.0	189.4	187.6	188.8	189.4
15°	409.2	356.8	270.4	213.8	194.8	189.4	186.4	183.5	180.5	179.9	180.5
17.5°	523.6	448.5	313.9	225.2	191.2	184.7	180.5	176.3	172.1	171.5	171.0
20°	665.3	561.1	374.7	243.0	188.2	180.5	174.5	168.6	163.2	161.4	161.4
22.5°	794.6	696.9	452.7	265.1	184.1	174.5	167.4	160.2	154.3	151.3	150.7
25°	952.5	841.1	546.2	290.7	178.1	166.8	159.0	151.9	145.9	142.4	141.2
27.5°	1111.5	993.0	652.2	324.0	171.0	159.0	151.9	145.3	138.8	134.6	133.4
30°	1265.8	1156.8	771.4	365.7	165.6	151.3	145.3	138.8	132.8	126.3	124.5
32.5°	1431.4	1324.1	904.8	412.2	161.4	145.9	139.4	133.4	125.7	119.7	116.7
35°	1591.0	1496.9	1051.9	457.5	157.3	141.2	134.0	128.1	119.7	113.2	109.0
37.5°	1751.8	1672.6	1205.6	484.9	151.3	134.6	128.1	123.3	113.8	106.0	101.3
40°	1922.2	1854.3	1371.8	473.5	145.9	127.5	123.9	118.5	107.8	98.9	92.9
42.5°	2109.2	2027.6	1541.0	430.1	141.2	121.5	117.9	112.6	102.5	91.7	84.0
45°	2344.5	2217.6	1679.8	364.5	143.6	115.6	108.4	107.2	97.7	84.0	74.5
47.5°	2749.0	2509.5	1787.6	322.3	159.6	109.0	100.7	103.6	93.5	76.2	65.5
50°	3367.8	2993.2	1888.2	319.3	184.1	106.0	93.5	101.3	89.3	68.5	57.8
52.5°	3957.5	3484.6	1952.6	345.5	205.5	113.8	86.4	98.3	86.4	63.1	52.4
55°	4521.6	3768.1	1837.6	364.5	225.8	137.0	81.0	93.5	82.8	60.2	50.6
57.5°	5129.8	3894.4	1446.9	403.3	240.0	156.7	82.2	86.4	78.0	58.4	50.0
60°	5311.5	3733.0	873.2	453.9	232.3	162.6	91.1	76.8	71.5	54.8	48.2
62.5°	5029.1	3350.0	515.2	413.4	225.8	153.7	104.2	70.9	64.9	50.0	44.7
65°	4606.8	2830.0	336.0	349.1	239.5	137.0	110.8	67.9	59.0	45.3	39.3
67.5°	4124.3	2279.6	235.3	206.1	221.0	123.3	93.5	67.3	53.0	38.1	32.2
70°	3473.9	1707.2	165.6	136.4	184.1	109.6	72.7	65.5	46.5	31.0	25.0
72.5°	2684.0	1068.6	123.3	88.2	131.0	89.3	57.8	55.4	37.5	25.6	19.1
75°	1979.4	609.4	87.0	63.7	86.4	67.9	42.9	39.3	32.2	24.4	17.3
77.5°	1033.5	305.0	54.2	48.8	49.4	42.3	31.0	28.6	29.8	24.4	16.1
80°	198.4	60.8	32.8	35.7	26.8	26.8	22.6	23.8	26.2	19.7	13.7
82.5°	82.8	13.1	17.9	20.3	16.7	18.5	18.5	19.1	18.5	14.3	10.1
85°	0.0	0.0	7.7	8.3	11.3	11.3	9.5	9.5	9.5	8.3	6.0
87.5°	0.0	0.0	0.0	0.0	0.6	1.8	3.6	4.2	4.8	3.6	2.4
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°	268.0	268.0	268.0	268.0	268.0	268.0	268.0	268.0	268.0	268.0	268.0
2.5°	249.0	247.8	249.6	250.8	252.0	252.0	250.8	249.6	247.8	249.6	247.8
5°	229.9	231.7	234.7	235.9	237.1	234.7	233.5	229.9	226.9	227.5	226.3
7.5°	215.0	216.8	220.4	222.8	222.8	221.6	218.0	214.4	209.7	209.7	209.1
10°	201.3	203.7	207.9	210.9	212.1	210.9	207.3	202.5	198.4	198.4	196.6
12.5°	190.0	193.0	197.8	201.9	203.1	201.9	198.4	193.6	188.8	188.8	187.6
15°	180.5	184.1	189.4	194.2	196.0	194.2	190.0	184.1	179.3	179.9	178.1
17.5°	171.5	174.5	181.7	187.0	188.8	187.0	181.7	173.9	169.2	170.4	169.2
20°	161.4	165.0	172.1	178.1	179.9	178.1	172.1	163.8	159.0	159.0	159.6
22.5°	150.7	154.3	161.4	165.6	168.0	166.2	160.2	152.5	147.7	147.7	148.3
25°	141.2	143.0	148.3	152.5	153.1	151.3	146.5	140.6	137.0	138.8	139.4
27.5°	132.2	132.2	134.6	137.0	136.4	134.6	132.8	128.1	127.5	129.3	131.0
30°	122.7	119.7	118.5	116.7	116.2	115.6	117.3	117.3	118.5	120.9	122.7
32.5°	114.4	108.4	103.0	97.7	94.7	97.1	101.9	106.0	110.2	113.8	115.6
35°	104.8	95.3	86.4	79.2	74.5	78.0	85.8	93.5	100.7	105.4	108.4
37.5°	95.3	81.6	70.9	61.9	58.4	61.4	69.7	80.4	91.1	97.1	101.3
40°	85.2	67.9	55.4	48.2	44.7	47.7	56.0	66.7	81.0	88.8	94.1
42.5°	75.1	56.0	44.7	37.5	35.7	37.5	44.1	54.8	70.3	79.8	87.0
45°	64.9	46.5	35.7	30.4	28.6	30.4	35.7	44.7	60.2	70.9	79.2
47.5°	56.0	39.3	29.8	25.0	23.8	25.6	29.8	37.5	50.6	61.4	70.9
50°	48.8	34.5	25.6	21.4	20.3	22.0	25.6	31.6	42.9	52.4	62.5
52.5°	44.1	32.2	22.6	18.5	17.9	19.1	22.0	26.8	36.3	44.7	54.2
55°	42.9	32.2	20.8	16.7	16.1	17.3	19.7	23.2	31.6	38.7	47.1
57.5°	44.1	34.5	19.7	14.3	13.7	14.9	17.3	20.3	27.4	33.4	41.1
60°	44.1	35.1	17.3	11.3	10.7	11.9	14.3	17.9	24.4	29.2	35.7
62.5°	39.9	32.2	14.3	8.9	7.7	8.9	11.9	14.9	21.4	26.2	31.6
65°	34.5	27.4	11.9	6.6	5.4	6.6	9.5	12.5	18.5	22.6	28.6
67.5°	28.0	20.8	8.9	4.8	3.6	4.8	7.1	10.1	15.5	19.7	25.6
70°	20.8	14.9	7.1	4.2	3.6	4.2	6.6	9.5	13.7	17.9	23.8
72.5°	15.5	10.1	6.0	4.2	3.0	4.2	6.0	8.9	13.1	17.3	22.6
75°	13.1	8.3	5.4	3.6	3.0	3.6	5.4	8.3	11.9	16.1	21.4
77.5°	12.5	7.7	4.8	3.0	2.4	3.0	4.8	7.1	10.7	14.9	20.8
80°	10.7	6.6	4.2	2.4	1.8	2.4	4.2	6.0	8.3	11.3	16.1
82.5°	8.3	5.4	3.0	1.2	0.6	1.2	3.0	3.6	5.4	6.6	9.5
85°	5.4	3.0	1.2	0.0	0.0	0.0	1.2	2.4	2.4	3.0	4.8
87.5°	2.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.2	1.8
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	268.0	268.0	268.0	268.0	268.0	268.0	268.0	268.0	268.0	268.0
2.5°	251.4	252.0	253.2	254.9	259.1	262.7	266.3	271.0	273.4	273.4
5°	227.5	228.1	228.7	231.1	237.1	241.8	249.6	259.1	263.9	265.1
7.5°	209.1	210.3	211.5	213.2	219.2	225.8	235.9	253.7	262.7	264.5
10°	198.4	200.1	202.5	206.1	211.5	218.6	235.9	268.0	282.9	285.9
12.5°	190.0	193.0	195.4	199.5	206.1	217.4	252.0	308.6	334.8	341.9
15°	181.7	185.2	188.8	193.0	200.1	221.6	282.9	381.2	424.7	430.1
17.5°	173.3	177.5	182.3	187.0	196.0	231.7	331.8	481.9	542.6	554.6
20°	163.8	169.2	175.7	181.7	191.8	247.8	399.7	601.6	677.9	703.5
22.5°	153.7	160.2	168.0	175.7	187.0	267.5	481.9	730.3	836.9	853.6
25°	145.3	151.9	159.0	166.8	179.3	291.3	581.4	889.9	987.0	1003.1
27.5°	137.6	144.1	150.7	157.8	171.5	322.3	701.1	1059.7	1160.9	1177.6
30°	129.3	137.0	143.6	150.7	164.4	360.4	839.3	1247.9	1343.8	1359.3
32.5°	122.1	129.9	136.4	143.6	159.0	402.1	984.6	1414.7	1492.7	1492.7
35°	116.2	124.5	129.3	138.8	154.9	428.9	1122.2	1573.7	1632.7	1630.3
37.5°	109.6	119.7	123.3	129.9	149.5	431.9	1251.5	1741.7	1785.2	1769.7
40°	103.0	113.8	119.1	122.7	143.6	407.4	1393.2	1896.0	1932.9	1912.7
42.5°	97.1	105.4	113.2	117.3	140.0	364.5	1507.0	2061.0	2105.1	2087.2
45°	91.1	98.3	103.0	110.8	142.4	334.8	1604.7	2253.4	2330.8	2317.7
47.5°	85.2	91.1	94.1	106.0	158.4	321.1	1664.3	2551.2	2697.1	2686.4
50°	78.6	85.8	85.8	104.8	182.3	325.8	1716.1	2982.5	3208.2	3204.6
52.5°	72.1	79.8	78.6	113.8	200.7	347.9	1775.1	3363.1	3755.6	3788.4
55°	65.5	72.7	73.9	131.6	211.5	366.9	1546.9	3523.3	4223.2	4338.2
57.5°	58.4	62.5	76.8	145.3	207.9	422.3	1059.7	3552.5	4521.6	4768.2
60°	50.6	54.2	87.0	142.4	196.6	390.2	667.1	3290.4	4479.3	4792.1
62.5°	44.1	50.0	91.7	125.7	200.1	338.3	425.3	2804.4	4076.1	4432.9
65°	38.7	48.2	83.4	113.8	202.5	229.3	287.1	2281.4	3682.4	4021.9
67.5°	34.5	53.6	68.5	101.3	173.9	161.4	197.2	1772.7	3096.2	3400.6
70°	31.6	54.8	56.0	87.0	134.6	103.6	129.9	1193.1	2134.2	2482.1
72.5°	28.6	40.5	42.3	69.7	87.0	63.1	84.0	682.6	1555.9	1792.9
75°	27.4	27.4	29.2	45.3	48.2	45.9	54.2	407.4	1115.7	1289.0
77.5°	25.6	20.8	18.5	29.2	26.2	32.8	32.2	181.1	483.7	523.0
80°	20.3	14.9	12.5	18.5	17.9	22.0	19.1	14.9	22.0	21.4
82.5°	12.5	9.5	8.9	11.3	10.1	11.3	8.9	2.4	2.4	2.4
85°	6.0	5.4	4.8	4.8	5.4	4.8	3.6	1.2	0.6	0.6
87.5°	3.0	3.0	2.4	1.8	2.4	2.4	1.8	0.6	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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