

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: P635236

Luminaire Tested: GWS-SA3D-735-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635236
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-SA3D-735-U-SLL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10509.1 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

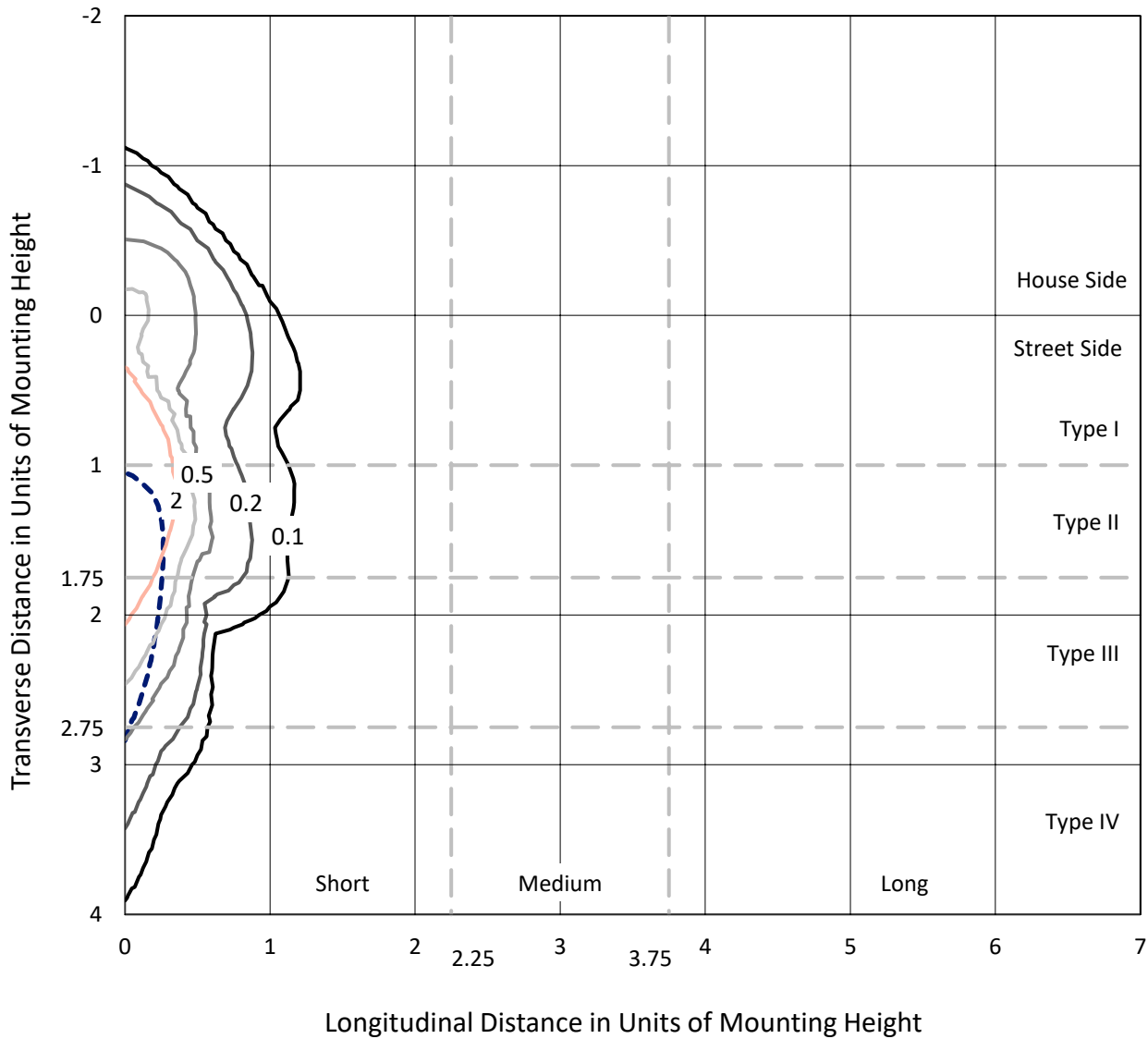
Input Watts (W): 120.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

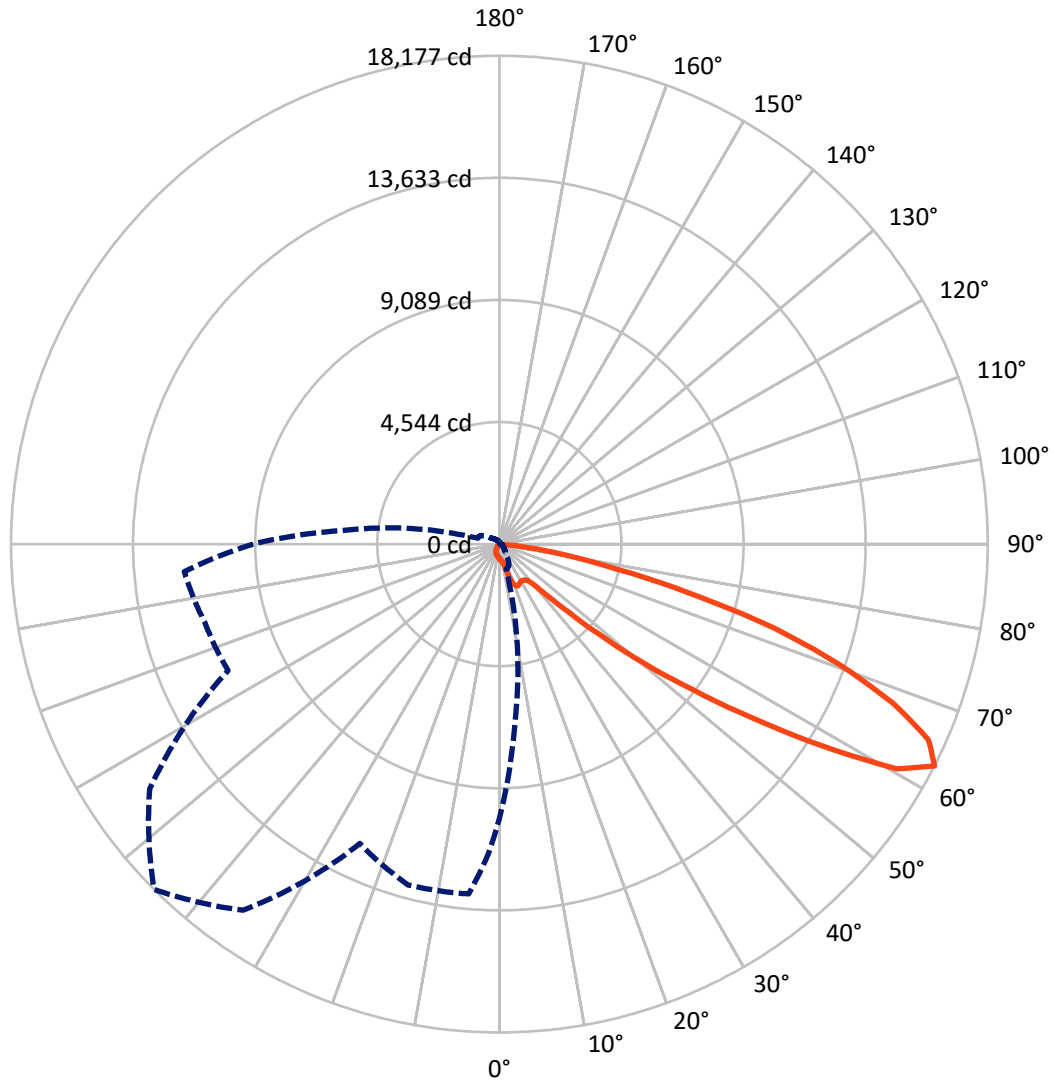
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.7 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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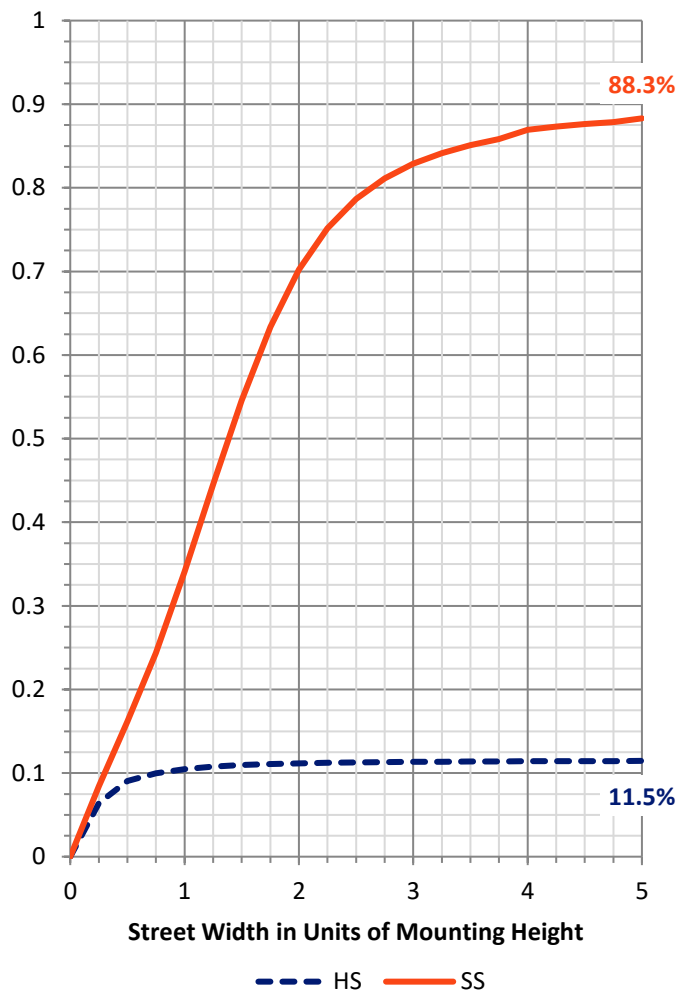
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1221.0	0.0	1221.0
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	9288.1	0.0	9288.1
	% Fixture	88.4	0.0	88.4
Total	Lumens	10509.1	0.0	10509.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.1	0.4
10°-20°	161.3	1.5
20°-30°	364.4	3.5
30°-40°	627.8	6.0
40°-50°	1184.3	11.3
50°-60°	2644.2	25.2
60°-70°	3536.5	33.7
70°-80°	1773.5	16.9
80°-90°	170.0	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°	10509.1	100.0
0°-180°	10509.1	100.0

Coefficient of Utilization



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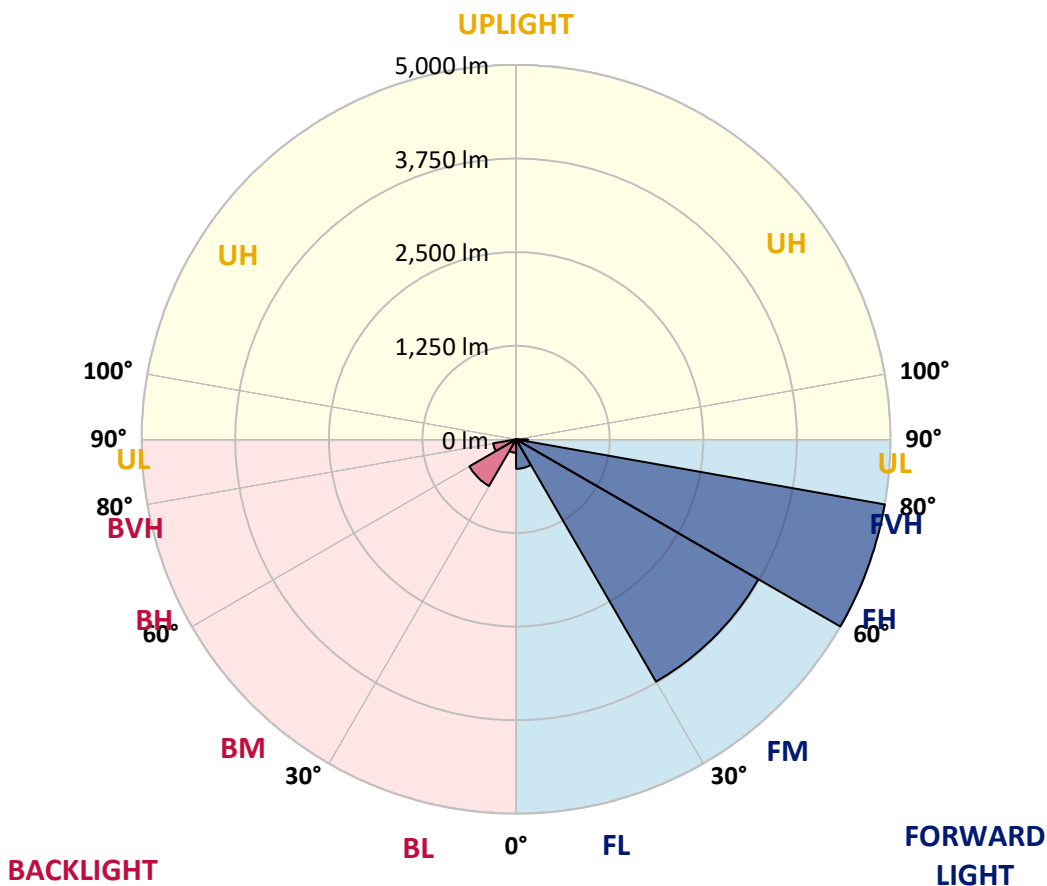
CATALOG NUMBER: GWS-SA3D-735-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	393.6	3.7			
FM (30°-60°)	3736.3	35.6			
FH (60°-80°)	4999.5	47.6			G2/5000
FVH (80°-90°)	158.7	1.5			G2/225
BL (0°-30°)	179.2	1.7	B1/500		
BM (30°-60°)	720.0	6.9	B1/1000		
BH (60°-80°)	310.5	3.0	B1/500		G1/500
BVH (80°-90°)	11.3	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0
2.5°	538.8	537.6	535.1	527.6	521.4	517.6	510.2	510.2	508.9	506.4	501.5
5°	521.4	516.4	511.4	497.7	482.8	474.1	464.1	462.9	462.9	460.4	459.2
7.5°	494.0	489.0	482.8	460.4	446.7	438.0	429.3	428.0	424.3	424.3	424.3
10°	479.1	471.6	461.6	436.8	423.1	415.6	409.4	405.7	403.2	399.4	398.2
12.5°	511.4	497.7	476.6	431.8	413.1	403.2	395.7	393.2	385.7	380.8	377.0
15°	612.2	578.6	536.3	443.0	409.4	394.5	384.5	379.5	373.3	364.6	358.4
17.5°	777.7	729.2	658.3	479.1	405.7	387.0	374.5	365.8	357.1	347.2	339.7
20°	1006.7	934.5	849.9	545.0	405.7	378.3	363.3	352.1	339.7	328.5	319.8
22.5°	1297.8	1225.7	1081.3	657.0	410.6	367.1	349.7	334.7	319.8	309.8	299.9
25°	1623.9	1521.8	1387.4	792.6	424.3	352.1	333.5	318.5	304.9	292.4	281.2
27.5°	1987.2	1876.5	1697.3	985.5	454.2	337.2	316.1	302.4	289.9	277.5	262.6
30°	2321.9	2256.0	2073.1	1217.0	502.7	327.3	302.4	289.9	277.5	261.3	247.6
32.5°	2723.8	2606.9	2456.3	1480.8	567.4	317.3	291.2	273.8	263.8	248.9	233.9
35°	3128.2	3028.7	2830.9	1805.5	639.6	307.3	277.5	261.3	252.6	235.2	219.0
37.5°	3545.1	3522.7	3327.3	2165.1	710.5	296.2	261.3	251.4	242.6	222.7	204.1
40°	3955.7	3914.7	3734.2	2575.8	754.1	283.7	247.6	241.4	231.4	209.0	187.9
42.5°	4348.9	4317.8	4142.4	2969.0	747.8	272.5	233.9	226.5	219.0	196.6	170.5
45°	4831.7	4780.7	4559.2	3260.1	684.4	285.0	220.2	207.8	206.6	185.4	153.1
47.5°	5735.1	5567.1	5191.3	3484.1	620.9	317.3	205.3	190.4	199.1	174.2	135.6
50°	7000.6	6802.8	6259.0	3658.3	619.7	359.6	202.8	174.2	192.9	165.5	120.7
52.5°	8272.3	7923.9	7263.2	3751.7	665.7	390.7	225.2	158.0	185.4	156.8	109.5
55°	9490.5	8767.6	7683.7	3443.1	701.8	424.3	266.3	149.3	171.7	146.8	103.3
57.5°	10651.5	9445.7	7866.7	2723.8	822.5	438.0	291.2	153.1	151.8	134.4	98.3
60°	10810.7	9413.4	7497.1	1584.0	907.1	414.4	281.2	170.5	133.1	119.5	89.6
62.5°	10208.5	8787.5	6654.7	988.0	842.4	405.7	250.1	194.1	120.7	105.8	78.4
65°	9293.9	7805.7	5548.5	637.1	638.3	450.4	219.0	190.4	113.2	93.3	67.2
67.5°	7864.2	6532.7	4371.3	426.8	360.9	384.5	191.6	130.7	110.7	79.6	52.3
70°	5740.1	4650.1	2845.8	285.0	215.3	307.3	160.5	93.3	104.5	65.9	37.3
72.5°	4195.9	3124.5	1589.0	186.6	121.9	179.2	118.2	67.2	80.9	48.5	26.1
75°	3020.0	2150.2	907.1	119.5	80.9	98.3	77.1	46.0	52.3	38.6	23.6
77.5°	1453.4	1047.7	411.9	65.9	54.8	49.8	41.1	28.6	32.4	34.8	21.2
80°	54.8	41.1	31.1	32.4	34.8	22.4	18.7	14.9	18.7	23.6	11.2
82.5°	0.0	0.0	0.0	3.7	5.0	6.2	7.5	6.2	7.5	8.7	1.2
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°	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0
2.5°	505.2	502.7	505.2	507.7	510.2	512.7	508.9	511.4	513.9	507.7	510.2
5°	465.4	464.1	471.6	475.3	480.3	482.8	480.3	480.3	479.1	471.6	471.6
7.5°	430.5	431.8	438.0	446.7	452.9	456.7	454.2	452.9	449.2	438.0	438.0
10°	404.4	404.4	414.4	421.8	430.5	434.3	431.8	428.0	424.3	413.1	411.9
12.5°	383.3	383.3	390.7	403.2	413.1	418.1	416.9	411.9	405.7	394.5	393.2
15°	363.3	362.1	373.3	384.5	398.2	404.4	401.9	398.2	387.0	377.0	374.5
17.5°	343.4	342.2	352.1	367.1	382.0	390.7	389.5	380.8	370.8	358.4	355.9
20°	323.5	321.0	333.5	348.4	363.3	372.1	369.6	362.1	349.7	337.2	334.7
22.5°	303.6	302.4	311.1	323.5	337.2	344.7	343.4	337.2	324.8	313.6	313.6
25°	281.2	281.2	287.4	296.2	306.1	309.8	311.1	308.6	301.1	294.9	294.9
27.5°	262.6	258.8	261.3	263.8	268.8	275.0	275.0	277.5	278.7	276.2	277.5
30°	247.6	241.4	237.7	232.7	230.2	232.7	235.2	243.9	252.6	257.6	260.1
32.5°	230.2	222.7	212.8	199.1	190.4	187.9	195.4	211.5	227.7	238.9	245.1
35°	212.8	202.8	184.2	164.3	153.1	149.3	158.0	176.7	200.3	220.2	229.0
37.5°	195.4	181.7	155.5	131.9	119.5	117.0	125.7	145.6	173.0	200.3	211.5
40°	175.5	159.3	128.2	103.3	93.3	90.8	98.3	118.2	146.8	177.9	195.4
42.5°	155.5	135.6	103.3	82.1	72.2	72.2	82.1	97.1	123.2	156.8	177.9
45°	135.6	114.5	84.6	65.9	59.7	61.0	67.2	82.1	103.3	138.1	158.0
47.5°	117.0	98.3	69.7	54.8	49.8	51.0	58.5	70.9	88.3	119.5	140.6
50°	100.8	83.4	61.0	46.0	42.3	44.8	52.3	63.5	78.4	105.8	123.2
52.5°	90.8	74.7	56.0	39.8	37.3	39.8	47.3	57.2	70.9	93.3	110.7
55°	85.9	73.4	56.0	36.1	32.4	34.8	42.3	52.3	63.5	84.6	99.5
57.5°	84.6	75.9	59.7	32.4	27.4	29.9	37.3	47.3	58.5	77.1	89.6
60°	79.6	72.2	58.5	26.1	21.2	24.9	31.1	41.1	53.5	72.2	83.4
62.5°	69.7	63.5	51.0	21.2	16.2	18.7	26.1	36.1	48.5	65.9	78.4
65°	57.2	51.0	39.8	13.7	10.0	12.4	19.9	31.1	42.3	59.7	70.9
67.5°	42.3	36.1	27.4	8.7	5.0	8.7	16.2	26.1	38.6	53.5	64.7
70°	26.1	21.2	14.9	5.0	3.7	7.5	14.9	24.9	34.8	49.8	61.0
72.5°	14.9	10.0	6.2	2.5	3.7	7.5	14.9	24.9	33.6	47.3	57.2
75°	11.2	6.2	2.5	1.2	2.5	6.2	13.7	22.4	32.4	44.8	54.8
77.5°	7.5	3.7	1.2	0.0	1.2	5.0	12.4	21.2	29.9	42.3	52.3
80°	1.2	0.0	0.0	0.0	0.0	3.7	11.2	18.7	27.4	37.3	46.0
82.5°	0.0	0.0	0.0	0.0	0.0	1.2	8.7	16.2	23.6	31.1	37.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	5.0	12.4	18.7	23.6	26.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	12.4	14.9	17.4
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°	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0
2.5°	508.9	516.4	516.4	521.4	527.6	538.8	545.0	553.7	559.9	566.2	568.7
5°	470.4	471.6	472.8	475.3	482.8	495.2	506.4	520.1	536.3	548.8	556.2
7.5°	438.0	438.0	438.0	441.7	449.2	457.9	469.1	487.8	506.4	521.4	533.8
10°	410.6	414.4	415.6	421.8	430.5	441.7	454.2	470.4	491.5	511.4	533.8
12.5°	393.2	396.9	403.2	409.4	418.1	430.5	444.2	465.4	508.9	550.0	597.3
15°	377.0	382.0	389.5	398.2	408.1	421.8	436.8	480.3	582.3	659.5	734.2
17.5°	359.6	367.1	377.0	385.7	398.2	413.1	431.8	516.4	716.7	844.9	971.8
20°	337.2	347.2	358.4	372.1	387.0	404.4	431.8	591.1	910.9	1095.0	1263.0
22.5°	316.1	326.0	339.7	357.1	374.5	392.0	438.0	704.3	1161.0	1393.7	1606.4
25°	298.6	311.1	324.8	339.7	359.6	379.5	452.9	863.6	1462.1	1762.0	1912.5
27.5°	282.5	297.4	311.1	323.5	340.9	363.3	486.5	1076.3	1818.0	2122.8	2241.0
30°	266.3	283.7	297.4	309.8	327.3	350.9	537.6	1347.6	2213.7	2509.8	2522.3
32.5°	252.6	268.8	285.0	297.4	313.6	340.9	608.5	1664.9	2619.3	2905.5	2788.5
35°	237.7	256.3	271.3	285.0	302.4	332.2	690.6	2007.1	3028.7	3268.9	3053.6
37.5°	222.7	243.9	262.6	272.5	289.9	323.5	750.3	2364.2	3446.8	3623.5	3286.3
40°	209.0	232.7	253.8	263.8	272.5	312.3	759.0	2730.1	3871.1	3973.1	3505.3
42.5°	194.1	220.2	238.9	252.6	260.1	304.9	706.8	3038.7	4227.0	4321.6	3791.5
45°	177.9	209.0	224.0	233.9	248.9	309.8	639.6	3277.6	4633.9	4796.9	4263.1
47.5°	161.8	196.6	209.0	216.5	236.4	339.7	614.7	3436.8	5304.6	5643.0	5058.2
50°	146.8	185.4	199.1	197.8	233.9	378.3	642.1	3557.5	6312.5	6710.7	6148.2
52.5°	130.7	173.0	189.1	184.2	252.6	408.1	696.8	3653.4	7087.7	7962.5	7612.8
55°	117.0	159.3	174.2	173.0	287.4	430.5	739.1	3148.2	7408.7	9125.9	9262.8
57.5°	107.0	144.3	156.8	177.9	309.8	430.5	854.9	2234.8	7415.0	9982.0	11452.8
60°	98.3	130.7	139.4	195.4	301.1	408.1	846.1	1368.8	6833.9	9923.5	12617.5
62.5°	90.8	118.2	129.4	200.3	266.3	404.4	764.0	848.6	5828.4	9168.2	11772.6
65°	84.6	108.3	124.4	184.2	241.4	433.0	515.2	609.7	4727.2	8307.2	10803.3
67.5°	78.4	99.5	131.9	150.6	219.0	387.0	372.1	433.0	3710.6	7362.7	9913.6
70°	73.4	94.6	139.4	123.2	191.6	302.4	263.8	328.5	2840.8	6143.3	8660.5
72.5°	69.7	88.3	117.0	97.1	155.5	233.9	184.2	238.9	1856.5	4795.7	7060.3
75°	65.9	80.9	85.9	78.4	115.7	153.1	139.4	160.5	1106.2	3505.3	5356.8
77.5°	64.7	75.9	69.7	63.5	78.4	90.8	105.8	108.3	540.0	1753.3	2807.2
80°	57.2	68.4	59.7	52.3	53.5	59.7	78.4	72.2	123.2	445.5	749.1
82.5°	44.8	53.5	49.8	43.6	43.6	43.6	52.3	48.5	39.8	200.3	338.5
85°	31.1	37.3	37.3	34.8	33.6	33.6	32.4	31.1	11.2	12.4	18.7
87.5°	21.2	26.1	27.4	26.1	22.4	19.9	17.4	14.9	5.0	0.0	2.5
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°	358°	360°
0°	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0
2.5°	577.4	581.1	581.1	576.1	572.4	562.4	552.5	542.5	540.0	538.8
5°	577.4	592.3	599.8	598.5	589.8	573.6	552.5	530.1	523.9	521.4
7.5°	568.7	597.3	619.7	623.4	607.2	578.6	540.0	506.4	497.7	494.0
10°	588.6	644.6	689.4	695.6	676.9	620.9	558.7	501.5	487.8	479.1
12.5°	695.6	787.7	842.4	868.5	832.5	761.5	658.3	556.2	525.1	511.4
15°	912.1	1042.7	1147.3	1147.3	1113.7	988.0	857.3	691.8	649.5	612.2
17.5°	1189.6	1353.8	1445.9	1436.0	1384.9	1296.6	1139.8	902.1	816.3	777.7
20°	1505.6	1603.9	1625.1	1618.9	1596.5	1545.5	1437.2	1182.1	1066.4	1006.7
22.5°	1779.4	1753.3	1722.2	1697.3	1691.0	1706.0	1691.0	1494.4	1403.6	1297.8
25°	1964.8	1816.7	1723.4	1678.6	1699.8	1785.6	1878.9	1805.5	1733.4	1623.9
27.5°	2065.6	1809.3	1674.9	1628.8	1664.9	1786.9	1989.7	2114.1	2039.5	1987.2
30°	2120.3	1803.0	1643.8	1599.0	1653.7	1806.8	2066.8	2402.8	2405.3	2321.9
32.5°	2198.7	1842.9	1650.0	1608.9	1682.3	1866.5	2163.9	2696.5	2768.6	2723.8
35°	2287.1	1903.8	1678.6	1641.3	1732.1	1946.1	2272.1	2992.6	3143.2	3128.2
37.5°	2370.5	1972.3	1745.8	1709.7	1808.0	2014.6	2376.7	3283.8	3492.8	3545.1
40°	2457.6	2068.1	1952.4	1987.2	2041.9	2122.8	2470.0	3536.4	3877.3	3955.7
42.5°	2662.9	2400.3	2577.0	2643.0	2650.4	2483.7	2674.1	3859.9	4255.6	4348.9
45°	3120.8	2991.4	3497.8	3591.1	3542.6	3037.4	3165.6	4326.5	4784.5	4831.7
47.5°	3699.4	3759.1	4758.3	5080.6	4789.4	3690.7	3761.6	5308.3	5752.5	5735.1
50°	4373.8	4656.3	6189.3	6949.6	6252.8	4539.3	4448.5	6515.3	7054.1	7000.6
52.5°	5171.4	5699.0	7909.0	8989.0	8329.6	5493.7	5456.4	8114.3	8442.8	8272.3
55°	6175.6	6705.7	9887.5	11396.8	10458.6	6658.4	6786.6	9968.3	10031.8	9490.5
57.5°	7673.8	8018.5	12219.3	14158.0	12681.0	8241.2	9170.7	12435.8	11676.8	10651.5
60°	10393.9	9707.0	14472.8	16982.6	15045.2	10467.3	12315.1	13897.9	12224.3	10810.7
62.5°	11340.8	11140.5	15883.9	18177.2	16635.5	12295.2	13132.7	13069.2	11515.0	10208.5
65°	9906.1	10783.4	15631.3	17546.3	16431.4	11994.1	11785.1	12154.6	10716.2	9293.9
67.5°	9150.8	9944.7	14674.4	15805.5	15300.3	10972.5	10504.6	10403.9	8996.5	7864.2
70°	8389.3	9175.7	13287.0	13427.6	13192.4	9307.6	8692.9	8017.2	6724.4	5740.1
72.5°	7473.5	7906.5	11362.0	10695.0	10428.7	7310.4	7181.0	6037.5	5040.8	4195.9
75°	6517.8	6392.1	8858.4	7340.3	7539.4	5687.8	6064.9	4433.6	3693.2	3020.0
77.5°	4740.9	4647.6	5933.0	4458.4	4937.5	3725.5	3347.3	1769.4	1684.8	1453.4
80°	2645.4	3189.2	3204.2	2498.6	3117.0	2428.9	837.4	58.5	37.3	54.8
82.5°	1229.4	1371.3	1737.1	1158.5	1778.1	1203.3	173.0	0.0	0.0	0.0
85°	398.2	582.3	487.8	170.5	430.5	406.9	28.6	0.0	0.0	0.0
87.5°	23.6	48.5	12.4	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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