

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: P628862

Luminaire Tested: GWS-SA1A-740-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628862
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-SA1A-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1764.8 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

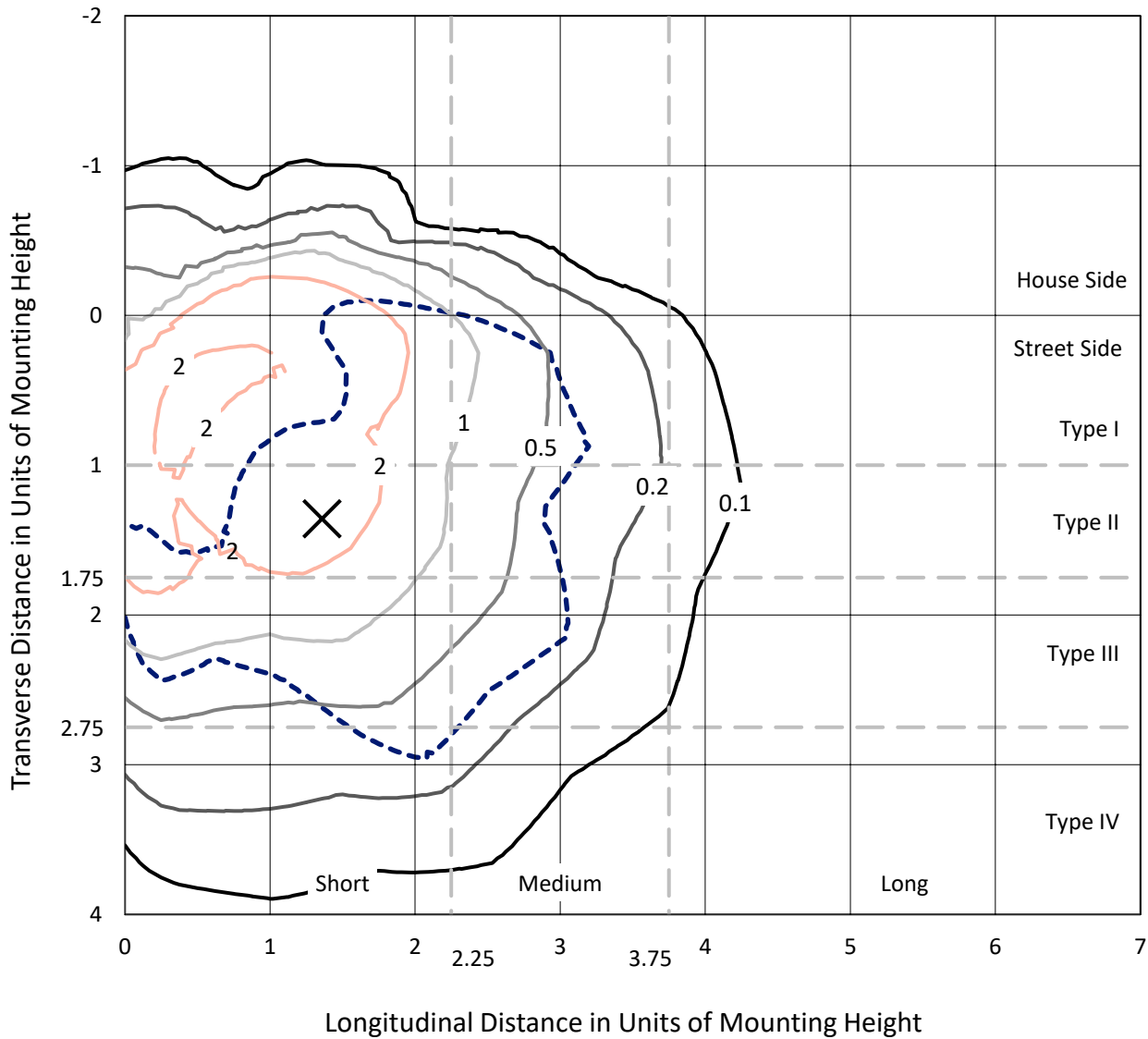
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

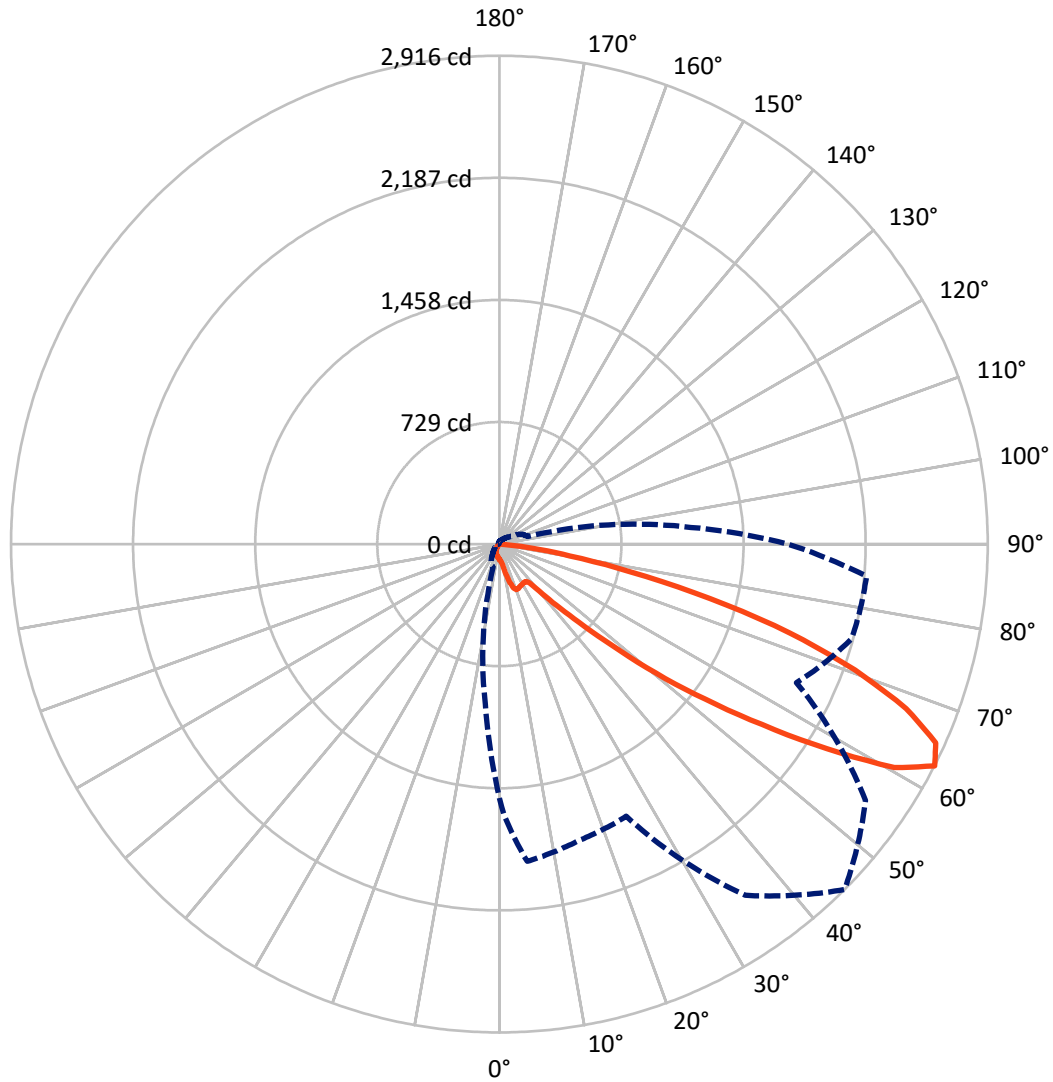
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.6 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	217.8	0.0	217.8
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	1547.0	0.0	1547.0
	% Fixture	87.7	0.0	87.7
Total	Lumens	1764.8	0.0	1764.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.1	0.5
10°-20°	30.8	1.7
20°-30°	66.9	3.8
30°-40°	109.8	6.2
40°-50°	201.8	11.4
50°-60°	433.4	24.6
60°-70°	582.1	33.0
70°-80°	303.1	17.2
80°-90°	28.7	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°	1764.8	100.0
0°-180°	1764.8	100.0

Coefficient of Utilization



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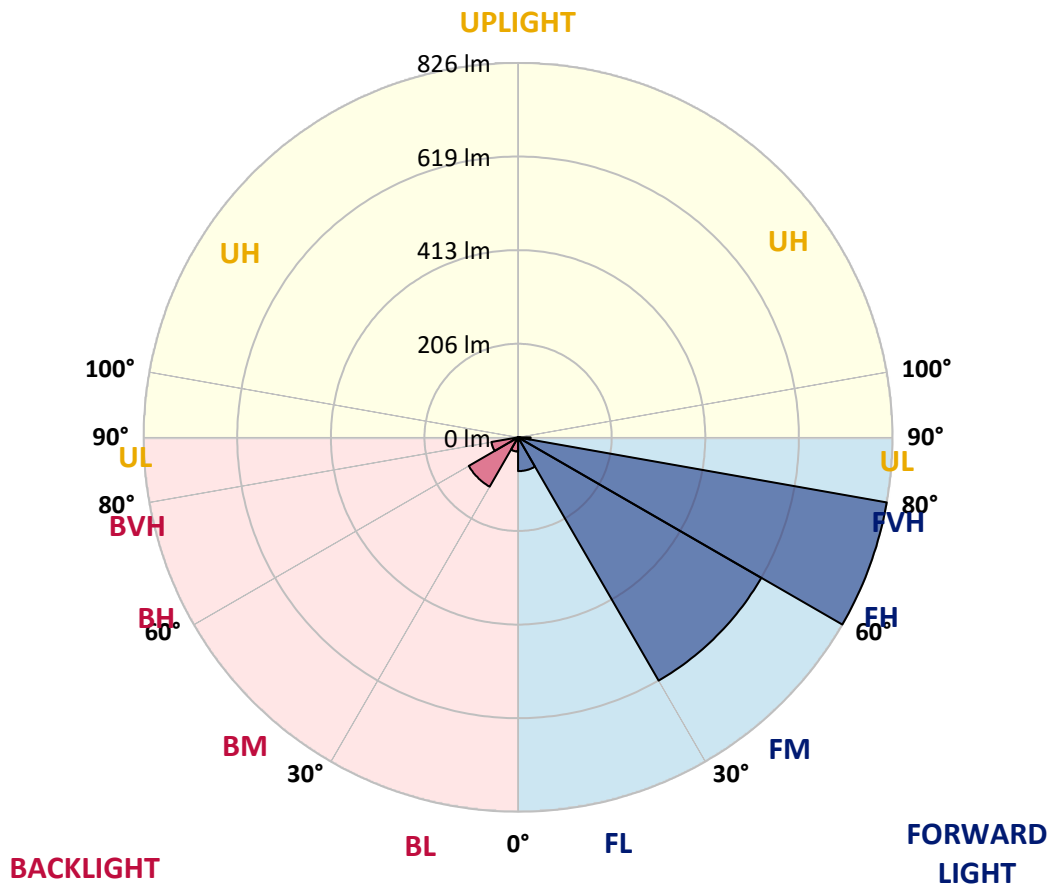
CATALOG NUMBER: GWS-SA1A-740-U-SLR-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	74.6	4.2			
FM (30°-60°)	619.4	35.1			
FH (60°-80°)	825.6	46.8			G1/1800
FVH (80°-90°)	27.5	1.6			G1/100
BL (0°-30°)	31.2	1.8	B0/110		
BM (30°-60°)	125.6	7.1	B0/220		
BH (60°-80°)	59.7	3.4	B0/110		G0/110
BVH (80°-90°)	1.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
2.5°	93.6	94.0	94.4	95.8	96.8	97.6	97.8	97.2	95.8	94.4	92.3
5°	90.7	91.1	92.5	96.4	100.3	103.4	104.4	103.8	100.3	95.8	91.1
7.5°	90.5	91.3	94.8	102.9	111.3	117.6	119.3	117.8	111.3	102.3	92.8
10°	97.8	99.3	104.4	119.0	134.3	145.5	150.0	143.9	133.5	117.2	101.5
12.5°	117.0	119.5	129.2	150.6	174.3	189.2	195.3	187.7	171.4	147.8	122.9
15°	147.2	150.8	165.5	197.5	225.5	238.7	240.7	236.5	217.5	191.4	158.0
17.5°	189.8	195.1	217.9	250.5	270.7	275.4	274.8	270.3	256.4	238.5	206.9
20°	240.7	247.1	269.5	296.4	298.4	292.9	289.9	287.2	282.5	279.5	254.8
22.5°	292.1	299.9	323.3	330.0	311.7	295.8	288.2	290.3	297.2	312.3	302.3
25°	343.3	350.6	372.6	354.5	317.8	291.3	281.7	286.6	303.1	335.7	348.6
27.5°	403.0	408.5	421.6	371.2	318.8	287.6	278.3	285.8	306.0	350.4	399.3
30°	465.2	468.4	462.1	375.7	315.4	282.1	274.8	285.8	310.9	360.2	437.5
32.5°	510.8	511.5	490.9	376.1	313.5	277.6	271.5	284.6	315.6	368.4	474.4
35°	557.9	554.9	518.4	382.2	318.4	279.3	274.0	288.0	322.9	377.9	506.8
37.5°	605.6	600.1	549.2	392.2	331.1	297.0	293.7	305.8	334.7	391.2	542.4
40°	654.6	647.0	581.2	407.3	359.2	357.3	368.6	367.1	367.1	408.1	579.1
42.5°	714.3	705.5	628.5	449.9	424.8	465.8	496.4	477.4	442.4	447.0	626.8
45°	793.2	785.6	710.4	531.4	527.8	621.9	663.1	625.6	538.4	536.9	706.5
47.5°	919.4	917.9	841.1	626.0	653.7	820.7	900.2	828.0	647.8	632.1	857.4
50°	1096.7	1092.4	1004.0	736.9	803.6	1067.0	1208.8	1088.6	780.1	743.2	1059.4
52.5°	1296.5	1301.0	1232.1	858.0	962.8	1340.9	1538.5	1387.0	923.8	884.5	1313.6
55°	1484.6	1510.3	1492.2	999.7	1118.3	1643.4	1900.5	1714.4	1101.8	1069.4	1598.6
57.5°	1631.8	1704.2	1831.4	1205.6	1301.2	1997.3	2304.7	2069.3	1309.5	1369.7	1986.5
60°	1640.0	1735.8	2031.2	1636.3	1536.4	2300.9	2708.4	2416.0	1636.1	1879.5	2290.5
62.5°	1517.1	1619.8	1901.1	1832.0	1792.7	2559.1	2915.5	2668.8	1957.4	2178.1	2200.4
65°	1376.4	1480.2	1756.0	1610.0	1762.9	2548.1	2862.9	2674.7	1986.5	1975.1	2039.1
67.5°	1163.8	1256.9	1506.7	1425.1	1624.9	2425.2	2619.9	2506.1	1830.2	1847.3	1875.8
70°	849.4	939.1	1170.9	1175.0	1419.0	2203.6	2251.1	2235.4	1685.4	1703.6	1622.0
72.5°	613.6	689.2	889.2	963.6	1132.8	1847.9	1815.1	1875.6	1446.1	1517.3	1302.8
75°	441.1	497.8	652.3	838.2	898.0	1372.3	1299.3	1452.6	1160.3	1306.5	979.5
77.5°	179.0	199.0	256.6	564.7	590.1	923.2	795.4	1055.1	827.2	858.4	474.8
80°	7.3	8.2	10.6	291.5	404.6	519.4	425.6	564.1	546.3	345.7	112.1
82.5°	0.8	0.8	1.8	84.0	177.1	286.6	200.6	324.9	276.6	146.6	51.0
85°	0.2	0.2	0.4	9.6	41.6	45.9	27.1	99.7	128.6	59.9	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.8	2.0	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°	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
2.5°	92.3	91.3	90.1	88.9	88.3	86.6	86.0	85.6	85.2	85.4	85.4
5°	89.3	87.0	84.4	81.7	80.3	78.7	77.9	77.5	77.7	78.5	78.5
7.5°	88.9	84.6	78.9	75.4	73.8	72.6	71.8	71.3	71.6	72.6	73.0
10°	95.6	88.1	77.9	72.0	70.1	68.9	68.1	67.5	67.1	67.9	68.1
12.5°	110.1	99.7	82.8	71.6	68.3	66.7	66.0	64.8	64.2	64.6	64.8
15°	140.0	122.1	92.5	73.2	66.7	64.8	63.8	62.8	61.8	61.6	61.8
17.5°	179.2	153.5	107.4	77.1	65.4	63.2	61.8	60.3	58.9	58.7	58.5
20°	227.7	192.0	128.2	83.2	64.4	61.8	59.7	57.7	55.9	55.2	55.2
22.5°	271.9	238.5	154.9	90.7	63.0	59.7	57.3	54.8	52.8	51.8	51.6
25°	326.0	287.8	186.9	99.5	61.0	57.1	54.4	52.0	49.9	48.7	48.3
27.5°	380.4	339.8	223.2	110.9	58.5	54.4	52.0	49.7	47.5	46.1	45.7
30°	433.2	395.9	264.0	125.2	56.7	51.8	49.7	47.5	45.5	43.2	42.6
32.5°	489.9	453.2	309.6	141.1	55.2	49.9	47.7	45.7	43.0	41.0	40.0
35°	544.5	512.3	360.0	156.6	53.8	48.3	45.9	43.8	41.0	38.7	37.3
37.5°	599.5	572.4	412.6	165.9	51.8	46.1	43.8	42.2	38.9	36.3	34.7
40°	657.8	634.6	469.5	162.1	49.9	43.6	42.4	40.6	36.9	33.8	31.8
42.5°	721.8	693.9	527.4	147.2	48.3	41.6	40.4	38.5	35.1	31.4	28.7
45°	802.4	758.9	574.9	124.8	49.1	39.5	37.1	36.7	33.4	28.7	25.5
47.5°	940.8	858.8	611.8	110.3	54.6	37.3	34.5	35.5	32.0	26.1	22.4
50°	1152.6	1024.3	646.2	109.3	63.0	36.3	32.0	34.7	30.6	23.4	19.8
52.5°	1354.4	1192.5	668.2	118.2	70.3	38.9	29.6	33.6	29.6	21.6	17.9
55°	1547.4	1289.6	628.9	124.8	77.3	46.9	27.7	32.0	28.3	20.6	17.3
57.5°	1755.6	1332.8	495.2	138.0	82.2	53.6	28.1	29.6	26.7	20.0	17.1
60°	1817.7	1277.5	298.8	155.3	79.5	55.7	31.2	26.3	24.5	18.8	16.5
62.5°	1721.1	1146.5	176.3	141.5	77.3	52.6	35.7	24.3	22.2	17.1	15.3
65°	1576.6	968.5	115.0	119.5	81.9	46.9	37.9	23.2	20.2	15.5	13.5
67.5°	1411.5	780.1	80.5	70.5	75.6	42.2	32.0	23.0	18.1	13.0	11.0
70°	1188.9	584.2	56.7	46.7	63.0	37.5	24.9	22.4	15.9	10.6	8.6
72.5°	918.5	365.7	42.2	30.2	44.8	30.6	19.8	19.0	12.8	8.8	6.5
75°	677.4	208.5	29.8	21.8	29.6	23.2	14.7	13.5	11.0	8.4	5.9
77.5°	353.7	104.4	18.6	16.7	16.9	14.5	10.6	9.8	10.2	8.4	5.5
80°	67.9	20.8	11.2	12.2	9.2	9.2	7.7	8.2	9.0	6.7	4.7
82.5°	28.3	4.5	6.1	6.9	5.7	6.3	6.3	6.5	6.3	4.9	3.5
85°	0.0	0.0	2.7	2.9	3.9	3.9	3.3	3.3	3.3	2.9	2.0
87.5°	0.0	0.0	0.0	0.0	0.2	0.6	1.2	1.4	1.6	1.2	0.8
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
2.5°	85.2	84.8	85.4	85.8	86.2	86.2	85.8	85.4	84.8	85.4	84.8
5°	78.7	79.3	80.3	80.7	81.1	80.3	79.9	78.7	77.7	77.9	77.5
7.5°	73.6	74.2	75.4	76.2	76.2	75.8	74.6	73.4	71.8	71.8	71.6
10°	68.9	69.7	71.1	72.2	72.6	72.2	70.9	69.3	67.9	67.9	67.3
12.5°	65.0	66.0	67.7	69.1	69.5	69.1	67.9	66.3	64.6	64.6	64.2
15°	61.8	63.0	64.8	66.5	67.1	66.5	65.0	63.0	61.4	61.6	61.0
17.5°	58.7	59.7	62.2	64.0	64.6	64.0	62.2	59.5	57.9	58.3	57.9
20°	55.2	56.5	58.9	61.0	61.6	61.0	58.9	56.1	54.4	54.4	54.6
22.5°	51.6	52.8	55.2	56.7	57.5	56.9	54.8	52.2	50.6	50.6	50.8
25°	48.3	48.9	50.8	52.2	52.4	51.8	50.1	48.1	46.9	47.5	47.7
27.5°	45.3	45.3	46.1	46.9	46.7	46.1	45.5	43.8	43.6	44.2	44.8
30°	42.0	41.0	40.6	40.0	39.8	39.5	40.2	40.2	40.6	41.4	42.0
32.5°	39.1	37.1	35.3	33.4	32.4	33.2	34.9	36.3	37.7	38.9	39.5
35°	35.9	32.6	29.6	27.1	25.5	26.7	29.4	32.0	34.5	36.1	37.1
37.5°	32.6	27.9	24.3	21.2	20.0	21.0	23.9	27.5	31.2	33.2	34.7
40°	29.2	23.2	19.0	16.5	15.3	16.3	19.2	22.8	27.7	30.4	32.2
42.5°	25.7	19.2	15.3	12.8	12.2	12.8	15.1	18.8	24.1	27.3	29.8
45°	22.2	15.9	12.2	10.4	9.8	10.4	12.2	15.3	20.6	24.3	27.1
47.5°	19.2	13.5	10.2	8.6	8.2	8.8	10.2	12.8	17.3	21.0	24.3
50°	16.7	11.8	8.8	7.3	6.9	7.5	8.8	10.8	14.7	17.9	21.4
52.5°	15.1	11.0	7.7	6.3	6.1	6.5	7.5	9.2	12.4	15.3	18.6
55°	14.7	11.0	7.1	5.7	5.5	5.9	6.7	8.0	10.8	13.3	16.1
57.5°	15.1	11.8	6.7	4.9	4.7	5.1	5.9	6.9	9.4	11.4	14.1
60°	15.1	12.0	5.9	3.9	3.7	4.1	4.9	6.1	8.4	10.0	12.2
62.5°	13.7	11.0	4.9	3.1	2.7	3.1	4.1	5.1	7.3	9.0	10.8
65°	11.8	9.4	4.1	2.2	1.8	2.2	3.3	4.3	6.3	7.7	9.8
67.5°	9.6	7.1	3.1	1.6	1.2	1.6	2.4	3.5	5.3	6.7	8.8
70°	7.1	5.1	2.4	1.4	1.2	1.4	2.2	3.3	4.7	6.1	8.2
72.5°	5.3	3.5	2.0	1.4	1.0	1.4	2.0	3.1	4.5	5.9	7.7
75°	4.5	2.9	1.8	1.2	1.0	1.2	1.8	2.9	4.1	5.5	7.3
77.5°	4.3	2.7	1.6	1.0	0.8	1.0	1.6	2.4	3.7	5.1	7.1
80°	3.7	2.2	1.4	0.8	0.6	0.8	1.4	2.0	2.9	3.9	5.5
82.5°	2.9	1.8	1.0	0.4	0.2	0.4	1.0	1.2	1.8	2.2	3.3
85°	1.8	1.0	0.4	0.0	0.0	0.0	0.4	0.8	0.8	1.0	1.6
87.5°	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.6
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
2.5°	86.0	86.2	86.6	87.2	88.7	89.9	91.1	92.8	93.6	93.6
5°	77.9	78.1	78.3	79.1	81.1	82.8	85.4	88.7	90.3	90.7
7.5°	71.6	72.0	72.4	73.0	75.0	77.3	80.7	86.8	89.9	90.5
10°	67.9	68.5	69.3	70.5	72.4	74.8	80.7	91.7	96.8	97.8
12.5°	65.0	66.0	66.9	68.3	70.5	74.4	86.2	105.6	114.6	117.0
15°	62.2	63.4	64.6	66.0	68.5	75.8	96.8	130.5	145.3	147.2
17.5°	59.3	60.7	62.4	64.0	67.1	79.3	113.5	164.9	185.7	189.8
20°	56.1	57.9	60.1	62.2	65.6	84.8	136.8	205.9	232.0	240.7
22.5°	52.6	54.8	57.5	60.1	64.0	91.5	164.9	249.9	286.4	292.1
25°	49.7	52.0	54.4	57.1	61.4	99.7	199.0	304.6	337.8	343.3
27.5°	47.1	49.3	51.6	54.0	58.7	110.3	239.9	362.6	397.3	403.0
30°	44.2	46.9	49.1	51.6	56.3	123.3	287.2	427.1	459.9	465.2
32.5°	41.8	44.4	46.7	49.1	54.4	137.6	337.0	484.1	510.8	510.8
35°	39.8	42.6	44.2	47.5	53.0	146.8	384.1	538.6	558.8	557.9
37.5°	37.5	41.0	42.2	44.4	51.2	147.8	428.3	596.1	610.9	605.6
40°	35.3	38.9	40.8	42.0	49.1	139.4	476.8	648.9	661.5	654.6
42.5°	33.2	36.1	38.7	40.2	47.9	124.8	515.7	705.3	720.4	714.3
45°	31.2	33.6	35.3	37.9	48.7	114.6	549.2	771.2	797.7	793.2
47.5°	29.2	31.2	32.2	36.3	54.2	109.9	569.6	873.1	923.0	919.4
50°	26.9	29.4	29.4	35.9	62.4	111.5	587.3	1020.7	1097.9	1096.7
52.5°	24.7	27.3	26.9	38.9	68.7	119.0	607.5	1150.9	1285.3	1296.5
55°	22.4	24.9	25.3	45.1	72.4	125.6	529.4	1205.8	1445.3	1484.6
57.5°	20.0	21.4	26.3	49.7	71.1	144.5	362.6	1215.8	1547.4	1631.8
60°	17.3	18.6	29.8	48.7	67.3	133.5	228.3	1126.1	1533.0	1640.0
62.5°	15.1	17.1	31.4	43.0	68.5	115.8	145.5	959.7	1394.9	1517.1
65°	13.3	16.5	28.5	38.9	69.3	78.5	98.3	780.7	1260.2	1376.4
67.5°	11.8	18.3	23.4	34.7	59.5	55.2	67.5	606.7	1059.6	1163.8
70°	10.8	18.8	19.2	29.8	46.1	35.5	44.4	408.3	730.4	849.4
72.5°	9.8	13.9	14.5	23.9	29.8	21.6	28.7	233.6	532.5	613.6
75°	9.4	9.4	10.0	15.5	16.5	15.7	18.6	139.4	381.8	441.1
77.5°	8.8	7.1	6.3	10.0	9.0	11.2	11.0	62.0	165.5	179.0
80°	6.9	5.1	4.3	6.3	6.1	7.5	6.5	5.1	7.5	7.3
82.5°	4.3	3.3	3.1	3.9	3.5	3.9	3.1	0.8	0.8	0.8
85°	2.0	1.8	1.6	1.6	1.8	1.6	1.2	0.4	0.2	0.2
87.5°	1.0	1.0	0.8	0.6	0.8	0.8	0.6	0.2	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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