

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: P640736

Luminaire Tested: GWS-SA5E-740-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640736
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-SA5E-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22729.7 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

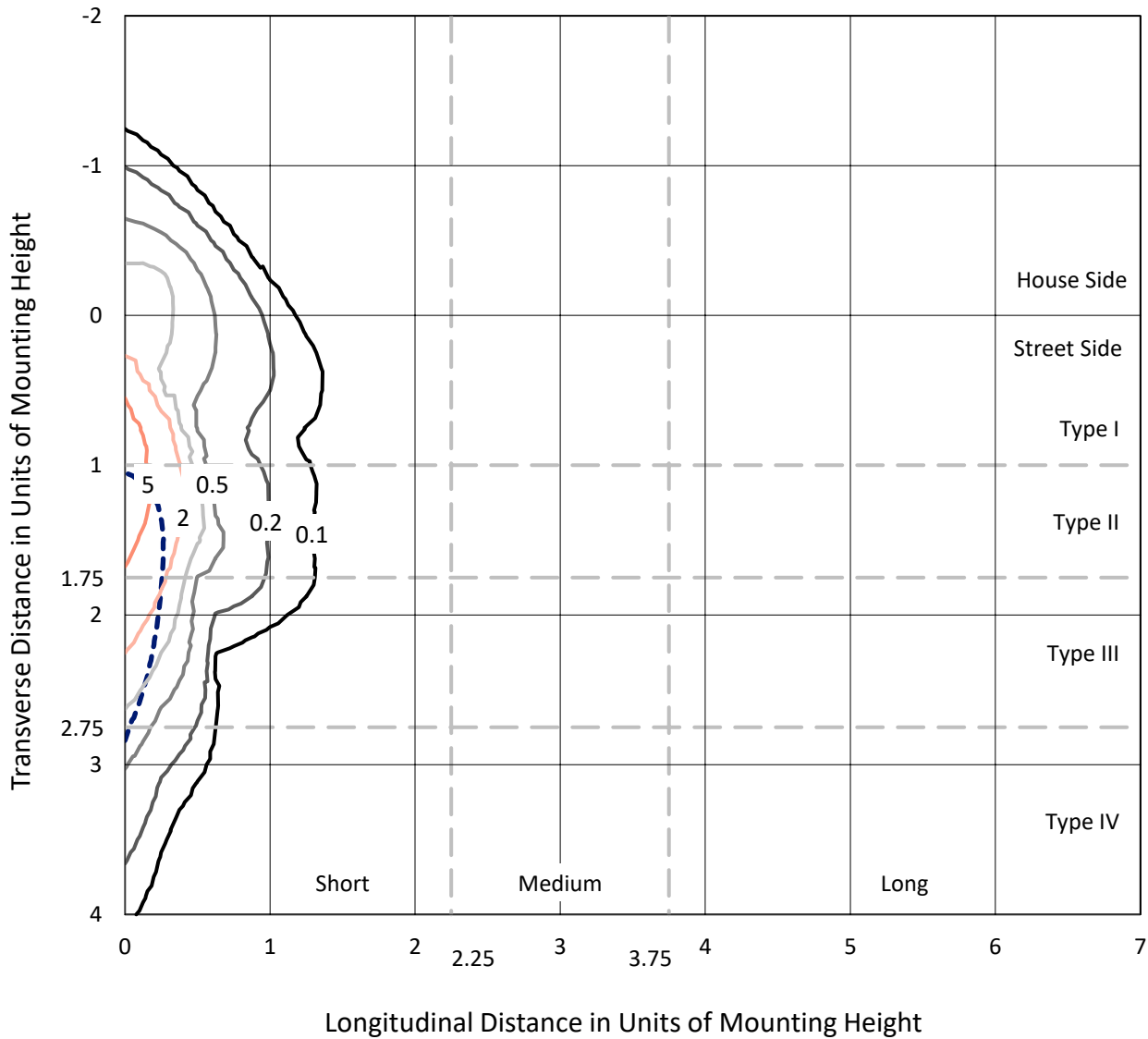
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

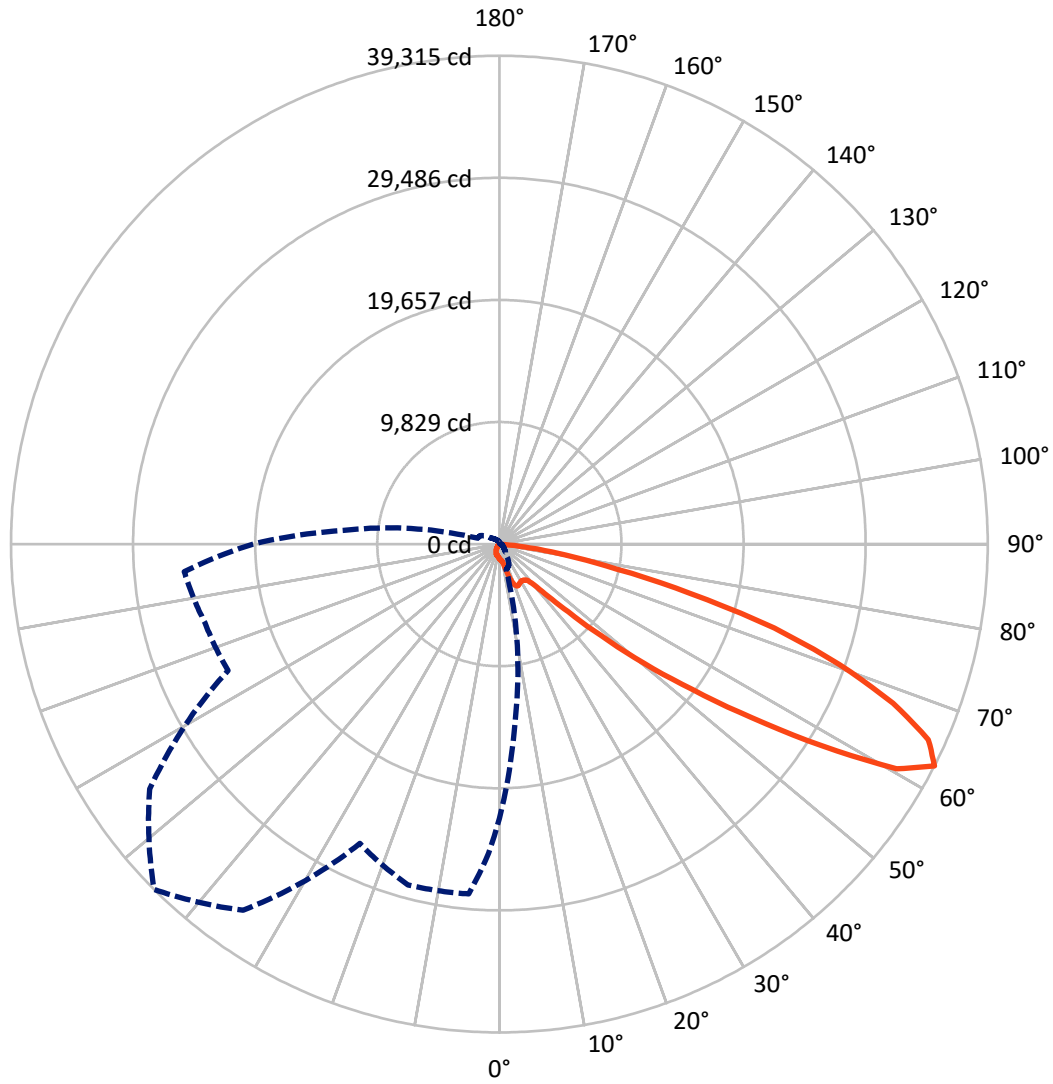
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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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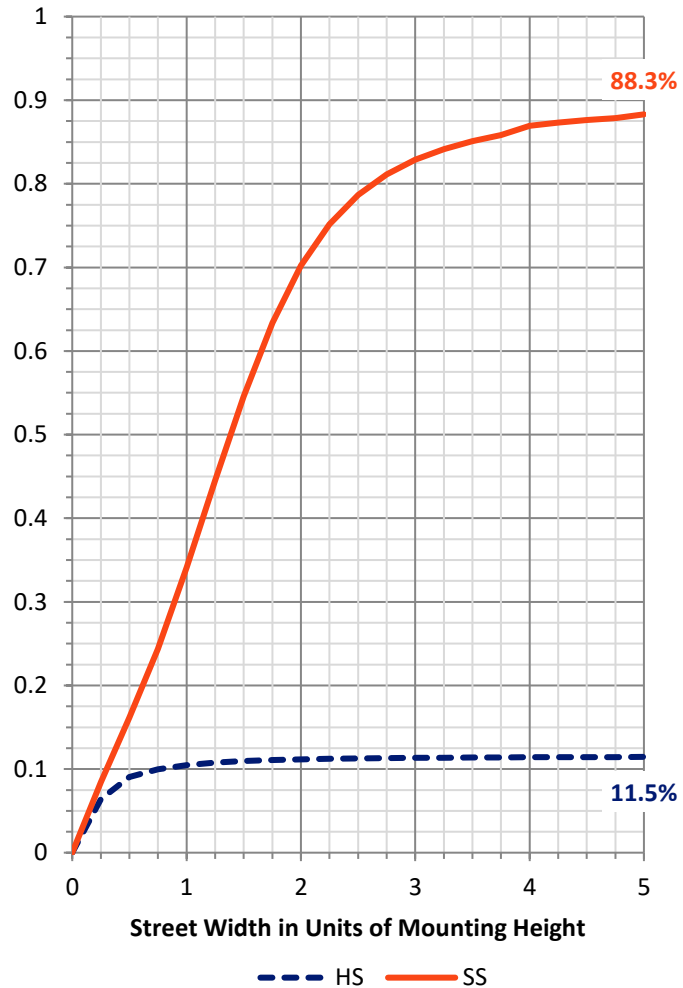
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2640.9	0.0	2640.9
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	20088.8	0.0	20088.8
	% Fixture	88.4	0.0	88.4
Total	Lumens	22729.7	0.0	22729.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.8	0.4
10°-20°	348.9	1.5
20°-30°	788.2	3.5
30°-40°	1357.9	6.0
40°-50°	2561.4	11.3
50°-60°	5719.0	25.2
60°-70°	7649.1	33.7
70°-80°	3835.8	16.9
80°-90°	367.7	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°	22729.7	100.0
0°-180°	22729.7	100.0

Coefficient of Utilization

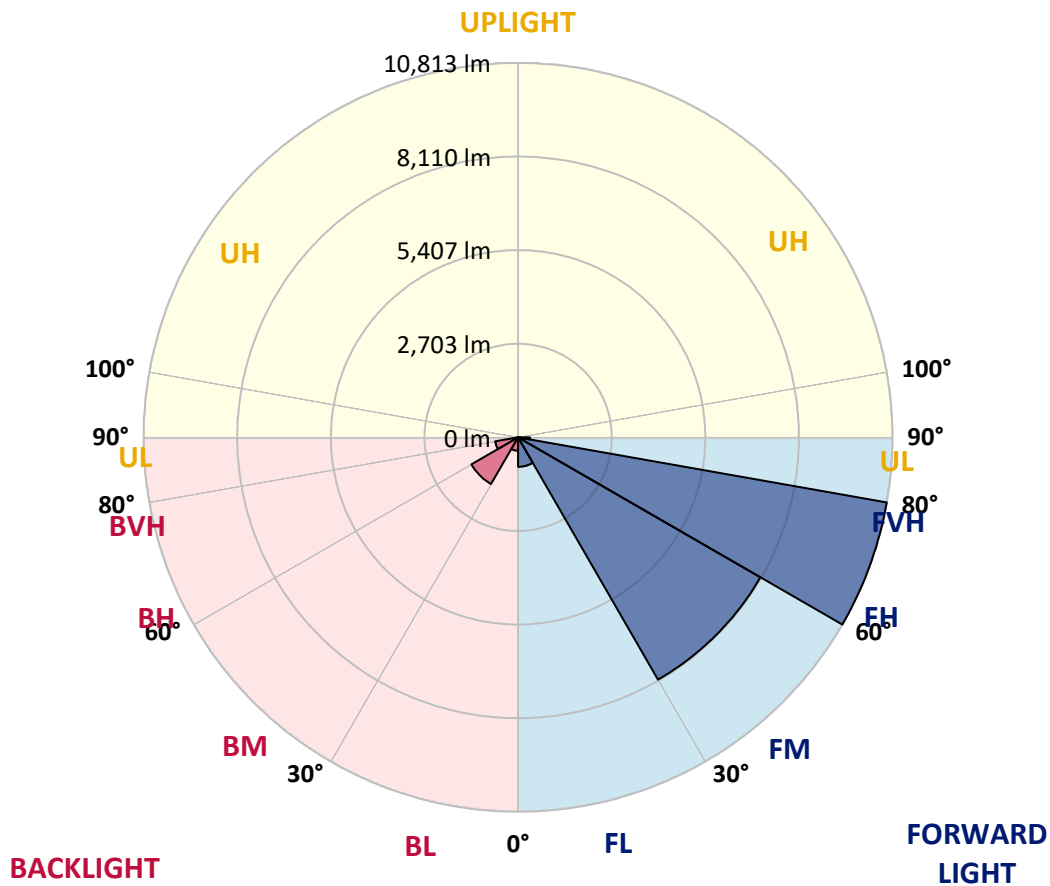


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	851.3	3.7			
FM (30°-60°)	8081.1	35.6			
FH (60°-80°)	10813.3	47.6			G4/12000
FVH (80°-90°)	343.2	1.5			G3/500
BL (0°-30°)	387.6	1.7	B1/500		
BM (30°-60°)	1557.2	6.9	B2/2500		
BH (60°-80°)	671.6	3.0	B2/1000		G2/1000
BVH (80°-90°)	24.5	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°	1178.8	1178.8	1178.8	1178.8	1178.8	1178.8	1178.8	1178.8	1178.8	1178.8	1178.8
2.5°	1165.3	1162.6	1157.3	1141.1	1127.7	1119.6	1103.4	1103.4	1100.7	1095.4	1084.6
5°	1127.7	1116.9	1106.1	1076.5	1044.2	1025.4	1003.9	1001.2	1001.2	995.8	993.1
7.5°	1068.5	1057.7	1044.2	995.8	966.2	947.3	928.5	925.8	917.7	917.7	917.7
10°	1036.2	1020.0	998.5	944.7	915.0	898.9	885.4	877.4	872.0	863.9	861.2
12.5°	1106.1	1076.5	1030.8	933.9	893.5	872.0	855.8	850.5	834.3	823.5	815.5
15°	1324.1	1251.5	1160.0	958.1	885.4	853.1	831.6	820.9	807.4	788.6	775.1
17.5°	1682.1	1577.1	1423.7	1036.2	877.4	837.0	810.1	791.2	772.4	750.9	734.7
20°	2177.3	2021.2	1838.2	1178.8	877.4	818.2	785.9	761.6	734.7	710.5	691.7
22.5°	2807.0	2650.9	2338.8	1421.0	888.1	793.9	756.3	724.0	691.7	670.1	648.6
25°	3512.2	3291.5	3000.8	1714.4	917.7	761.6	721.3	689.0	659.4	632.5	608.2
27.5°	4298.0	4058.5	3671.0	2131.5	982.3	729.3	683.6	654.0	627.1	600.2	567.9
30°	5022.0	4879.3	4483.7	2632.1	1087.3	707.8	654.0	627.1	600.2	565.2	535.6
32.5°	5891.3	5638.3	5312.7	3202.7	1227.2	686.3	629.8	592.1	570.6	538.3	506.0
35°	6766.0	6550.7	6122.7	3905.1	1383.3	664.8	600.2	565.2	546.3	508.7	473.7
37.5°	7667.5	7619.1	7196.6	4682.9	1536.7	640.5	565.2	543.6	524.8	481.7	441.4
40°	8555.7	8466.9	8076.6	5571.0	1630.9	613.6	535.6	522.1	500.6	452.1	406.4
42.5°	9406.1	9338.9	8959.4	6421.5	1617.5	589.4	506.0	489.8	473.7	425.2	368.7
45°	10450.4	10340.0	9861.0	7051.2	1480.2	616.3	476.4	449.4	446.8	401.0	331.0
47.5°	12404.3	12040.9	11228.2	7535.7	1343.0	686.3	444.1	411.8	430.6	376.8	293.4
50°	15141.3	14713.4	13537.3	7912.5	1340.3	777.8	438.7	376.8	417.2	357.9	261.1
52.5°	17891.8	17138.3	15709.2	8114.3	1439.9	845.1	487.1	341.8	401.0	339.1	236.8
55°	20526.6	18963.0	16618.9	7446.9	1517.9	917.7	575.9	323.0	371.4	317.6	223.4
57.5°	23037.6	20429.8	17014.5	5891.3	1779.0	947.3	629.8	331.0	328.3	290.7	212.6
60°	23382.1	20359.8	16215.2	3426.0	1962.0	896.2	608.2	368.7	288.0	258.4	193.8
62.5°	22079.5	19006.0	14393.1	2136.9	1822.0	877.4	541.0	419.8	261.1	228.8	169.6
65°	20101.4	16882.6	12000.6	1378.0	1380.6	974.3	473.7	411.8	244.9	201.8	145.3
67.5°	17009.1	14129.4	9454.6	923.1	780.5	831.6	414.5	282.6	239.5	172.2	113.0
70°	12415.0	10057.4	6155.0	616.3	465.6	664.8	347.2	201.8	226.1	142.6	80.7
72.5°	9075.1	6757.9	3436.8	403.7	263.7	387.5	255.7	145.3	174.9	105.0	56.5
75°	6531.8	4650.6	1962.0	258.4	174.9	212.6	166.9	99.6	113.0	83.4	51.1
77.5°	3143.5	2266.1	890.8	142.6	118.4	107.7	88.8	61.9	70.0	75.4	45.8
80°	118.4	88.8	67.3	70.0	75.4	48.4	40.4	32.3	40.4	51.1	24.2
82.5°	0.0	0.0	0.0	8.1	10.8	13.5	16.1	13.5	16.1	18.8	2.7
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°	1178.8	1178.8	1178.8	1178.8	1178.8	1178.8	1178.8	1178.8	1178.8	1178.8	1178.8
2.5°	1092.7	1087.3	1092.7	1098.1	1103.4	1108.8	1100.7	1106.1	1111.5	1098.1	1103.4
5°	1006.6	1003.9	1020.0	1028.1	1038.8	1044.2	1038.8	1038.8	1036.2	1020.0	1020.0
7.5°	931.2	933.9	947.3	966.2	979.6	987.7	982.3	979.6	971.6	947.3	947.3
10°	874.7	874.7	896.2	912.4	931.2	939.3	933.9	925.8	917.7	893.5	890.8
12.5°	828.9	828.9	845.1	872.0	893.5	904.3	901.6	890.8	877.4	853.1	850.5
15°	785.9	783.2	807.4	831.6	861.2	874.7	869.3	861.2	837.0	815.5	810.1
17.5°	742.8	740.1	761.6	793.9	826.2	845.1	842.4	823.5	802.0	775.1	769.7
20°	699.7	694.4	721.3	753.6	785.9	804.7	799.3	783.2	756.3	729.3	724.0
22.5°	656.7	654.0	672.8	699.7	729.3	745.5	742.8	729.3	702.4	678.2	678.2
25°	608.2	608.2	621.7	640.5	662.1	670.1	672.8	667.4	651.3	637.8	637.8
27.5°	567.9	559.8	565.2	570.6	581.3	594.8	594.8	600.2	602.9	597.5	600.2
30°	535.6	522.1	514.0	503.3	497.9	503.3	508.7	527.5	546.3	557.1	562.5
32.5°	497.9	481.7	460.2	430.6	411.8	406.4	422.5	457.5	492.5	516.7	530.2
35°	460.2	438.7	398.3	355.3	331.0	323.0	341.8	382.2	433.3	476.4	495.2
37.5°	422.5	392.9	336.4	285.3	258.4	253.0	271.8	314.9	374.1	433.3	457.5
40°	379.5	344.5	277.2	223.4	201.8	196.5	212.6	255.7	317.6	384.9	422.5
42.5°	336.4	293.4	223.4	177.6	156.1	156.1	177.6	209.9	266.4	339.1	384.9
45°	293.4	247.6	183.0	142.6	129.2	131.9	145.3	177.6	223.4	298.7	341.8
47.5°	253.0	212.6	150.7	118.4	107.7	110.3	126.5	153.4	191.1	258.4	304.1
50°	218.0	180.3	131.9	99.6	91.5	96.9	113.0	137.3	169.6	228.8	266.4
52.5°	196.5	161.5	121.1	86.1	80.7	86.1	102.3	123.8	153.4	201.8	239.5
55°	185.7	158.8	121.1	78.0	70.0	75.4	91.5	113.0	137.3	183.0	215.3
57.5°	183.0	164.2	129.2	70.0	59.2	64.6	80.7	102.3	126.5	166.9	193.8
60°	172.2	156.1	126.5	56.5	45.8	53.8	67.3	88.8	115.7	156.1	180.3
62.5°	150.7	137.3	110.3	45.8	35.0	40.4	56.5	78.0	105.0	142.6	169.6
65°	123.8	110.3	86.1	29.6	21.5	26.9	43.1	67.3	91.5	129.2	153.4
67.5°	91.5	78.0	59.2	18.8	10.8	18.8	35.0	56.5	83.4	115.7	139.9
70°	56.5	45.8	32.3	10.8	8.1	16.1	32.3	53.8	75.4	107.7	131.9
72.5°	32.3	21.5	13.5	5.4	8.1	16.1	32.3	53.8	72.7	102.3	123.8
75°	24.2	13.5	5.4	2.7	5.4	13.5	29.6	48.4	70.0	96.9	118.4
77.5°	16.1	8.1	2.7	0.0	2.7	10.8	26.9	45.8	64.6	91.5	113.0
80°	2.7	0.0	0.0	0.0	0.0	8.1	24.2	40.4	59.2	80.7	99.6
82.5°	0.0	0.0	0.0	0.0	0.0	2.7	18.8	35.0	51.1	67.3	80.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	10.8	26.9	40.4	51.1	56.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.5	26.9	32.3	37.7
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°	1178.8	1178.8	1178.8	1178.8	1178.8	1178.8	1178.8	1178.8	1178.8	1178.8	1178.8
2.5°	1100.7	1116.9	1116.9	1127.7	1141.1	1165.3	1178.8	1197.6	1211.1	1224.5	1229.9
5°	1017.3	1020.0	1022.7	1028.1	1044.2	1071.1	1095.4	1125.0	1160.0	1186.9	1203.0
7.5°	947.3	947.3	947.3	955.4	971.6	990.4	1014.6	1055.0	1095.4	1127.7	1154.6
10°	888.1	896.2	898.9	912.4	931.2	955.4	982.3	1017.3	1063.1	1106.1	1154.6
12.5°	850.5	858.5	872.0	885.4	904.3	931.2	960.8	1006.6	1100.7	1189.6	1291.8
15°	815.5	826.2	842.4	861.2	882.8	912.4	944.7	1038.8	1259.5	1426.4	1587.9
17.5°	777.8	793.9	815.5	834.3	861.2	893.5	933.9	1116.9	1550.2	1827.4	2101.9
20°	729.3	750.9	775.1	804.7	837.0	874.7	933.9	1278.4	1970.0	2368.4	2731.7
22.5°	683.6	705.1	734.7	772.4	810.1	847.8	947.3	1523.3	2511.0	3014.3	3474.5
25°	645.9	672.8	702.4	734.7	777.8	820.9	979.6	1867.8	3162.3	3810.9	4136.5
27.5°	610.9	643.2	672.8	699.7	737.4	785.9	1052.3	2328.0	3932.0	4591.4	4847.1
30°	575.9	613.6	643.2	670.1	707.8	759.0	1162.6	2914.7	4787.8	5428.4	5455.3
32.5°	546.3	581.3	616.3	643.2	678.2	737.4	1316.1	3601.0	5665.2	6284.2	6031.2
35°	514.0	554.4	586.7	616.3	654.0	718.6	1493.7	4341.1	6550.7	7070.1	6604.5
37.5°	481.7	527.5	567.9	589.4	627.1	699.7	1622.9	5113.5	7454.9	7837.1	7107.8
40°	452.1	503.3	549.0	570.6	589.4	675.5	1641.7	5904.7	8372.7	8593.4	7581.4
42.5°	419.8	476.4	516.7	546.3	562.5	659.4	1528.7	6572.2	9142.4	9346.9	8200.4
45°	384.9	452.1	484.4	506.0	538.3	670.1	1383.3	7088.9	10022.4	10375.0	9220.4
47.5°	349.9	425.2	452.1	468.3	511.3	734.7	1329.5	7433.4	11473.1	12205.1	10940.2
50°	317.6	401.0	430.6	427.9	506.0	818.2	1388.7	7694.5	13653.0	14514.2	13297.8
52.5°	282.6	374.1	409.1	398.3	546.3	882.8	1507.1	7901.7	15329.7	17221.7	16465.5
55°	253.0	344.5	376.8	374.1	621.7	931.2	1598.6	6809.0	16024.1	19738.1	20034.1
57.5°	231.5	312.2	339.1	384.9	670.1	931.2	1848.9	4833.6	16037.5	21589.7	24770.8
60°	212.6	282.6	301.4	422.5	651.3	882.8	1830.1	2960.4	14780.7	21463.2	27289.9
62.5°	196.5	255.7	279.9	433.3	575.9	874.7	1652.5	1835.5	12606.1	19829.6	25462.5
65°	183.0	234.1	269.1	398.3	522.1	936.6	1114.2	1318.7	10224.3	17967.2	23366.0
67.5°	169.6	215.3	285.3	325.6	473.7	837.0	804.7	936.6	8025.5	15924.5	21441.7
70°	158.8	204.5	301.4	266.4	414.5	654.0	570.6	710.5	6144.3	13287.0	18731.5
72.5°	150.7	191.1	253.0	209.9	336.4	506.0	398.3	516.7	4015.4	10372.3	15270.5
75°	142.6	174.9	185.7	169.6	250.3	331.0	301.4	347.2	2392.6	7581.4	11586.1
77.5°	139.9	164.2	150.7	137.3	169.6	196.5	228.8	234.1	1168.0	3792.1	6071.6
80°	123.8	148.0	129.2	113.0	115.7	129.2	169.6	156.1	266.4	963.5	1620.2
82.5°	96.9	115.7	107.7	94.2	94.2	94.2	113.0	105.0	86.1	433.3	732.0
85°	67.3	80.7	80.7	75.4	72.7	72.7	70.0	67.3	24.2	26.9	40.4
87.5°	45.8	56.5	59.2	56.5	48.4	43.1	37.7	32.3	10.8	0.0	5.4
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°	358°	360°
0°	1178.8	1178.8	1178.8	1178.8	1178.8	1178.8	1178.8	1178.8	1178.8	1178.8
2.5°	1248.8	1256.8	1256.8	1246.1	1238.0	1216.5	1194.9	1173.4	1168.0	1165.3
5°	1248.8	1281.1	1297.2	1294.5	1275.7	1240.7	1194.9	1146.5	1133.0	1127.7
7.5°	1229.9	1291.8	1340.3	1348.3	1313.4	1251.5	1168.0	1095.4	1076.5	1068.5
10°	1273.0	1394.1	1491.0	1504.4	1464.1	1343.0	1208.4	1084.6	1055.0	1036.2
12.5°	1504.4	1703.6	1822.0	1878.5	1800.5	1647.1	1423.7	1203.0	1135.7	1106.1
15°	1972.7	2255.3	2481.4	2481.4	2408.7	2136.9	1854.3	1496.4	1404.9	1324.1
17.5°	2572.9	2928.1	3127.3	3105.8	2995.4	2804.3	2465.2	1951.2	1765.5	1682.1
20°	3256.5	3469.1	3514.9	3501.4	3453.0	3342.6	3108.5	2556.7	2306.5	2177.3
22.5°	3848.6	3792.1	3724.8	3671.0	3657.5	3689.8	3657.5	3232.3	3035.8	2807.0
25°	4249.6	3929.3	3727.5	3630.6	3676.3	3862.0	4063.9	3905.1	3749.0	3512.2
27.5°	4467.6	3913.2	3622.5	3522.9	3601.0	3864.7	4303.4	4572.5	4411.1	4298.0
30°	4586.0	3899.7	3555.2	3458.3	3576.8	3907.8	4470.3	5196.9	5202.3	5022.0
32.5°	4755.5	3985.8	3568.7	3479.9	3638.7	4037.0	4680.2	5832.1	5988.2	5891.3
35°	4946.6	4117.7	3630.6	3549.8	3746.3	4209.2	4914.3	6472.6	6798.3	6766.0
37.5°	5127.0	4265.7	3775.9	3697.9	3910.5	4357.2	5140.4	7102.4	7554.5	7667.5
40°	5315.3	4473.0	4222.7	4298.0	4416.4	4591.4	5342.3	7648.7	8386.1	8555.7
42.5°	5759.4	5191.5	5573.7	5716.3	5732.5	5371.9	5783.6	8348.5	9204.3	9406.1
45°	6749.8	6469.9	7565.3	7767.1	7662.2	6569.5	6846.7	9357.7	10348.1	10450.4
47.5°	8001.3	8130.5	10291.6	10988.6	10358.9	7982.4	8135.8	11481.1	12441.9	12404.3
50°	9460.0	10070.9	13386.6	15031.0	13523.8	9817.9	9621.4	14091.7	15257.1	15141.3
52.5°	11185.1	12326.2	17106.0	19442.0	18015.6	11882.1	11801.4	17550.0	18260.6	17891.8
55°	13357.0	14503.5	21385.2	24649.7	22620.5	14401.2	14678.4	21560.1	21697.4	20526.6
57.5°	16597.3	17342.8	26428.7	30621.8	27427.2	17824.6	19835.0	26897.0	25255.3	23037.6
60°	22480.5	20994.9	31302.7	36731.0	32540.7	22639.3	26635.9	30059.3	26439.5	23382.1
62.5°	24528.6	24095.3	34354.6	39314.7	35980.2	26592.9	28404.1	28266.9	24905.4	22079.5
65°	21425.5	23322.9	33808.3	37950.2	35538.8	25941.6	25489.4	26288.7	23177.6	20101.4
67.5°	19791.9	21509.0	31738.6	34185.1	33092.4	23732.0	22720.1	22502.1	19458.2	17009.1
70°	18144.8	19845.7	28737.8	29042.0	28533.3	20131.0	18801.5	17340.1	14543.9	12415.0
72.5°	16164.0	17100.6	24574.4	23131.8	22555.9	15811.5	15531.6	13058.2	10902.5	9075.1
75°	14097.1	13825.3	19159.5	15876.1	16306.7	12302.0	13117.5	9589.1	7987.8	6531.8
77.5°	10253.9	10052.1	12832.2	9643.0	10679.1	8057.8	7239.6	3827.0	3644.0	3143.5
80°	5721.7	6897.8	6930.1	5404.2	6741.7	5253.4	1811.3	126.5	80.7	118.4
82.5°	2659.0	2965.8	3757.1	2505.6	3845.9	2602.5	374.1	0.0	0.0	0.0
85°	861.2	1259.5	1055.0	368.7	931.2	880.1	61.9	0.0	0.0	0.0
87.5°	51.1	105.0	26.9	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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