

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: P640186

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640186
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-SA5D-735-U-SLL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17939.6 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

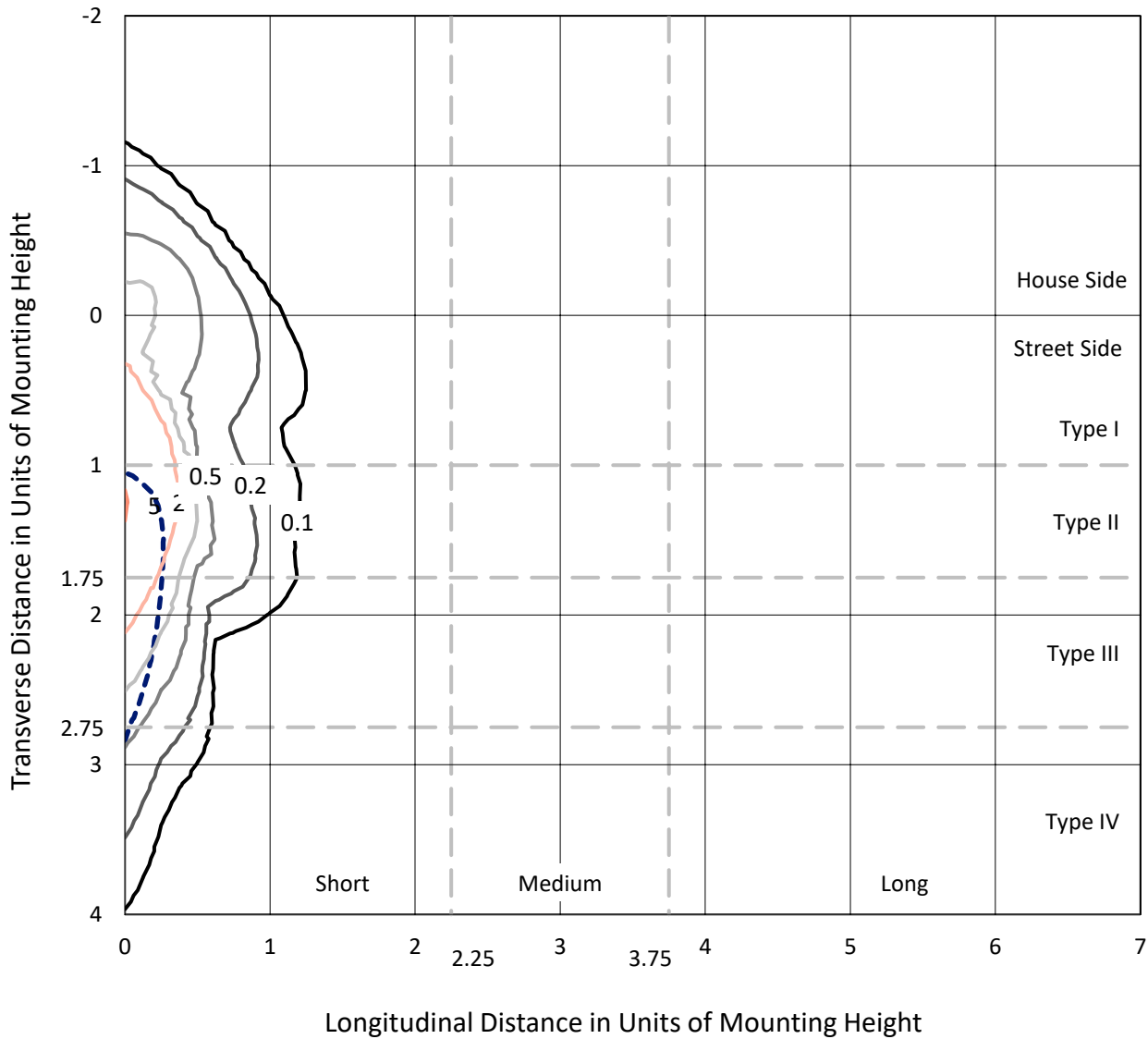
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

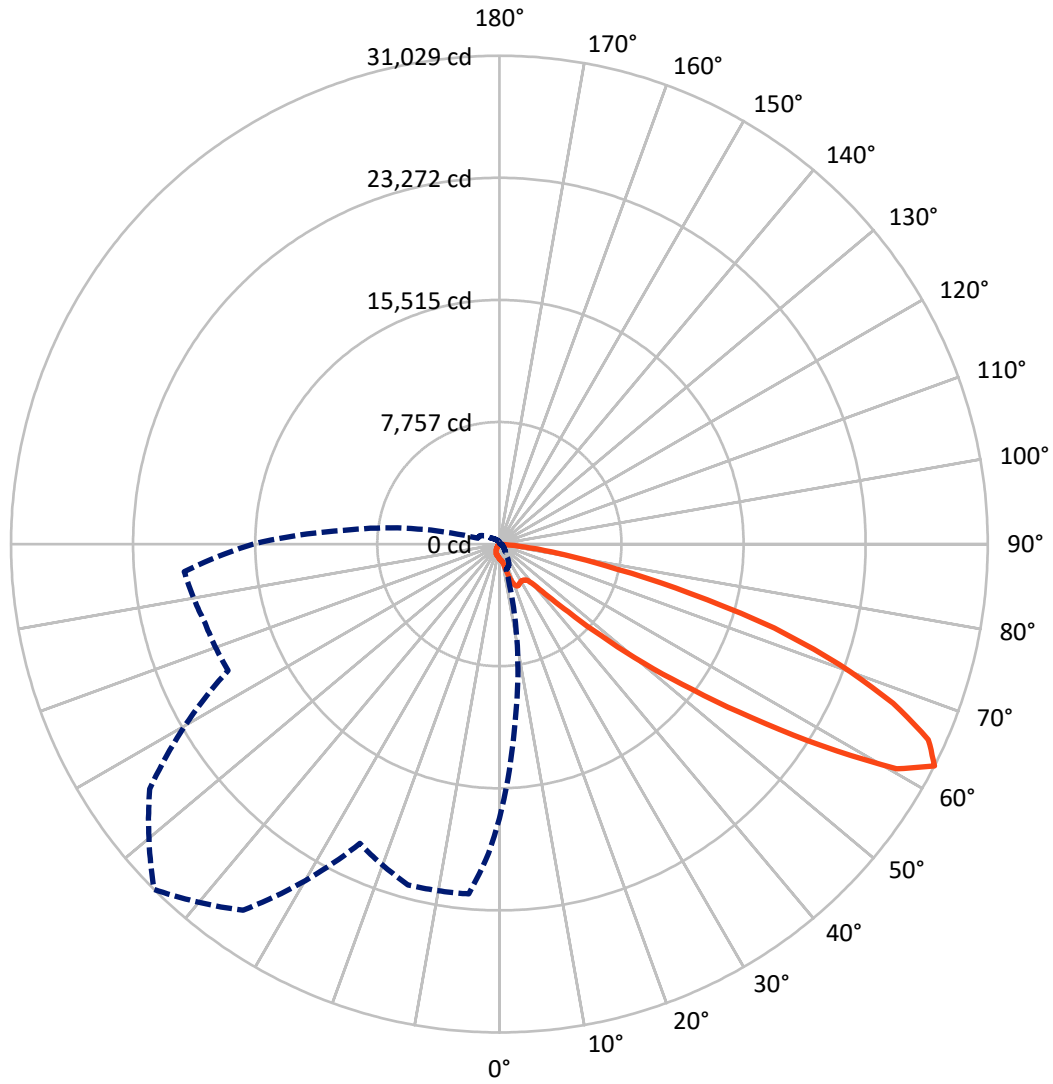
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	2084.3	0.0	2084.3
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	15855.3	0.0	15855.3
	% Fixture	88.4	0.0	88.4
Total	Lumens	17939.6	0.0	17939.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.3	0.4
10°-20°	275.4	1.5
20°-30°	622.1	3.5
30°-40°	1071.7	6.0
40°-50°	2021.6	11.3
50°-60°	4513.8	25.2
60°-70°	6037.1	33.7
70°-80°	3027.4	16.9
80°-90°	290.2	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°	17939.6	100.0
0°-180°	17939.6	100.0

Coefficient of Utilization



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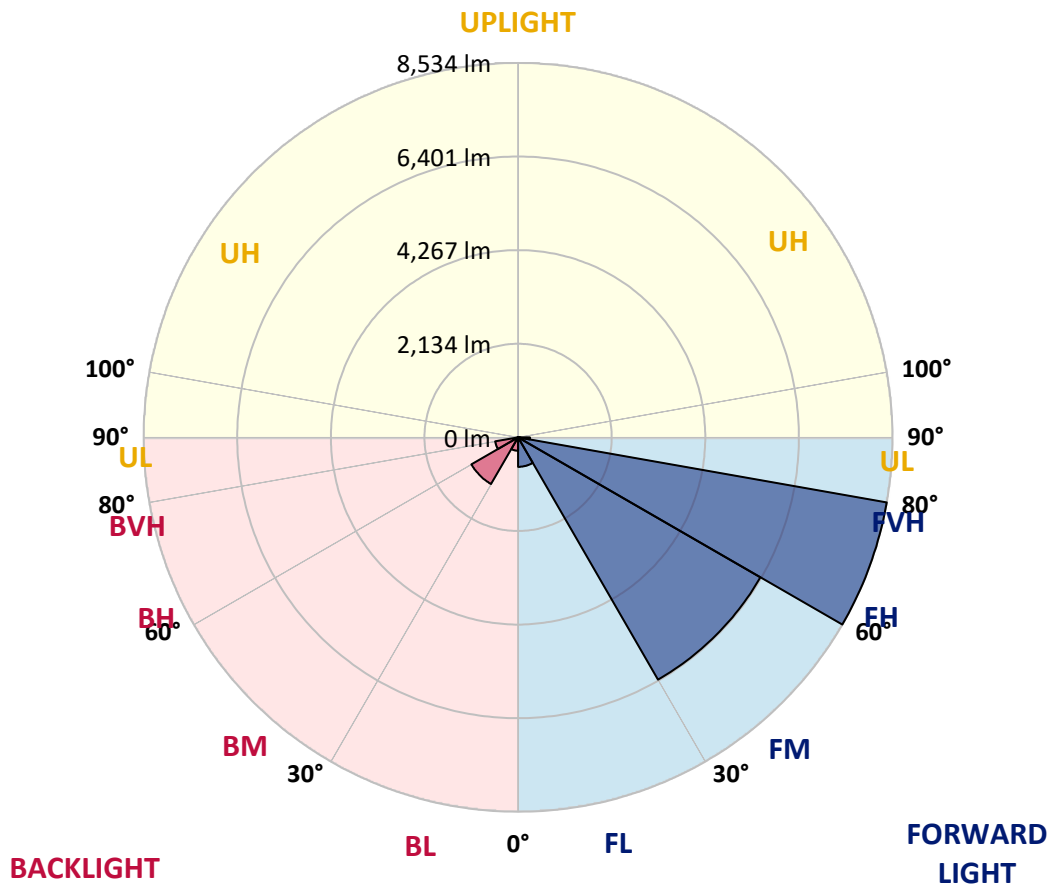
CATALOG NUMBER: GWS-SA5D-735-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	671.9	3.7			
FM (30°-60°)	6378.1	35.6			
FH (60°-80°)	8534.5	47.6			G4/12000
FVH (80°-90°)	270.9	1.5			G3/500
BL (0°-30°)	305.9	1.7	B1/500		
BM (30°-60°)	1229.1	6.9	B2/2500		
BH (60°-80°)	530.0	3.0	B2/1000		G2/1000
BVH (80°-90°)	19.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	930.4	930.4	930.4	930.4	930.4	930.4	930.4	930.4	930.4	930.4	930.4
2.5°	919.8	917.6	913.4	900.6	890.0	883.6	870.9	870.9	868.8	864.5	856.0
5°	890.0	881.5	873.0	849.7	824.2	809.3	792.3	790.2	790.2	785.9	783.8
7.5°	843.3	834.8	824.2	785.9	762.6	747.7	732.8	730.7	724.3	724.3	724.3
10°	817.8	805.0	788.1	745.6	722.2	709.5	698.8	692.5	688.2	681.8	679.7
12.5°	873.0	849.7	813.5	737.1	705.2	688.2	675.5	671.2	658.5	650.0	643.6
15°	1045.1	987.7	915.5	756.2	698.8	673.4	656.4	647.9	637.2	622.4	611.8
17.5°	1327.6	1244.7	1123.7	817.8	692.5	660.6	639.4	624.5	609.6	592.6	579.9
20°	1718.4	1595.2	1450.8	930.4	692.5	645.7	620.2	601.1	579.9	560.8	545.9
22.5°	2215.5	2092.3	1845.9	1121.5	701.0	626.6	596.9	571.4	545.9	528.9	511.9
25°	2772.0	2597.8	2368.4	1353.1	724.3	601.1	569.3	543.8	520.4	499.2	480.1
27.5°	3392.3	3203.2	2897.3	1682.3	775.3	575.6	539.5	516.2	494.9	473.7	448.2
30°	3963.6	3851.1	3538.8	2077.4	858.2	558.6	516.2	494.9	473.7	446.1	422.7
32.5°	4649.7	4450.1	4193.1	2527.7	968.6	541.7	497.0	467.3	450.3	424.8	399.3
35°	5340.1	5170.2	4832.4	3082.1	1091.8	524.7	473.7	446.1	431.2	401.5	373.8
37.5°	6051.7	6013.4	5680.0	3696.0	1212.9	505.5	446.1	429.1	414.2	380.2	348.4
40°	6752.6	6682.5	6374.5	4397.0	1287.2	484.3	422.7	412.1	395.1	356.9	320.7
42.5°	7423.9	7370.8	7071.3	5068.2	1276.6	465.2	399.3	386.6	373.8	335.6	291.0
45°	8248.0	8160.9	7782.8	5565.2	1168.3	486.4	376.0	354.7	352.6	316.5	261.3
47.5°	9790.2	9503.4	8861.9	5947.6	1059.9	541.7	350.5	325.0	339.9	297.4	231.5
50°	11950.4	11612.7	10684.4	6245.0	1057.8	613.9	346.2	297.4	329.2	282.5	206.0
52.5°	14121.3	13526.5	12398.6	6404.3	1136.4	667.0	384.5	269.8	316.5	267.6	186.9
55°	16200.8	14966.7	13116.6	5877.5	1198.0	724.3	454.6	254.9	293.1	250.6	176.3
57.5°	18182.6	16124.3	13428.8	4649.7	1404.1	747.7	497.0	261.3	259.1	229.4	167.8
60°	18454.5	16069.1	12797.9	2704.0	1548.5	707.3	480.1	291.0	227.3	203.9	152.9
62.5°	17426.4	15000.7	11359.9	1686.6	1438.0	692.5	427.0	331.4	206.0	180.6	133.8
65°	15865.2	13324.7	9471.5	1087.6	1089.7	768.9	373.8	325.0	193.3	159.3	114.7
67.5°	13424.6	11151.7	7462.1	728.6	616.0	656.4	327.1	223.0	189.0	135.9	89.2
70°	9798.7	7937.9	4857.9	486.4	367.5	524.7	274.0	159.3	178.4	112.6	63.7
72.5°	7162.6	5333.7	2712.5	318.6	208.2	305.9	201.8	114.7	138.1	82.8	44.6
75°	5155.3	3670.5	1548.5	203.9	138.1	167.8	131.7	78.6	89.2	65.8	40.4
77.5°	2481.0	1788.5	703.1	112.6	93.5	85.0	70.1	48.9	55.2	59.5	36.1
80°	93.5	70.1	53.1	55.2	59.5	38.2	31.9	25.5	31.9	40.4	19.1
82.5°	0.0	0.0	0.0	6.4	8.5	10.6	12.7	10.6	12.7	14.9	2.1
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°	930.4	930.4	930.4	930.4	930.4	930.4	930.4	930.4	930.4	930.4	930.4
2.5°	862.4	858.2	862.4	866.6	870.9	875.1	868.8	873.0	877.3	866.6	870.9
5°	794.4	792.3	805.0	811.4	819.9	824.2	819.9	819.9	817.8	805.0	805.0
7.5°	735.0	737.1	747.7	762.6	773.2	779.6	775.3	773.2	766.8	747.7	747.7
10°	690.3	690.3	707.3	720.1	735.0	741.3	737.1	730.7	724.3	705.2	703.1
12.5°	654.2	654.2	667.0	688.2	705.2	713.7	711.6	703.1	692.5	673.4	671.2
15°	620.2	618.1	637.2	656.4	679.7	690.3	686.1	679.7	660.6	643.6	639.4
17.5°	586.3	584.1	601.1	626.6	652.1	667.0	664.9	650.0	633.0	611.8	607.5
20°	552.3	548.0	569.3	594.8	620.2	635.1	630.9	618.1	596.9	575.6	571.4
22.5°	518.3	516.2	531.0	552.3	575.6	588.4	586.3	575.6	554.4	535.3	535.3
25°	480.1	480.1	490.7	505.5	522.5	528.9	531.0	526.8	514.0	503.4	503.4
27.5°	448.2	441.8	446.1	450.3	458.8	469.4	469.4	473.7	475.8	471.6	473.7
30°	422.7	412.1	405.7	397.2	393.0	397.2	401.5	416.3	431.2	439.7	443.9
32.5°	393.0	380.2	363.2	339.9	325.0	320.7	333.5	361.1	388.7	407.8	418.5
35°	363.2	346.2	314.4	280.4	261.3	254.9	269.8	301.6	342.0	376.0	390.8
37.5°	333.5	310.1	265.5	225.2	203.9	199.7	214.5	248.5	295.3	342.0	361.1
40°	299.5	271.9	218.8	176.3	159.3	155.1	167.8	201.8	250.6	303.8	333.5
42.5°	265.5	231.5	176.3	140.2	123.2	123.2	140.2	165.7	210.3	267.6	303.8
45°	231.5	195.4	144.4	112.6	102.0	104.1	114.7	140.2	176.3	235.8	269.8
47.5°	199.7	167.8	119.0	93.5	85.0	87.1	99.8	121.1	150.8	203.9	240.0
50°	172.1	142.3	104.1	78.6	72.2	76.5	89.2	108.3	133.8	180.6	210.3
52.5°	155.1	127.4	95.6	68.0	63.7	68.0	80.7	97.7	121.1	159.3	189.0
55°	146.6	125.3	95.6	61.6	55.2	59.5	72.2	89.2	108.3	144.4	169.9
57.5°	144.4	129.6	102.0	55.2	46.7	51.0	63.7	80.7	99.8	131.7	152.9
60°	135.9	123.2	99.8	44.6	36.1	42.5	53.1	70.1	91.3	123.2	142.3
62.5°	119.0	108.3	87.1	36.1	27.6	31.9	44.6	61.6	82.8	112.6	133.8
65°	97.7	87.1	68.0	23.4	17.0	21.2	34.0	53.1	72.2	102.0	121.1
67.5°	72.2	61.6	46.7	14.9	8.5	14.9	27.6	44.6	65.8	91.3	110.5
70°	44.6	36.1	25.5	8.5	6.4	12.7	25.5	42.5	59.5	85.0	104.1
72.5°	25.5	17.0	10.6	4.2	6.4	12.7	25.5	42.5	57.4	80.7	97.7
75°	19.1	10.6	4.2	2.1	4.2	10.6	23.4	38.2	55.2	76.5	93.5
77.5°	12.7	6.4	2.1	0.0	2.1	8.5	21.2	36.1	51.0	72.2	89.2
80°	2.1	0.0	0.0	0.0	0.0	6.4	19.1	31.9	46.7	63.7	78.6
82.5°	0.0	0.0	0.0	0.0	0.0	2.1	14.9	27.6	40.4	53.1	63.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	8.5	21.2	31.9	40.4	44.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.6	21.2	25.5	29.7
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°	930.4	930.4	930.4	930.4	930.4	930.4	930.4	930.4	930.4	930.4	930.4
2.5°	868.8	881.5	881.5	890.0	900.6	919.8	930.4	945.2	955.9	966.5	970.7
5°	802.9	805.0	807.2	811.4	824.2	845.4	864.5	887.9	915.5	936.7	949.5
7.5°	747.7	747.7	747.7	754.1	766.8	781.7	800.8	832.7	864.5	890.0	911.3
10°	701.0	707.3	709.5	720.1	735.0	754.1	775.3	802.9	839.0	873.0	911.3
12.5°	671.2	677.6	688.2	698.8	713.7	735.0	758.3	794.4	868.8	938.9	1019.6
15°	643.6	652.1	664.9	679.7	696.7	720.1	745.6	819.9	994.1	1125.8	1253.2
17.5°	613.9	626.6	643.6	658.5	679.7	705.2	737.1	881.5	1223.5	1442.3	1659.0
20°	575.6	592.6	611.8	635.1	660.6	690.3	737.1	1009.0	1554.9	1869.2	2156.0
22.5°	539.5	556.5	579.9	609.6	639.4	669.1	747.7	1202.3	1981.8	2379.0	2742.3
25°	509.8	531.0	554.4	579.9	613.9	647.9	773.2	1474.2	2495.9	3007.8	3264.8
27.5°	482.2	507.7	531.0	552.3	582.0	620.2	830.5	1837.4	3103.4	3623.8	3825.6
30°	454.6	484.3	507.7	528.9	558.6	599.0	917.6	2300.4	3778.8	4284.4	4305.6
32.5°	431.2	458.8	486.4	507.7	535.3	582.0	1038.7	2842.1	4471.3	4959.9	4760.2
35°	405.7	437.6	463.1	486.4	516.2	567.1	1178.9	3426.2	5170.2	5580.1	5212.6
37.5°	380.2	416.3	448.2	465.2	494.9	552.3	1280.9	4035.9	5883.9	6185.5	5609.9
40°	356.9	397.2	433.3	450.3	465.2	533.2	1295.7	4660.4	6608.2	6782.4	5983.7
42.5°	331.4	376.0	407.8	431.2	443.9	520.4	1206.5	5187.2	7215.7	7377.1	6472.3
45°	303.8	356.9	382.3	399.3	424.8	528.9	1091.8	5595.0	7910.3	8188.6	7277.3
47.5°	276.1	335.6	356.9	369.6	403.6	579.9	1049.3	5866.9	9055.2	9633.0	8634.6
50°	250.6	316.5	339.9	337.7	399.3	645.7	1096.1	6072.9	10775.8	11455.5	10495.4
52.5°	223.0	295.3	322.9	314.4	431.2	696.7	1189.5	6236.5	12099.1	13592.4	12995.5
55°	199.7	271.9	297.4	295.3	490.7	735.0	1261.7	5374.1	12647.1	15578.4	15812.1
57.5°	182.7	246.4	267.6	303.8	528.9	735.0	1459.3	3815.0	12657.8	17039.9	19550.6
60°	167.8	223.0	237.9	333.5	514.0	696.7	1444.4	2336.6	11665.8	16940.0	21538.8
62.5°	155.1	201.8	220.9	342.0	454.6	690.3	1304.2	1448.7	9949.5	15650.7	20096.5
65°	144.4	184.8	212.4	314.4	412.1	739.2	879.4	1040.8	8069.6	14180.8	18441.8
67.5°	133.8	169.9	225.2	257.0	373.8	660.6	635.1	739.2	6334.2	12568.5	16923.0
70°	125.3	161.4	237.9	210.3	327.1	516.2	450.3	560.8	4849.4	10486.9	14784.0
72.5°	119.0	150.8	199.7	165.7	265.5	399.3	314.4	407.8	3169.2	8186.4	12052.4
75°	112.6	138.1	146.6	133.8	197.5	261.3	237.9	274.0	1888.4	5983.7	9144.4
77.5°	110.5	129.6	119.0	108.3	133.8	155.1	180.6	184.8	921.9	2992.9	4792.1
80°	97.7	116.8	102.0	89.2	91.3	102.0	133.8	123.2	210.3	760.4	1278.7
82.5°	76.5	91.3	85.0	74.3	74.3	74.3	89.2	82.8	68.0	342.0	577.8
85°	53.1	63.7	63.7	59.5	57.4	57.4	55.2	53.1	19.1	21.2	31.9
87.5°	36.1	44.6	46.7	44.6	38.2	34.0	29.7	25.5	8.5	0.0	4.2
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°	930.4	930.4	930.4	930.4	930.4	930.4	930.4	930.4	930.4	930.4
2.5°	985.6	992.0	992.0	983.5	977.1	960.1	943.1	926.1	921.9	919.8
5°	985.6	1011.1	1023.8	1021.7	1006.8	979.2	943.1	904.9	894.3	890.0
7.5°	970.7	1019.6	1057.8	1064.2	1036.6	987.7	921.9	864.5	849.7	843.3
10°	1004.7	1100.3	1176.8	1187.4	1155.5	1059.9	953.7	856.0	832.7	817.8
12.5°	1187.4	1344.6	1438.0	1482.6	1421.0	1300.0	1123.7	949.5	896.4	873.0
15°	1557.0	1780.0	1958.5	1958.5	1901.1	1686.6	1463.5	1181.0	1108.8	1045.1
17.5°	2030.7	2311.1	2468.3	2451.3	2364.2	2213.4	1945.7	1540.0	1393.4	1327.6
20°	2570.2	2738.0	2774.1	2763.5	2725.3	2638.2	2453.4	2017.9	1820.4	1718.4
22.5°	3037.5	2992.9	2939.8	2897.3	2886.7	2912.2	2886.7	2551.1	2396.0	2215.5
25°	3354.0	3101.2	2941.9	2865.5	2901.6	3048.1	3207.5	3082.1	2958.9	2772.0
27.5°	3526.1	3088.5	2859.1	2780.5	2842.1	3050.3	3396.5	3608.9	3481.5	3392.3
30°	3619.5	3077.9	2806.0	2729.5	2823.0	3084.3	3528.2	4101.7	4106.0	3963.6
32.5°	3753.4	3145.9	2816.6	2746.5	2871.8	3186.2	3693.9	4603.0	4726.2	4649.7
35°	3904.2	3249.9	2865.5	2801.7	2956.8	3322.2	3878.7	5108.6	5365.6	5340.1
37.5°	4046.5	3366.8	2980.2	2918.6	3086.4	3439.0	4057.1	5605.6	5962.5	6051.7
40°	4195.2	3530.3	3332.8	3392.3	3485.7	3623.8	4216.4	6036.8	6618.8	6752.6
42.5°	4545.7	4097.5	4399.1	4511.7	4524.4	4239.8	4564.8	6589.1	7264.6	7423.9
45°	5327.3	5106.4	5971.0	6130.3	6047.4	5185.0	5403.8	7385.6	8167.3	8248.0
47.5°	6315.1	6417.0	8122.7	8672.9	8175.8	6300.2	6421.3	9061.6	9819.9	9790.2
50°	7466.4	7948.5	10565.5	11863.3	10673.8	7748.9	7593.8	11122.0	12041.8	11950.4
52.5°	8827.9	9728.6	13501.0	15344.8	14219.0	9378.1	9314.4	13851.5	14412.3	14121.3
55°	10542.1	11447.0	16878.4	19455.0	17853.4	11366.3	11585.1	17016.5	17124.8	16200.8
57.5°	13099.6	13688.0	20859.1	24168.5	21647.1	14068.2	15654.9	21228.7	19932.9	18182.6
60°	17742.9	16570.4	24705.9	28990.3	25683.0	17868.3	21022.6	23724.5	20867.6	18454.5
62.5°	19359.4	19017.4	27114.7	31029.4	28397.6	20988.6	22418.2	22309.8	19656.8	17426.4
65°	16910.3	18407.8	26683.4	29952.5	28049.3	20474.6	20117.7	20748.6	18293.1	15865.2
67.5°	15620.9	16976.1	25050.0	26980.8	26118.4	18730.7	17932.0	17759.9	15357.5	13424.6
70°	14321.0	15663.4	22681.6	22921.6	22520.1	15888.6	14839.2	13685.8	11478.9	9798.7
72.5°	12757.6	13496.8	19395.5	18257.0	17802.4	12479.3	12258.4	10306.3	8604.9	7162.6
75°	11126.2	10911.7	15121.8	12530.3	12870.2	9709.4	10353.1	7568.3	6304.4	5155.3
77.5°	8093.0	7933.7	10127.9	7610.8	8428.6	6359.7	5713.9	3020.5	2876.1	2481.0
80°	4515.9	5444.2	5469.7	4265.3	5321.0	4146.3	1429.5	99.8	63.7	93.5
82.5°	2098.7	2340.8	2965.3	1977.6	3035.4	2054.0	295.3	0.0	0.0	0.0
85°	679.7	994.1	832.7	291.0	735.0	694.6	48.9	0.0	0.0	0.0
87.5°	40.4	82.8	21.2	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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