

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: P640190

Luminaire Tested: GWS-SA5D-735-U-SLR-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640190  
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-SA5D-735-U-SLR-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

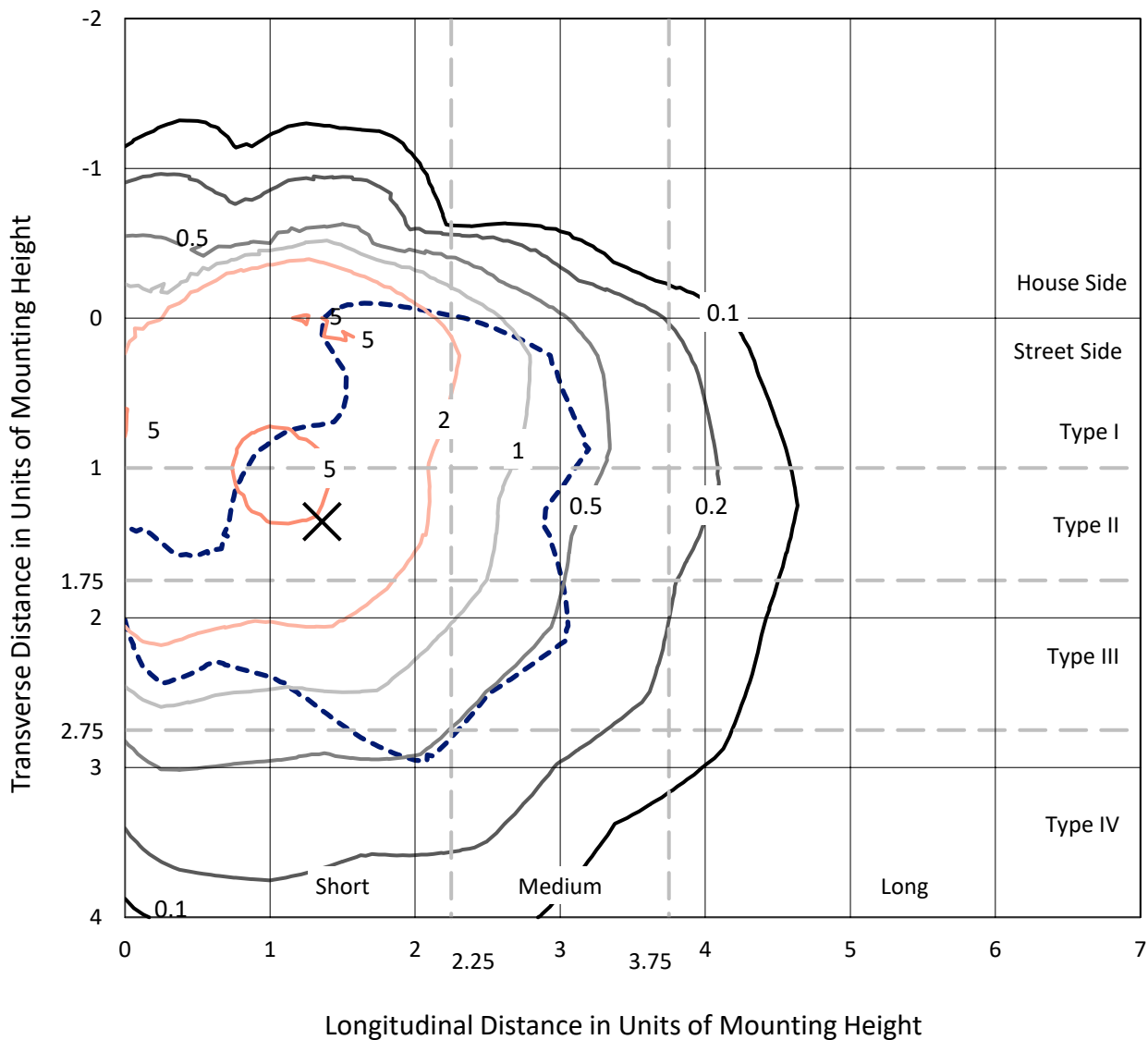
Lumens per Lamp: N/A  
Luminaire Lumens: 18387.8 lumens  
Efficiency: N/A  
Efficacy: 89.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

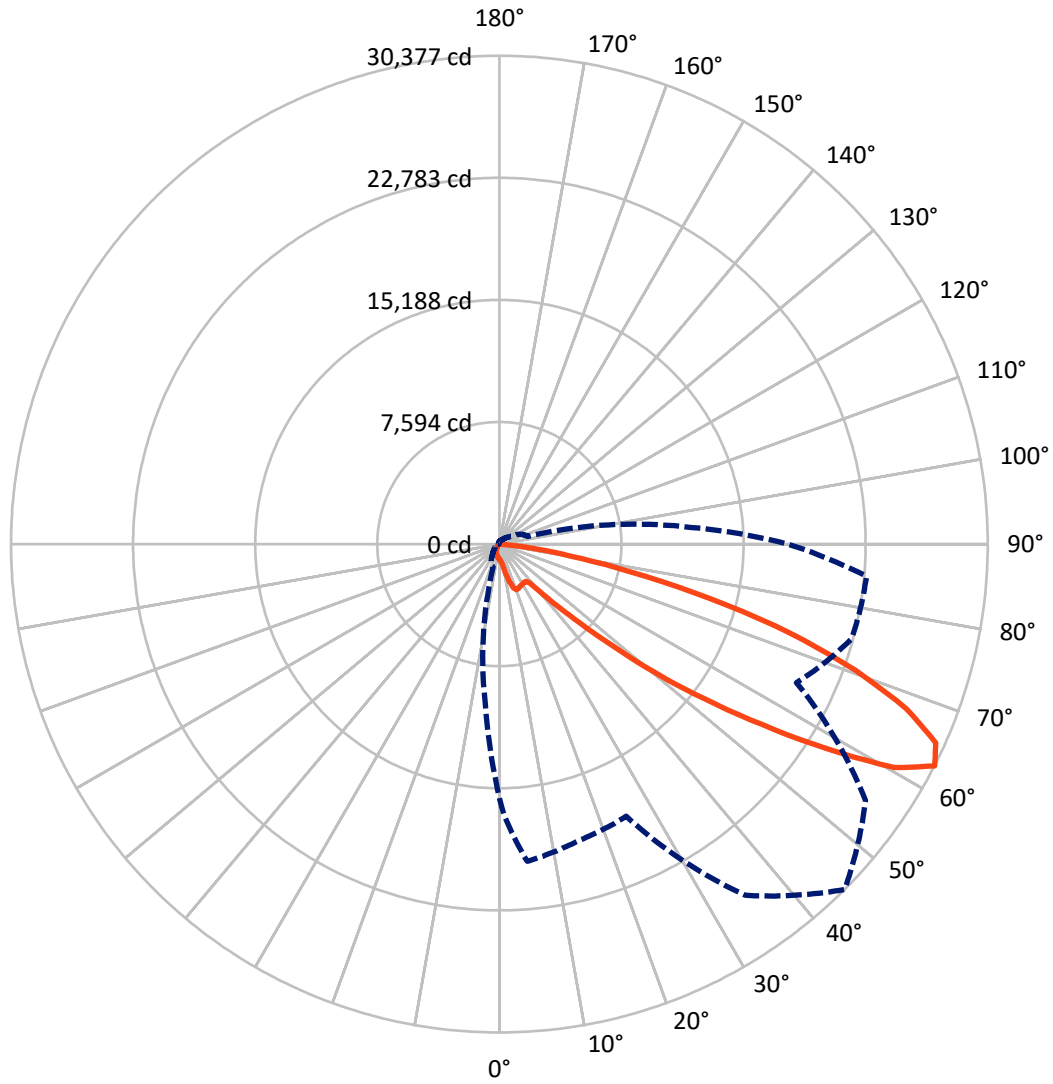
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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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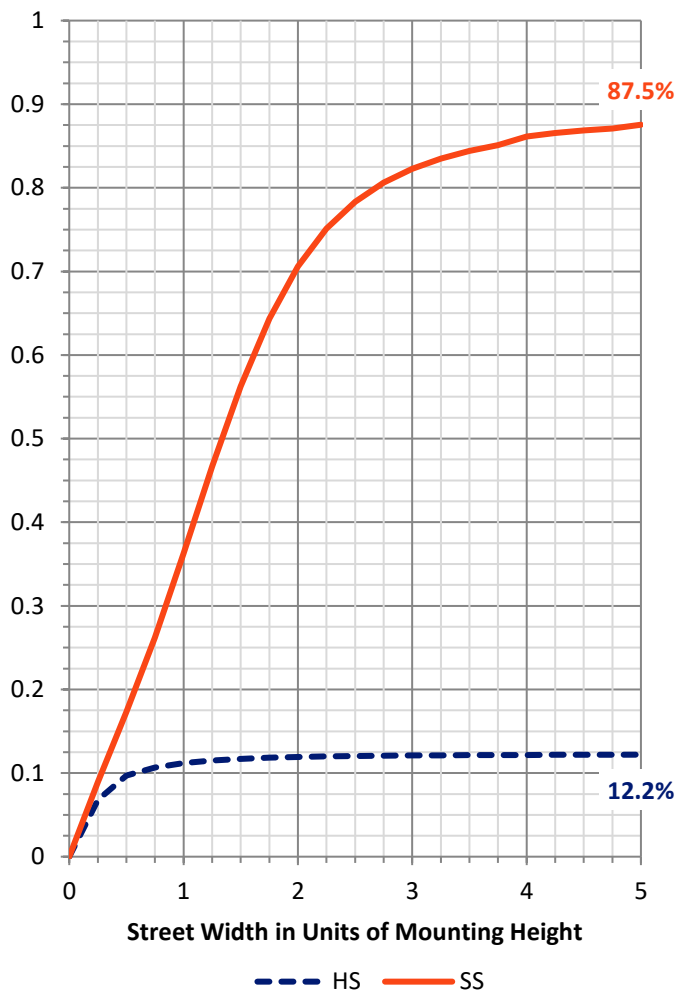
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2269.0	0.0	2269.0
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	16118.8	0.0	16118.8
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	18387.8	0.0	18387.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.8	0.5
10°-20°	320.6	1.7
20°-30°	696.9	3.8
30°-40°	1143.8	6.2
40°-50°	2102.8	11.4
50°-60°	4515.8	24.6
60°-70°	6065.4	33.0
70°-80°	3158.3	17.2
80°-90°	299.5	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°	18387.8	100.0
0°-180°	18387.8	100.0

**Coefficient of Utilization**







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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	955.8	955.8	955.8	955.8	955.8	955.8	955.8	955.8	955.8	955.8	955.8
2.5°	974.9	979.1	983.4	998.3	1008.9	1017.4	1019.5	1013.1	998.3	983.4	962.2
5°	945.2	949.4	964.3	1004.6	1045.0	1076.8	1087.5	1081.1	1045.0	998.3	949.4
7.5°	943.0	951.5	987.6	1072.6	1159.7	1225.5	1242.5	1227.6	1159.7	1066.2	966.4
10°	1019.5	1034.4	1087.5	1240.4	1399.7	1516.5	1563.2	1499.5	1391.2	1221.3	1057.7
12.5°	1219.2	1244.6	1346.6	1569.6	1816.0	1971.0	2034.8	1956.2	1786.2	1539.9	1280.7
15°	1533.5	1571.7	1724.7	2058.1	2349.1	2487.2	2508.4	2463.8	2266.3	1994.4	1646.1
17.5°	1977.4	2032.6	2270.5	2610.3	2820.6	2869.5	2863.1	2816.4	2671.9	2485.0	2155.8
20°	2508.4	2574.2	2807.9	3088.2	3109.5	3052.1	3020.3	2992.7	2943.8	2911.9	2654.9
22.5°	3043.6	3124.3	3368.6	3438.7	3247.5	3081.9	3003.3	3024.5	3096.7	3253.9	3149.8
25°	3576.7	3653.2	3882.6	3693.6	3311.2	3035.1	2935.3	2986.3	3158.3	3498.2	3632.0
27.5°	4199.1	4256.4	4392.3	3867.7	3321.9	2996.9	2899.2	2977.8	3188.1	3651.1	4160.8
30°	4846.9	4880.9	4815.0	3914.5	3285.8	2939.6	2863.1	2977.8	3239.0	3753.0	4558.0
32.5°	5322.6	5329.0	5114.5	3918.7	3266.6	2892.8	2829.1	2965.0	3287.9	3838.0	4942.4
35°	5813.3	5781.4	5401.2	3982.4	3317.6	2909.8	2854.6	3001.2	3364.3	3937.8	5280.2
37.5°	6310.3	6252.9	5721.9	4086.5	3449.3	3094.6	3060.6	3185.9	3487.5	4075.9	5651.8
40°	6820.0	6741.4	6055.4	4243.7	3742.4	3723.3	3840.1	3825.2	3825.2	4252.2	6034.2
42.5°	7442.3	7351.0	6548.2	4687.6	4426.3	4853.2	5171.8	4974.3	4609.0	4657.8	6531.2
45°	8264.3	8185.7	7402.0	5537.2	5498.9	6480.2	6909.2	6518.4	5609.4	5594.5	7361.6
47.5°	9579.0	9564.2	8763.4	6522.7	6811.5	8551.1	9379.4	8627.5	6749.9	6586.4	8933.4
50°	11426.9	11382.3	10460.5	7678.1	8372.6	11116.8	12595.1	11341.9	8128.4	7743.9	11038.2
52.5°	13508.4	13555.1	12837.2	8939.7	10031.4	13971.4	16029.5	14451.4	9625.8	9215.9	13686.8
55°	15468.8	15736.4	15547.4	10415.9	11652.0	17123.3	19801.7	17862.5	11480.0	11142.3	16656.1
57.5°	17002.3	17756.3	19081.6	12561.1	13557.2	20810.5	24013.5	21560.3	13644.3	14270.9	20698.0
60°	17087.2	18085.5	21163.1	17049.0	16008.3	23973.1	28218.9	25173.1	17046.9	19582.9	23864.8
62.5°	15806.5	16877.0	19808.0	19088.0	18678.1	26664.2	30376.8	27806.8	20394.2	22694.5	22926.0
65°	14341.0	15422.1	18295.8	16775.0	18368.0	26549.5	29828.9	27868.4	20698.0	20579.0	21245.9
67.5°	12125.7	13096.3	15698.2	14848.6	16930.1	25268.7	27297.1	26111.9	19068.9	19247.3	19544.7
70°	8850.5	9785.1	12200.0	12242.5	14784.9	22960.0	23454.9	23291.3	17560.9	17749.9	16900.3
72.5°	6393.1	7181.1	9264.7	10039.9	11802.8	19253.7	18911.7	19542.5	15067.4	15808.6	13574.2
75°	4596.2	5186.7	6796.7	8733.7	9356.0	14298.5	13538.1	15135.3	12089.6	13612.4	10205.6
77.5°	1864.8	2073.0	2674.1	5883.4	6148.9	9619.4	8287.7	10993.6	8619.0	8944.0	4946.7
80°	76.5	85.0	110.4	3037.3	4216.1	5411.8	4434.8	5877.0	5692.2	3602.2	1168.2
82.5°	8.5	8.5	19.1	875.1	1845.7	2986.3	2090.0	3385.6	2882.2	1527.1	531.0
85°	2.1	2.1	4.2	99.8	433.3	477.9	282.5	1038.6	1340.2	624.4	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.6	19.1	21.2	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°	955.8	955.8	955.8	955.8	955.8	955.8	955.8	955.8	955.8	955.8	955.8
2.5°	962.2	951.5	938.8	926.0	919.7	902.7	896.3	892.1	887.8	889.9	889.9
5°	930.3	906.9	879.3	851.7	836.8	819.8	811.4	807.1	809.2	817.7	817.7
7.5°	926.0	881.4	822.0	785.9	768.9	756.1	747.6	743.4	745.5	756.1	760.4
10°	996.1	917.5	811.4	749.8	730.6	717.9	709.4	703.0	698.8	707.3	709.4
12.5°	1146.9	1038.6	862.3	745.5	711.5	694.5	688.2	675.4	669.0	673.3	675.4
15°	1459.2	1272.3	964.3	762.5	694.5	675.4	664.8	654.2	643.6	641.4	643.6
17.5°	1867.0	1599.3	1119.3	802.9	681.8	658.4	643.6	628.7	613.8	611.7	609.6
20°	2372.5	2000.8	1336.0	866.6	671.2	643.6	622.3	601.1	582.0	575.6	575.6
22.5°	2833.4	2485.0	1614.2	945.2	656.3	622.3	596.8	571.3	550.1	539.5	537.4
25°	3396.2	2999.0	1947.7	1036.5	635.1	594.7	567.1	541.6	520.4	507.6	503.4
27.5°	3963.3	3540.6	2325.7	1155.4	609.6	567.1	541.6	518.2	494.9	480.0	475.8
30°	4513.4	4124.7	2750.5	1304.1	590.5	539.5	518.2	494.9	473.6	450.3	443.9
32.5°	5103.9	4721.6	3226.3	1469.8	575.6	520.4	497.0	475.8	448.2	426.9	416.3
35°	5673.1	5337.5	3750.9	1631.2	560.7	503.4	477.9	456.7	426.9	403.6	388.7
37.5°	6246.6	5964.1	4298.9	1728.9	539.5	480.0	456.7	439.7	405.7	378.1	361.1
40°	6854.0	6611.9	4891.5	1688.5	520.4	454.5	441.8	422.7	384.4	352.6	331.3
42.5°	7520.9	7230.0	5494.7	1533.5	503.4	433.3	420.5	401.4	365.3	327.1	299.5
45°	8359.9	7907.5	5989.6	1299.9	511.9	412.0	386.6	382.3	348.3	299.5	265.5
47.5°	9802.1	8948.2	6374.0	1149.1	569.2	388.7	358.9	369.6	333.5	271.9	233.6
50°	12008.9	10672.9	6732.9	1138.4	656.3	378.1	333.5	361.1	318.6	244.3	206.0
52.5°	14111.6	12425.1	6962.3	1231.9	732.8	405.7	308.0	350.5	308.0	225.1	186.9
55°	16123.0	13436.2	6552.4	1299.9	805.0	488.5	288.9	333.5	295.2	214.5	180.5
57.5°	18291.5	13886.4	5159.1	1437.9	856.0	558.6	293.1	308.0	278.2	208.1	178.4
60°	18939.3	13310.8	3113.7	1618.5	828.3	579.8	325.0	274.0	254.9	195.4	172.0
62.5°	17932.6	11945.1	1837.2	1474.0	805.0	548.0	371.7	252.8	231.5	178.4	159.3
65°	16426.7	10090.9	1197.9	1244.6	853.8	488.5	395.1	242.1	210.3	161.4	140.2
67.5°	14706.3	8128.4	839.0	734.9	788.0	439.7	333.5	240.0	189.0	135.9	114.7
70°	12386.9	6087.3	590.5	486.4	656.3	390.8	259.1	233.6	165.7	110.4	89.2
72.5°	9570.6	3810.4	439.7	314.3	467.3	318.6	206.0	197.5	133.8	91.3	68.0
75°	7057.9	2172.8	310.1	227.3	308.0	242.1	152.9	140.2	114.7	87.1	61.6
77.5°	3685.1	1087.5	193.3	174.2	176.3	150.8	110.4	101.9	106.2	87.1	57.3
80°	707.3	216.6	116.8	127.4	95.6	95.6	80.7	85.0	93.5	70.1	48.9
82.5°	295.2	46.7	63.7	72.2	59.5	65.8	65.8	68.0	65.8	51.0	36.1
85°	0.0	0.0	27.6	29.7	40.4	40.4	34.0	34.0	34.0	29.7	21.2
87.5°	0.0	0.0	0.0	0.0	2.1	6.4	12.7	14.9	17.0	12.7	8.5
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	955.8	955.8	955.8	955.8	955.8	955.8	955.8	955.8	955.8	955.8	955.8
2.5°	887.8	883.6	889.9	894.2	898.4	898.4	894.2	889.9	883.6	889.9	883.6
5°	819.8	826.2	836.8	841.1	845.3	836.8	832.6	819.8	809.2	811.4	807.1
7.5°	766.7	773.1	785.9	794.4	794.4	790.1	777.4	764.6	747.6	747.6	745.5
10°	717.9	726.4	741.3	751.9	756.1	751.9	739.1	722.1	707.3	707.3	700.9
12.5°	677.5	688.2	705.2	720.0	724.3	720.0	707.3	690.3	673.3	673.3	669.0
15°	643.6	656.3	675.4	692.4	698.8	692.4	677.5	656.3	639.3	641.4	635.1
17.5°	611.7	622.3	647.8	666.9	673.3	666.9	647.8	620.2	603.2	607.5	603.2
20°	575.6	588.3	613.8	635.1	641.4	635.1	613.8	584.1	567.1	567.1	569.2
22.5°	537.4	550.1	575.6	590.5	599.0	592.6	571.3	543.7	526.7	526.7	528.9
25°	503.4	509.7	528.9	543.7	545.9	539.5	522.5	501.3	488.5	494.9	497.0
27.5°	471.5	471.5	480.0	488.5	486.4	480.0	473.6	456.7	454.5	460.9	467.3
30°	437.5	426.9	422.7	416.3	414.2	412.0	418.4	418.4	422.7	431.2	437.5
32.5°	407.8	386.6	367.4	348.3	337.7	346.2	363.2	378.1	392.9	405.7	412.0
35°	373.8	339.8	308.0	282.5	265.5	278.2	305.8	333.5	358.9	375.9	386.6
37.5°	339.8	291.0	252.8	220.9	208.1	218.8	248.5	286.7	325.0	346.2	361.1
40°	303.7	242.1	197.5	172.0	159.3	169.9	199.7	237.9	288.9	316.5	335.6
42.5°	267.6	199.7	159.3	133.8	127.4	133.8	157.2	195.4	250.6	284.6	310.1
45°	231.5	165.7	127.4	108.3	101.9	108.3	127.4	159.3	214.5	252.8	282.5
47.5°	199.7	140.2	106.2	89.2	85.0	91.3	106.2	133.8	180.5	218.8	252.8
50°	174.2	123.2	91.3	76.5	72.2	78.6	91.3	112.6	152.9	186.9	223.0
52.5°	157.2	114.7	80.7	65.8	63.7	68.0	78.6	95.6	129.6	159.3	193.3
55°	152.9	114.7	74.3	59.5	57.3	61.6	70.1	82.8	112.6	138.1	167.8
57.5°	157.2	123.2	70.1	51.0	48.9	53.1	61.6	72.2	97.7	118.9	146.6
60°	157.2	125.3	61.6	40.4	38.2	42.5	51.0	63.7	87.1	104.1	127.4
62.5°	142.3	114.7	51.0	31.9	27.6	31.9	42.5	53.1	76.5	93.5	112.6
65°	123.2	97.7	42.5	23.4	19.1	23.4	34.0	44.6	65.8	80.7	101.9
67.5°	99.8	74.3	31.9	17.0	12.7	17.0	25.5	36.1	55.2	70.1	91.3
70°	74.3	53.1	25.5	14.9	12.7	14.9	23.4	34.0	48.9	63.7	85.0
72.5°	55.2	36.1	21.2	14.9	10.6	14.9	21.2	31.9	46.7	61.6	80.7
75°	46.7	29.7	19.1	12.7	10.6	12.7	19.1	29.7	42.5	57.3	76.5
77.5°	44.6	27.6	17.0	10.6	8.5	10.6	17.0	25.5	38.2	53.1	74.3
80°	38.2	23.4	14.9	8.5	6.4	8.5	14.9	21.2	29.7	40.4	57.3
82.5°	29.7	19.1	10.6	4.2	2.1	4.2	10.6	12.7	19.1	23.4	34.0
85°	19.1	10.6	4.2	0.0	0.0	0.0	4.2	8.5	8.5	10.6	17.0
87.5°	8.5	2.1	0.0	0.0	0.0	0.0	0.0	0.0	2.1	4.2	6.4
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	955.8	955.8	955.8	955.8	955.8	955.8	955.8	955.8	955.8	955.8
2.5°	896.3	898.4	902.7	909.1	923.9	936.7	949.4	966.4	974.9	974.9
5°	811.4	813.5	815.6	824.1	845.3	862.3	889.9	923.9	940.9	945.2
7.5°	745.5	749.8	754.0	760.4	781.6	805.0	841.1	904.8	936.7	943.0
10°	707.3	713.6	722.1	734.9	754.0	779.5	841.1	955.8	1008.9	1019.5
12.5°	677.5	688.2	696.7	711.5	734.9	775.2	898.4	1100.2	1193.7	1219.2
15°	647.8	660.6	673.3	688.2	713.6	790.1	1008.9	1359.3	1514.4	1533.5
17.5°	618.1	632.9	649.9	666.9	698.8	826.2	1183.0	1718.3	1934.9	1977.4
20°	584.1	603.2	626.6	647.8	683.9	883.6	1425.2	2145.2	2417.1	2508.4
22.5°	548.0	571.3	599.0	626.6	666.9	953.7	1718.3	2604.0	2984.2	3043.6
25°	518.2	541.6	567.1	594.7	639.3	1038.6	2073.0	3173.2	3519.4	3576.7
27.5°	490.6	514.0	537.4	562.8	611.7	1149.1	2499.9	3778.5	4139.6	4199.1
30°	460.9	488.5	511.9	537.4	586.2	1285.0	2992.7	4449.7	4791.6	4846.9
32.5°	435.4	463.0	486.4	511.9	567.1	1433.7	3510.9	5044.4	5322.6	5322.6
35°	414.2	443.9	460.9	494.9	552.2	1529.2	4001.5	5611.5	5821.8	5813.3
37.5°	390.8	426.9	439.7	463.0	533.1	1539.9	4462.4	6210.5	6365.5	6310.3
40°	367.4	405.7	424.8	437.5	511.9	1452.8	4967.9	6760.6	6892.2	6820.0
42.5°	346.2	375.9	403.6	418.4	499.1	1299.9	5373.6	7348.9	7506.1	7442.3
45°	325.0	350.5	367.4	395.1	507.6	1193.7	5721.9	8034.9	8311.0	8264.3
47.5°	303.7	325.0	335.6	378.1	565.0	1144.8	5934.3	9096.9	9617.3	9579.0
50°	280.4	305.8	305.8	373.8	649.9	1161.8	6119.1	10634.7	11439.6	11426.9
52.5°	257.0	284.6	280.4	405.7	715.8	1240.4	6329.4	11991.9	13391.5	13508.4
55°	233.6	259.1	263.4	469.4	754.0	1308.4	5515.9	12563.2	15058.9	15468.8
57.5°	208.1	223.0	274.0	518.2	741.3	1505.9	3778.5	12667.3	16123.0	17002.3
60°	180.5	193.3	310.1	507.6	700.9	1391.2	2378.8	11732.7	15972.2	17087.2
62.5°	157.2	178.4	327.1	448.2	713.6	1206.4	1516.5	9999.6	14534.2	15806.5
65°	138.1	172.0	297.4	405.7	722.1	817.7	1023.7	8134.8	13130.3	14341.0
67.5°	123.2	191.2	244.3	361.1	620.2	575.6	703.0	6320.9	11040.3	12125.7
70°	112.6	195.4	199.7	310.1	480.0	369.6	463.0	4254.3	7610.1	8850.5
72.5°	101.9	144.4	150.8	248.5	310.1	225.1	299.5	2434.1	5547.8	6393.1
75°	97.7	97.7	104.1	161.4	172.0	163.5	193.3	1452.8	3978.2	4596.2
77.5°	91.3	74.3	65.8	104.1	93.5	116.8	114.7	645.7	1724.7	1864.8
80°	72.2	53.1	44.6	65.8	63.7	78.6	68.0	53.1	78.6	76.5
82.5°	44.6	34.0	31.9	40.4	36.1	40.4	31.9	8.5	8.5	8.5
85°	21.2	19.1	17.0	17.0	19.1	17.0	12.7	4.2	2.1	2.1
87.5°	10.6	10.6	8.5	6.4	8.5	8.5	6.4	2.1	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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