

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: P633920

Luminaire Tested: GWS-SA2F-760-U-SLR-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633920  
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-SA2F-760-U-SLR-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

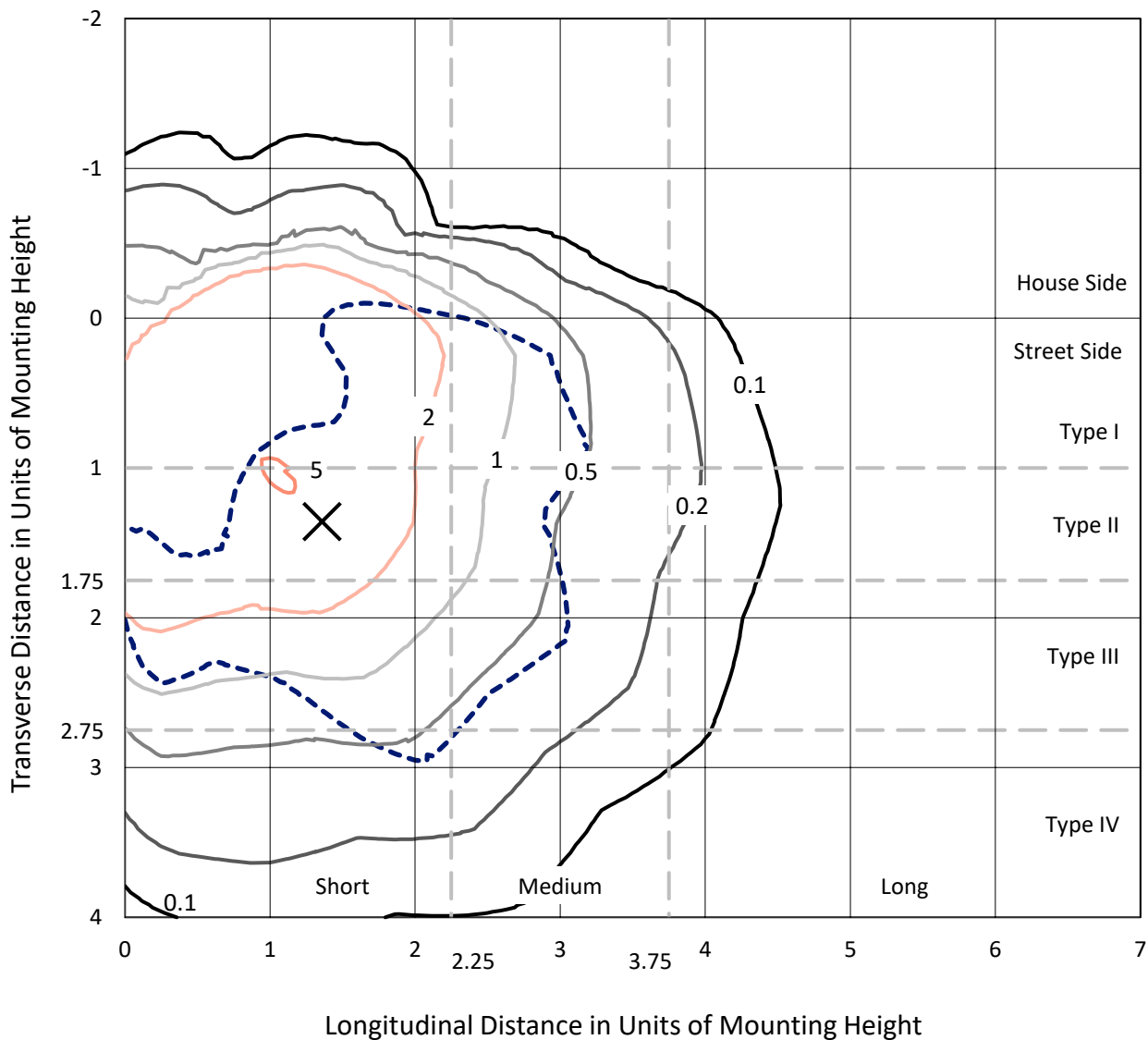
Lumens per Lamp: N/A  
Luminaire Lumens: 10157.2 lumens  
Efficiency: N/A  
Efficacy: 81.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): 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

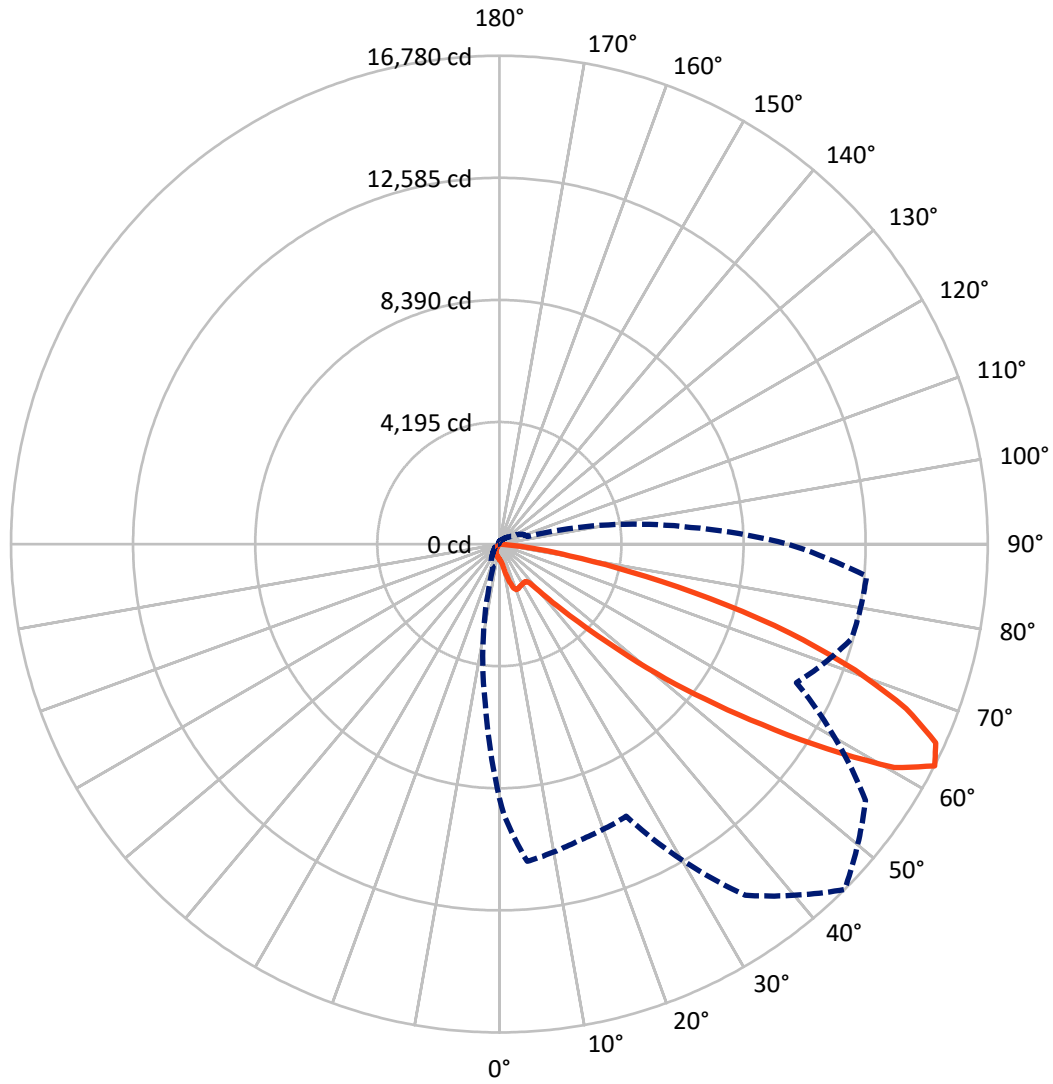
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.2 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
<b>House Side</b>	Lumens	1253.4	0.0	1253.4
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	8903.8	0.0	8903.8
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	10157.2	0.0	10157.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.8	0.5
10°-20°	177.1	1.7
20°-30°	385.0	3.8
30°-40°	631.8	6.2
40°-50°	1161.5	11.4
50°-60°	2494.5	24.6
60°-70°	3350.5	33.0
70°-80°	1744.6	17.2
80°-90°	165.4	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°	10157.2	100.0
0°-180°	10157.2	100.0

**Coefficient of Utilization**

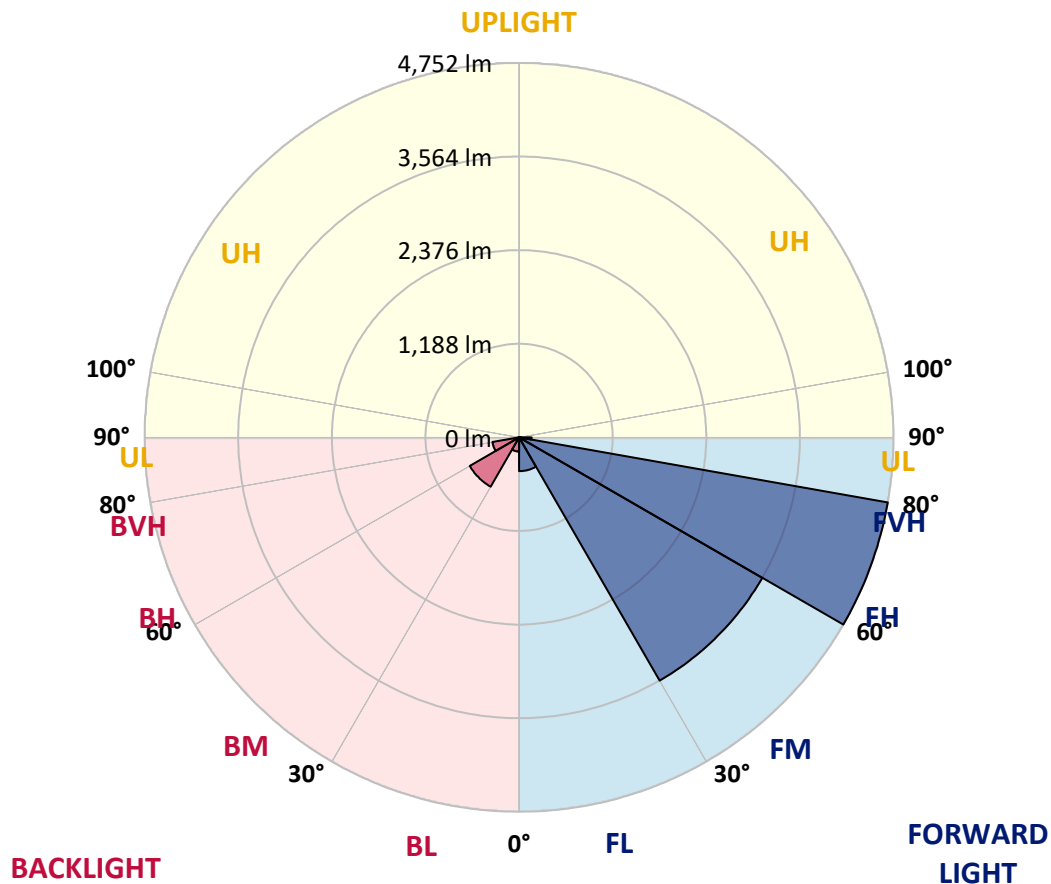


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	429.1	4.2			
FM (30°-60°)	3565.1	35.1			
FH (60°-80°)	4751.6	46.8			G2/5000
FVH (80°-90°)	158.0	1.6			G2/225
BL (0°-30°)	179.8	1.8	B1/500		
BM (30°-60°)	722.8	7.1	B1/1000		
BH (60°-80°)	343.4	3.4	B1/500		G1/500
BVH (80°-90°)	7.4	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°	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0
2.5°	538.5	540.9	543.2	551.4	557.3	562.0	563.2	559.6	551.4	543.2	531.5
5°	522.1	524.4	532.7	554.9	577.2	594.8	600.7	597.2	577.2	551.4	524.4
7.5°	520.9	525.6	545.6	592.5	640.6	677.0	686.4	678.1	640.6	589.0	533.8
10°	563.2	571.4	600.7	685.2	773.2	837.7	863.5	828.3	768.5	674.6	584.3
12.5°	673.4	687.5	743.8	867.0	1003.1	1088.8	1124.0	1080.6	986.7	850.6	707.5
15°	847.1	868.2	952.7	1136.9	1297.6	1373.9	1385.6	1361.0	1251.9	1101.7	909.3
17.5°	1092.3	1122.8	1254.2	1441.9	1558.1	1585.1	1581.5	1555.7	1475.9	1372.7	1190.8
20°	1385.6	1422.0	1551.0	1705.9	1717.6	1686.0	1668.4	1653.1	1626.1	1608.5	1466.6
22.5°	1681.3	1725.8	1860.8	1899.5	1793.9	1702.4	1659.0	1670.7	1710.6	1797.4	1739.9
25°	1975.8	2018.0	2144.7	2040.3	1829.1	1676.6	1621.4	1649.6	1744.6	1932.3	2006.3
27.5°	2319.5	2351.2	2426.3	2136.5	1835.0	1655.5	1601.5	1644.9	1761.0	2016.8	2298.4
30°	2677.4	2696.1	2659.8	2162.3	1815.0	1623.8	1581.5	1644.9	1789.2	2073.1	2517.8
32.5°	2940.2	2943.7	2825.2	2164.6	1804.5	1598.0	1562.8	1637.9	1816.2	2120.1	2730.1
35°	3211.2	3193.6	2983.6	2199.8	1832.6	1607.4	1576.8	1657.8	1858.4	2175.2	2916.7
37.5°	3485.7	3454.0	3160.7	2257.3	1905.4	1709.4	1690.7	1759.9	1926.5	2251.5	3122.0
40°	3767.3	3723.9	3344.9	2344.2	2067.3	2056.7	2121.2	2113.0	2113.0	2348.8	3333.2
42.5°	4111.1	4060.6	3617.1	2589.4	2445.0	2680.9	2856.9	2747.7	2545.9	2572.9	3607.7
45°	4565.1	4521.7	4088.8	3058.7	3037.5	3579.6	3816.6	3600.7	3098.5	3090.3	4066.5
47.5°	5291.4	5283.1	4840.8	3603.0	3762.6	4723.5	5181.1	4765.7	3728.6	3638.2	4934.7
50°	6312.1	6287.4	5778.2	4241.3	4624.9	6140.8	6957.4	6265.1	4490.0	4277.7	6097.4
52.5°	7461.9	7487.7	7091.1	4938.2	5541.3	7717.6	8854.5	7982.8	5317.2	5090.7	7560.4
55°	8544.8	8692.6	8588.2	5753.6	6436.4	9458.7	10938.2	9867.0	6341.4	6154.9	9200.6
57.5°	9391.9	9808.4	10540.5	6938.6	7488.8	11495.5	13264.7	11909.6	7536.9	7883.1	11433.3
60°	9438.8	9990.2	11690.2	9417.7	8842.8	13242.5	15587.8	13905.3	9416.5	10817.4	13182.6
62.5°	8731.3	9322.6	10941.7	10544.0	10317.5	14729.0	16779.8	15360.2	11265.5	12536.2	12664.0
65°	7921.8	8519.0	10106.4	9266.3	10146.3	14665.6	16477.1	15394.2	11433.3	11367.6	11736.0
67.5°	6698.1	7234.2	8671.5	8202.2	9352.0	13958.1	15078.6	14423.9	10533.4	10632.0	10796.2
70°	4888.9	5405.2	6739.1	6762.6	8167.0	12682.8	12956.2	12865.8	9700.4	9804.8	9335.5
72.5°	3531.5	3966.8	5117.7	5545.9	6519.7	10635.5	10446.6	10795.1	8323.0	8732.5	7498.2
75°	2538.9	2865.1	3754.4	4824.4	5168.2	7898.3	7478.3	8360.6	6678.1	7519.3	5637.5
77.5°	1030.1	1145.1	1477.1	3249.9	3396.6	5313.6	4578.0	6072.7	4761.0	4940.5	2732.5
80°	42.2	46.9	61.0	1677.7	2328.9	2989.4	2449.7	3246.4	3144.3	1989.8	645.3
82.5°	4.7	4.7	10.6	483.4	1019.6	1649.6	1154.5	1870.2	1592.1	843.6	293.3
85°	1.2	1.2	2.3	55.1	239.3	264.0	156.0	573.7	740.3	344.9	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	10.6	11.7	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°	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0
2.5°	531.5	525.6	518.6	511.5	508.0	498.6	495.1	492.8	490.4	491.6	491.6
5°	513.9	501.0	485.7	470.5	462.3	452.9	448.2	445.8	447.0	451.7	451.7
7.5°	511.5	486.9	454.0	434.1	424.7	417.7	413.0	410.6	411.8	417.7	420.0
10°	550.3	506.8	448.2	414.2	403.6	396.6	391.9	388.3	386.0	390.7	391.9
12.5°	633.6	573.7	476.3	411.8	393.0	383.7	380.1	373.1	369.6	371.9	373.1
15°	806.0	702.8	532.7	421.2	383.7	373.1	367.2	361.4	355.5	354.3	355.5
17.5°	1031.3	883.5	618.3	443.5	376.6	363.7	355.5	347.3	339.1	337.9	336.7
20°	1310.5	1105.2	738.0	478.7	370.7	355.5	343.8	332.0	321.5	318.0	318.0
22.5°	1565.1	1372.7	891.7	522.1	362.5	343.8	329.7	315.6	303.9	298.0	296.8
25°	1876.0	1656.6	1075.9	572.5	350.8	328.5	313.3	299.2	287.4	280.4	278.1
27.5°	2189.3	1955.8	1284.7	638.2	336.7	313.3	299.2	286.3	273.4	265.2	262.8
30°	2493.2	2278.4	1519.4	720.4	326.2	298.0	286.3	273.4	261.6	248.7	245.2
32.5°	2819.3	2608.1	1782.2	811.9	318.0	287.4	274.5	262.8	247.6	235.8	230.0
35°	3133.7	2948.4	2072.0	901.1	309.7	278.1	264.0	252.2	235.8	222.9	214.7
37.5°	3450.5	3294.5	2374.7	955.0	298.0	265.2	252.2	242.9	224.1	208.8	199.5
40°	3786.1	3652.3	2702.0	932.7	287.4	251.1	244.0	233.5	212.4	194.8	183.0
42.5°	4154.5	3993.7	3035.2	847.1	278.1	239.3	232.3	221.7	201.8	180.7	165.4
45°	4617.9	4368.0	3308.6	718.0	282.8	227.6	213.5	211.2	192.4	165.4	146.7
47.5°	5414.5	4942.9	3520.9	634.7	314.4	214.7	198.3	204.1	184.2	150.2	129.1
50°	6633.5	5895.6	3719.2	628.9	362.5	208.8	184.2	199.5	176.0	134.9	113.8
52.5°	7795.1	6863.5	3845.9	680.5	404.8	224.1	170.1	193.6	170.1	124.4	103.2
55°	8906.1	7422.0	3619.5	718.0	444.7	269.8	159.6	184.2	163.1	118.5	99.7
57.5°	10104.0	7670.7	2849.8	794.3	472.8	308.6	161.9	170.1	153.7	115.0	98.6
60°	10461.9	7352.7	1720.0	894.0	457.6	320.3	179.5	151.3	140.8	107.9	95.0
62.5°	9905.7	6598.3	1014.9	814.2	444.7	302.7	205.3	139.6	127.9	98.6	88.0
65°	9073.9	5574.1	661.7	687.5	471.6	269.8	218.2	133.8	116.2	89.2	77.4
67.5°	8123.6	4490.0	463.4	405.9	435.3	242.9	184.2	132.6	104.4	75.1	63.4
70°	6842.4	3362.5	326.2	268.7	362.5	215.9	143.1	129.1	91.5	61.0	49.3
72.5°	5286.7	2104.8	242.9	173.6	258.1	176.0	113.8	109.1	73.9	50.4	37.5
75°	3898.7	1200.2	171.3	125.5	170.1	133.8	84.5	77.4	63.4	48.1	34.0
77.5°	2035.6	600.7	106.8	96.2	97.4	83.3	61.0	56.3	58.7	48.1	31.7
80°	390.7	119.7	64.5	70.4	52.8	52.8	44.6	46.9	51.6	38.7	27.0
82.5°	163.1	25.8	35.2	39.9	32.9	36.4	36.4	37.5	36.4	28.2	19.9
85°	0.0	0.0	15.3	16.4	22.3	22.3	18.8	18.8	18.8	16.4	11.7
87.5°	0.0	0.0	0.0	0.0	1.2	3.5	7.0	8.2	9.4	7.0	4.7
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°	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0
2.5°	490.4	488.1	491.6	493.9	496.3	496.3	493.9	491.6	488.1	491.6	488.1
5°	452.9	456.4	462.3	464.6	467.0	462.3	459.9	452.9	447.0	448.2	445.8
7.5°	423.5	427.1	434.1	438.8	438.8	436.4	429.4	422.4	413.0	413.0	411.8
10°	396.6	401.3	409.5	415.3	417.7	415.3	408.3	398.9	390.7	390.7	387.2
12.5°	374.3	380.1	389.5	397.7	400.1	397.7	390.7	381.3	371.9	371.9	369.6
15°	355.5	362.5	373.1	382.5	386.0	382.5	374.3	362.5	353.1	354.3	350.8
17.5°	337.9	343.8	357.8	368.4	371.9	368.4	357.8	342.6	333.2	335.5	333.2
20°	318.0	325.0	339.1	350.8	354.3	350.8	339.1	322.6	313.3	313.3	314.4
22.5°	296.8	303.9	318.0	326.2	330.9	327.3	315.6	300.4	291.0	291.0	292.1
25°	278.1	281.6	292.1	300.4	301.5	298.0	288.6	276.9	269.8	273.4	274.5
27.5°	260.5	260.5	265.2	269.8	268.7	265.2	261.6	252.2	251.1	254.6	258.1
30°	241.7	235.8	233.5	230.0	228.8	227.6	231.1	231.1	233.5	238.2	241.7
32.5°	225.3	213.5	203.0	192.4	186.5	191.2	200.6	208.8	217.1	224.1	227.6
35°	206.5	187.7	170.1	156.0	146.7	153.7	168.9	184.2	198.3	207.7	213.5
37.5°	187.7	160.7	139.6	122.0	115.0	120.8	137.3	158.4	179.5	191.2	199.5
40°	167.8	133.8	109.1	95.0	88.0	93.9	110.3	131.4	159.6	174.8	185.4
42.5°	147.8	110.3	88.0	73.9	70.4	73.9	86.8	107.9	138.4	157.2	171.3
45°	127.9	91.5	70.4	59.8	56.3	59.8	70.4	88.0	118.5	139.6	156.0
47.5°	110.3	77.4	58.7	49.3	46.9	50.4	58.7	73.9	99.7	120.8	139.6
50°	96.2	68.0	50.4	42.2	39.9	43.4	50.4	62.2	84.5	103.2	123.2
52.5°	86.8	63.4	44.6	36.4	35.2	37.5	43.4	52.8	71.6	88.0	106.8
55°	84.5	63.4	41.1	32.9	31.7	34.0	38.7	45.8	62.2	76.3	92.7
57.5°	86.8	68.0	38.7	28.2	27.0	29.3	34.0	39.9	54.0	65.7	81.0
60°	86.8	69.2	34.0	22.3	21.1	23.5	28.2	35.2	48.1	57.5	70.4
62.5°	78.6	63.4	28.2	17.6	15.3	17.6	23.5	29.3	42.2	51.6	62.2
65°	68.0	54.0	23.5	12.9	10.6	12.9	18.8	24.6	36.4	44.6	56.3
67.5°	55.1	41.1	17.6	9.4	7.0	9.4	14.1	19.9	30.5	38.7	50.4
70°	41.1	29.3	14.1	8.2	7.0	8.2	12.9	18.8	27.0	35.2	46.9
72.5°	30.5	19.9	11.7	8.2	5.9	8.2	11.7	17.6	25.8	34.0	44.6
75°	25.8	16.4	10.6	7.0	5.9	7.0	10.6	16.4	23.5	31.7	42.2
77.5°	24.6	15.3	9.4	5.9	4.7	5.9	9.4	14.1	21.1	29.3	41.1
80°	21.1	12.9	8.2	4.7	3.5	4.7	8.2	11.7	16.4	22.3	31.7
82.5°	16.4	10.6	5.9	2.3	1.2	2.3	5.9	7.0	10.6	12.9	18.8
85°	10.6	5.9	2.3	0.0	0.0	0.0	2.3	4.7	4.7	5.9	9.4
87.5°	4.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.3	3.5
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°	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0	528.0
2.5°	495.1	496.3	498.6	502.2	510.4	517.4	524.4	533.8	538.5	538.5
5°	448.2	449.4	450.5	455.2	467.0	476.3	491.6	510.4	519.7	522.1
7.5°	411.8	414.2	416.5	420.0	431.8	444.7	464.6	499.8	517.4	520.9
10°	390.7	394.2	398.9	405.9	416.5	430.6	464.6	528.0	557.3	563.2
12.5°	374.3	380.1	384.8	393.0	405.9	428.2	496.3	607.7	659.4	673.4
15°	357.8	364.9	371.9	380.1	394.2	436.4	557.3	750.9	836.5	847.1
17.5°	341.4	349.6	359.0	368.4	386.0	456.4	653.5	949.2	1068.8	1092.3
20°	322.6	333.2	346.1	357.8	377.8	488.1	787.2	1185.0	1335.2	1385.6
22.5°	302.7	315.6	330.9	346.1	368.4	526.8	949.2	1438.4	1648.4	1681.3
25°	286.3	299.2	313.3	328.5	353.1	573.7	1145.1	1752.8	1944.1	1975.8
27.5°	271.0	283.9	296.8	310.9	337.9	634.7	1380.9	2087.2	2286.7	2319.5
30°	254.6	269.8	282.8	296.8	323.8	709.8	1653.1	2458.0	2646.8	2677.4
32.5°	240.5	255.8	268.7	282.8	313.3	791.9	1939.4	2786.5	2940.2	2940.2
35°	228.8	245.2	254.6	273.4	305.0	844.7	2210.4	3099.7	3215.9	3211.2
37.5°	215.9	235.8	242.9	255.8	294.5	850.6	2465.0	3430.6	3516.2	3485.7
40°	203.0	224.1	234.6	241.7	282.8	802.5	2744.2	3734.4	3807.2	3767.3
42.5°	191.2	207.7	222.9	231.1	275.7	718.0	2968.3	4059.4	4146.3	4111.1
45°	179.5	193.6	203.0	218.2	280.4	659.4	3160.7	4438.4	4590.9	4565.1
47.5°	167.8	179.5	185.4	208.8	312.1	632.4	3278.1	5025.0	5312.5	5291.4
50°	154.9	168.9	168.9	206.5	359.0	641.8	3380.1	5874.5	6319.1	6312.1
52.5°	142.0	157.2	154.9	224.1	395.4	685.2	3496.3	6624.2	7397.3	7461.9
55°	129.1	143.1	145.5	259.3	416.5	722.7	3046.9	6939.8	8318.3	8544.8
57.5°	115.0	123.2	151.3	286.3	409.5	831.8	2087.2	6997.3	8906.1	9391.9
60°	99.7	106.8	171.3	280.4	387.2	768.5	1314.0	6481.0	8822.8	9438.8
62.5°	86.8	98.6	180.7	247.6	394.2	666.4	837.7	5523.7	8028.5	8731.3
65°	76.3	95.0	164.3	224.1	398.9	451.7	565.5	4493.5	7253.0	7921.8
67.5°	68.0	105.6	134.9	199.5	342.6	318.0	388.3	3491.6	6098.5	6698.1
70°	62.2	107.9	110.3	171.3	265.2	204.1	255.8	2350.0	4203.7	4888.9
72.5°	56.3	79.8	83.3	137.3	171.3	124.4	165.4	1344.5	3064.5	3531.5
75°	54.0	54.0	57.5	89.2	95.0	90.3	106.8	802.5	2197.5	2538.9
77.5°	50.4	41.1	36.4	57.5	51.6	64.5	63.4	356.7	952.7	1030.1
80°	39.9	29.3	24.6	36.4	35.2	43.4	37.5	29.3	43.4	42.2
82.5°	24.6	18.8	17.6	22.3	19.9	22.3	17.6	4.7	4.7	4.7
85°	11.7	10.6	9.4	9.4	10.6	9.4	7.0	2.3	1.2	1.2
87.5°	5.9	5.9	4.7	3.5	4.7	4.7	3.5	1.2	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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