

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: P641341

Luminaire Tested: GWS-SA5F-760-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641341
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-SA5F-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25496.1 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

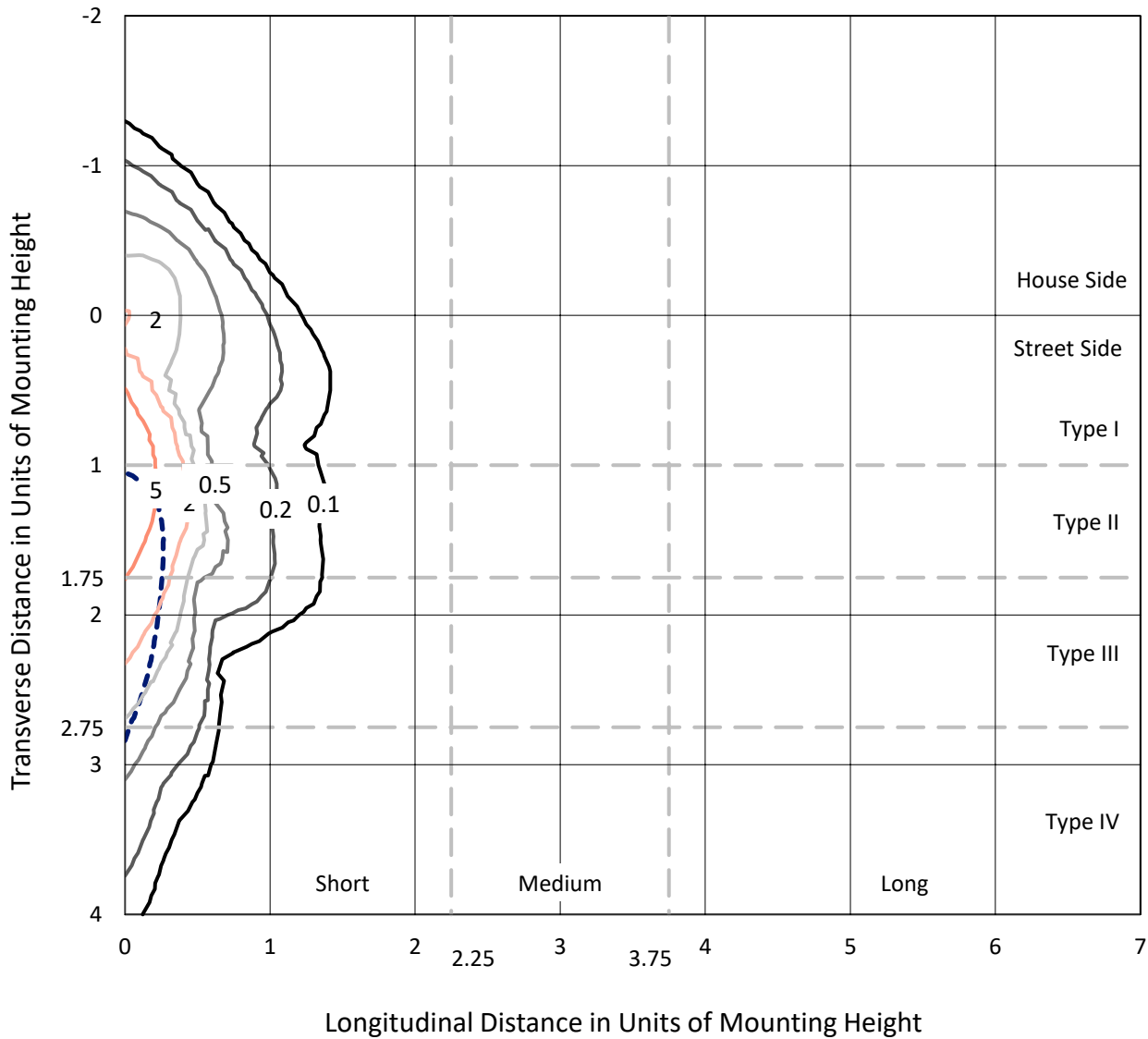
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

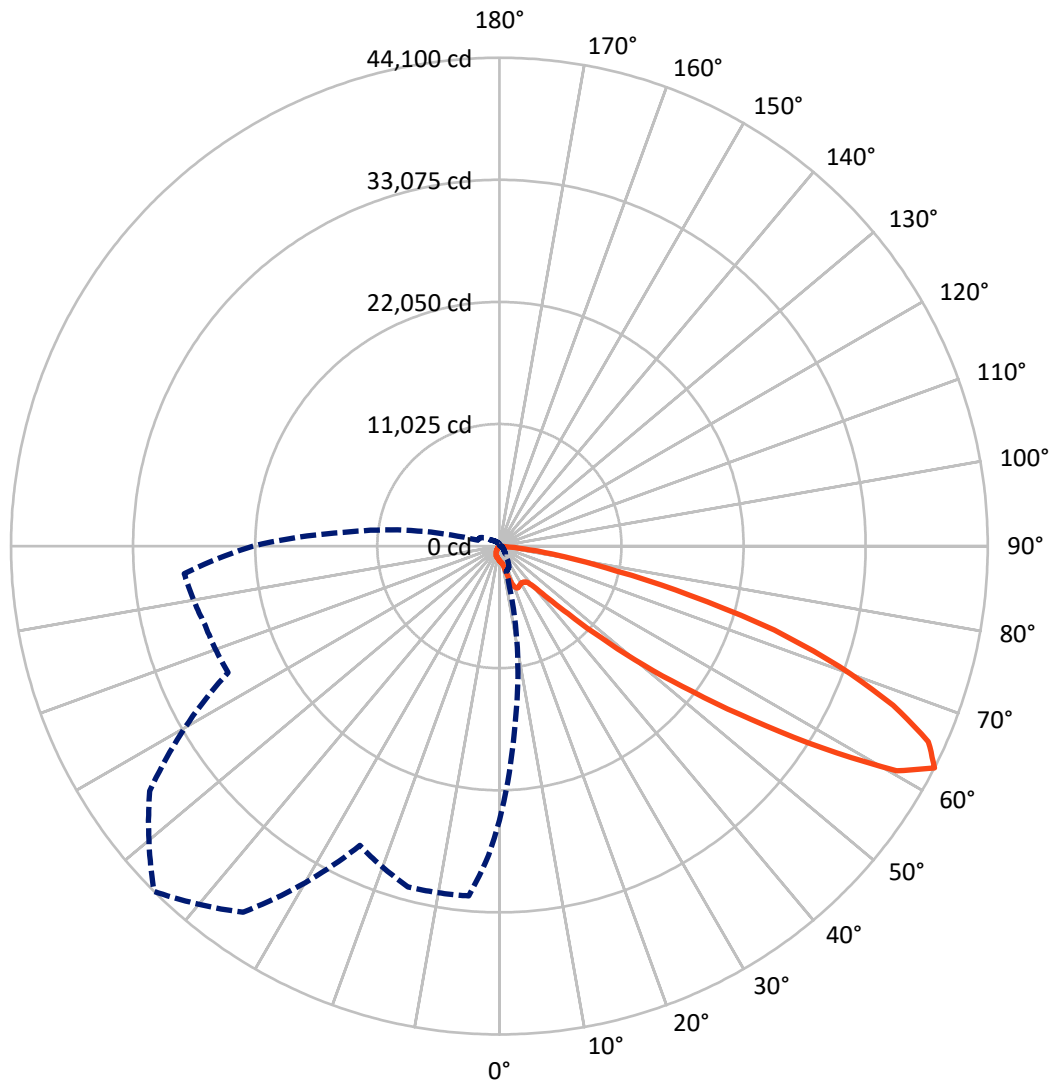
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	2962.3	0.0	2962.3
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	22533.8	0.0	22533.8
	% Fixture	88.4	0.0	88.4
Total	Lumens	25496.1	0.0	25496.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.2	0.4
10°-20°	391.4	1.5
20°-30°	884.1	3.5
30°-40°	1523.1	6.0
40°-50°	2873.2	11.3
50°-60°	6415.0	25.2
60°-70°	8580.0	33.7
70°-80°	4302.6	16.9
80°-90°	412.4	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°	25496.1	100.0
0°-180°	25496.1	100.0

Coefficient of Utilization



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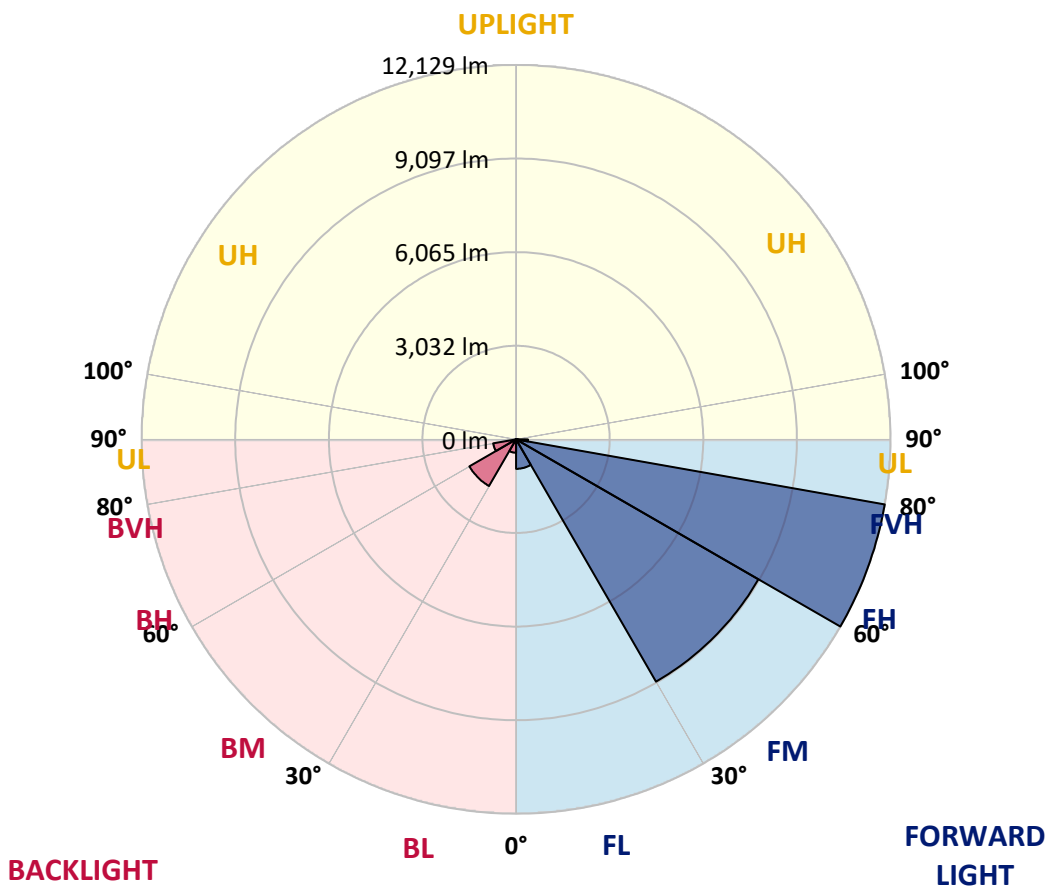
CATALOG NUMBER: GWS-SA5F-760-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	954.9	3.7			
FM (30°-60°)	9064.6	35.6			
FH (60°-80°)	12129.3	47.6			G5
FVH (80°-90°)	385.0	1.5			G3/500
BL (0°-30°)	434.8	1.7	B1/500		
BM (30°-60°)	1746.8	6.9	B2/2500		
BH (60°-80°)	753.3	3.0	B2/1000		G2/1000
BVH (80°-90°)	27.4	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-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3
2.5°	1307.2	1304.2	1298.1	1280.0	1264.9	1255.8	1237.7	1237.7	1234.7	1228.7	1216.6
5°	1264.9	1252.8	1240.8	1207.5	1171.3	1150.2	1126.0	1123.0	1123.0	1117.0	1114.0
7.5°	1198.5	1186.4	1171.3	1117.0	1083.8	1062.6	1041.5	1038.5	1029.4	1029.4	1029.4
10°	1162.3	1144.2	1120.0	1059.6	1026.4	1008.3	993.2	984.2	978.1	969.1	966.0
12.5°	1240.8	1207.5	1156.2	1047.5	1002.3	978.1	960.0	954.0	935.8	923.8	914.7
15°	1485.3	1403.8	1301.1	1074.7	993.2	957.0	932.8	920.8	905.7	884.5	869.4
17.5°	1886.8	1769.1	1597.0	1162.3	984.2	938.9	908.7	887.5	866.4	842.3	824.2
20°	2442.3	2267.2	2061.9	1322.3	984.2	917.7	881.5	854.3	824.2	797.0	775.8
22.5°	3148.7	2973.6	2623.4	1594.0	996.2	890.6	848.3	812.1	775.8	751.7	727.5
25°	3939.6	3692.1	3366.0	1923.0	1029.4	854.3	809.1	772.8	739.6	709.4	682.3
27.5°	4821.1	4552.5	4117.7	2390.9	1101.9	818.1	766.8	733.6	703.4	673.2	637.0
30°	5633.2	5473.2	5029.4	2952.5	1219.6	794.0	733.6	703.4	673.2	634.0	600.8
32.5°	6608.3	6324.5	5959.2	3592.5	1376.6	769.8	706.4	664.2	640.0	603.8	567.5
35°	7589.4	7347.9	6867.9	4380.4	1551.7	745.7	673.2	634.0	612.8	570.6	531.3
37.5°	8600.8	8546.4	8072.5	5252.8	1723.8	718.5	634.0	609.8	588.7	540.4	495.1
40°	9597.0	9497.4	9059.6	6249.1	1829.4	688.3	600.8	585.7	561.5	507.2	455.8
42.5°	10550.9	10475.5	10049.8	7203.0	1814.3	661.1	567.5	549.4	531.3	477.0	413.6
45°	11722.3	11598.5	11061.1	7909.4	1660.4	691.3	534.3	504.2	501.1	449.8	371.3
47.5°	13914.0	13506.4	12594.7	8452.8	1506.4	769.8	498.1	461.9	483.0	422.6	329.1
50°	16984.2	16504.2	15184.9	8875.5	1503.4	872.5	492.1	422.6	467.9	401.5	292.8
52.5°	20069.4	19224.2	17621.1	9101.9	1615.1	947.9	546.4	383.4	449.8	380.4	265.7
55°	23024.9	21270.9	18641.5	8353.2	1702.6	1029.4	646.0	362.3	416.6	356.2	250.6
57.5°	25841.5	22916.2	19085.3	6608.3	1995.5	1062.6	706.4	371.3	368.3	326.0	238.5
60°	26227.9	22837.7	18188.7	3843.0	2200.8	1005.3	682.3	413.6	323.0	289.8	217.4
62.5°	24766.8	21319.2	16144.9	2397.0	2043.8	984.2	606.8	470.9	292.8	256.6	190.2
65°	22547.9	18937.4	13461.1	1545.7	1548.7	1092.8	531.3	461.9	274.7	226.4	163.0
67.5°	19079.2	15849.1	10605.3	1035.5	875.5	932.8	464.9	317.0	268.7	193.2	126.8
70°	13926.0	11281.5	6904.2	691.3	522.3	745.7	389.4	226.4	253.6	160.0	90.6
72.5°	10179.6	7580.4	3855.1	452.8	295.8	434.7	286.8	163.0	196.2	117.7	63.4
75°	7326.8	5216.6	2200.8	289.8	196.2	238.5	187.2	111.7	126.8	93.6	57.4
77.5°	3526.0	2541.9	999.2	160.0	132.8	120.8	99.6	69.4	78.5	84.5	51.3
80°	132.8	99.6	75.5	78.5	84.5	54.3	45.3	36.2	45.3	57.4	27.2
82.5°	0.0	0.0	0.0	9.1	12.1	15.1	18.1	15.1	18.1	21.1	3.0
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°	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3
2.5°	1225.7	1219.6	1225.7	1231.7	1237.7	1243.8	1234.7	1240.8	1246.8	1231.7	1237.7
5°	1129.1	1126.0	1144.2	1153.2	1165.3	1171.3	1165.3	1165.3	1162.3	1144.2	1144.2
7.5°	1044.5	1047.5	1062.6	1083.8	1098.9	1107.9	1101.9	1098.9	1089.8	1062.6	1062.6
10°	981.1	981.1	1005.3	1023.4	1044.5	1053.6	1047.5	1038.5	1029.4	1002.3	999.2
12.5°	929.8	929.8	947.9	978.1	1002.3	1014.3	1011.3	999.2	984.2	957.0	954.0
15°	881.5	878.5	905.7	932.8	966.0	981.1	975.1	966.0	938.9	914.7	908.7
17.5°	833.2	830.2	854.3	890.6	926.8	947.9	944.9	923.8	899.6	869.4	863.4
20°	784.9	778.9	809.1	845.3	881.5	902.6	896.6	878.5	848.3	818.1	812.1
22.5°	736.6	733.6	754.7	784.9	818.1	836.2	833.2	818.1	787.9	760.8	760.8
25°	682.3	682.3	697.4	718.5	742.6	751.7	754.7	748.7	730.6	715.5	715.5
27.5°	637.0	627.9	634.0	640.0	652.1	667.2	667.2	673.2	676.2	670.2	673.2
30°	600.8	585.7	576.6	564.5	558.5	564.5	570.6	591.7	612.8	624.9	630.9
32.5°	558.5	540.4	516.2	483.0	461.9	455.8	474.0	513.2	552.5	579.6	594.7
35°	516.2	492.1	446.8	398.5	371.3	362.3	383.4	428.7	486.0	534.3	555.5
37.5°	474.0	440.8	377.4	320.0	289.8	283.8	304.9	353.2	419.6	486.0	513.2
40°	425.7	386.4	310.9	250.6	226.4	220.4	238.5	286.8	356.2	431.7	474.0
42.5°	377.4	329.1	250.6	199.2	175.1	175.1	199.2	235.5	298.9	380.4	431.7
45°	329.1	277.7	205.3	160.0	144.9	147.9	163.0	199.2	250.6	335.1	383.4
47.5°	283.8	238.5	169.1	132.8	120.8	123.8	141.9	172.1	214.3	289.8	341.1
50°	244.5	202.3	147.9	111.7	102.6	108.7	126.8	154.0	190.2	256.6	298.9
52.5°	220.4	181.1	135.8	96.6	90.6	96.6	114.7	138.9	172.1	226.4	268.7
55°	208.3	178.1	135.8	87.5	78.5	84.5	102.6	126.8	154.0	205.3	241.5
57.5°	205.3	184.2	144.9	78.5	66.4	72.5	90.6	114.7	141.9	187.2	217.4
60°	193.2	175.1	141.9	63.4	51.3	60.4	75.5	99.6	129.8	175.1	202.3
62.5°	169.1	154.0	123.8	51.3	39.2	45.3	63.4	87.5	117.7	160.0	190.2
65°	138.9	123.8	96.6	33.2	24.2	30.2	48.3	75.5	102.6	144.9	172.1
67.5°	102.6	87.5	66.4	21.1	12.1	21.1	39.2	63.4	93.6	129.8	157.0
70°	63.4	51.3	36.2	12.1	9.1	18.1	36.2	60.4	84.5	120.8	147.9
72.5°	36.2	24.2	15.1	6.0	9.1	18.1	36.2	60.4	81.5	114.7	138.9
75°	27.2	15.1	6.0	3.0	6.0	15.1	33.2	54.3	78.5	108.7	132.8
77.5°	18.1	9.1	3.0	0.0	3.0	12.1	30.2	51.3	72.5	102.6	126.8
80°	3.0	0.0	0.0	0.0	0.0	9.1	27.2	45.3	66.4	90.6	111.7
82.5°	0.0	0.0	0.0	0.0	0.0	3.0	21.1	39.2	57.4	75.5	90.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	12.1	30.2	45.3	57.4	63.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.1	30.2	36.2	42.3
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°	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3
2.5°	1234.7	1252.8	1252.8	1264.9	1280.0	1307.2	1322.3	1343.4	1358.5	1373.6	1379.6
5°	1141.1	1144.2	1147.2	1153.2	1171.3	1201.5	1228.7	1261.9	1301.1	1331.3	1349.4
7.5°	1062.6	1062.6	1062.6	1071.7	1089.8	1110.9	1138.1	1183.4	1228.7	1264.9	1295.1
10°	996.2	1005.3	1008.3	1023.4	1044.5	1071.7	1101.9	1141.1	1192.5	1240.8	1295.1
12.5°	954.0	963.0	978.1	993.2	1014.3	1044.5	1077.7	1129.1	1234.7	1334.3	1449.1
15°	914.7	926.8	944.9	966.0	990.2	1023.4	1059.6	1165.3	1412.8	1600.0	1781.1
17.5°	872.5	890.6	914.7	935.8	966.0	1002.3	1047.5	1252.8	1738.9	2049.8	2357.7
20°	818.1	842.3	869.4	902.6	938.9	981.1	1047.5	1434.0	2209.8	2656.6	3064.2
22.5°	766.8	790.9	824.2	866.4	908.7	950.9	1062.6	1708.7	2816.6	3381.1	3897.4
25°	724.5	754.7	787.9	824.2	872.5	920.8	1098.9	2095.1	3547.2	4274.7	4640.0
27.5°	685.3	721.5	754.7	784.9	827.2	881.5	1180.4	2611.3	4410.6	5150.2	5437.0
30°	646.0	688.3	721.5	751.7	794.0	851.3	1304.2	3269.4	5370.6	6089.1	6119.2
32.5°	612.8	652.1	691.3	721.5	760.8	827.2	1476.2	4039.2	6354.7	7049.1	6765.3
35°	576.6	621.9	658.1	691.3	733.6	806.0	1675.5	4869.4	7347.9	7930.6	7408.3
37.5°	540.4	591.7	637.0	661.1	703.4	784.9	1820.4	5735.9	8362.3	8790.9	7972.8
40°	507.2	564.5	615.8	640.0	661.1	757.7	1841.5	6623.4	9391.7	9639.2	8504.2
42.5°	470.9	534.3	579.6	612.8	630.9	739.6	1714.7	7372.1	10255.1	10484.5	9198.5
45°	431.7	507.2	543.4	567.5	603.8	751.7	1551.7	7951.7	11242.3	11637.7	10342.6
47.5°	392.5	477.0	507.2	525.3	573.6	824.2	1491.3	8338.1	12869.4	13690.6	12271.7
50°	356.2	449.8	483.0	480.0	567.5	917.7	1557.7	8630.9	15314.7	16280.8	14916.2
52.5°	317.0	419.6	458.9	446.8	612.8	990.2	1690.6	8863.4	17195.5	19317.7	18469.4
55°	283.8	386.4	422.6	419.6	697.4	1044.5	1793.2	7637.7	17974.3	22140.4	22472.5
57.5°	259.6	350.2	380.4	431.7	751.7	1044.5	2074.0	5421.9	17989.4	24217.4	27785.7
60°	238.5	317.0	338.1	474.0	730.6	990.2	2052.8	3320.8	16579.6	24075.5	30611.3
62.5°	220.4	286.8	314.0	486.0	646.0	981.1	1853.6	2058.9	14140.4	22243.0	28561.5
65°	205.3	262.6	301.9	446.8	585.7	1050.6	1249.8	1479.2	11468.7	20154.0	26209.8
67.5°	190.2	241.5	320.0	365.3	531.3	938.9	902.6	1050.6	9002.3	17862.6	24051.3
70°	178.1	229.4	338.1	298.9	464.9	733.6	640.0	797.0	6892.1	14904.2	21011.3
72.5°	169.1	214.3	283.8	235.5	377.4	567.5	446.8	579.6	4504.2	11634.7	17129.1
75°	160.0	196.2	208.3	190.2	280.8	371.3	338.1	389.4	2683.8	8504.2	12996.2
77.5°	157.0	184.2	169.1	154.0	190.2	220.4	256.6	262.6	1310.2	4253.6	6810.6
80°	138.9	166.0	144.9	126.8	129.8	144.9	190.2	175.1	298.9	1080.8	1817.4
82.5°	108.7	129.8	120.8	105.7	105.7	105.7	126.8	117.7	96.6	486.0	821.1
85°	75.5	90.6	90.6	84.5	81.5	81.5	78.5	75.5	27.2	30.2	45.3
87.5°	51.3	63.4	66.4	63.4	54.3	48.3	42.3	36.2	12.1	0.0	6.0
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):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3
2.5°	1400.8	1409.8	1409.8	1397.7	1388.7	1364.5	1340.4	1316.2	1310.2	1307.2
5°	1400.8	1437.0	1455.1	1452.1	1430.9	1391.7	1340.4	1286.0	1270.9	1264.9
7.5°	1379.6	1449.1	1503.4	1512.5	1473.2	1403.8	1310.2	1228.7	1207.5	1198.5
10°	1427.9	1563.8	1672.5	1687.5	1642.3	1506.4	1355.5	1216.6	1183.4	1162.3
12.5°	1687.5	1910.9	2043.8	2107.2	2019.6	1847.5	1597.0	1349.4	1274.0	1240.8
15°	2212.8	2529.8	2783.4	2783.4	2701.9	2397.0	2080.0	1678.5	1575.8	1485.3
17.5°	2886.0	3284.5	3507.9	3483.8	3360.0	3145.7	2765.3	2188.7	1980.4	1886.8
20°	3652.8	3891.3	3942.6	3927.5	3873.2	3749.4	3486.8	2867.9	2587.2	2442.3
22.5°	4317.0	4253.6	4178.1	4117.7	4102.6	4138.9	4102.6	3625.7	3405.3	3148.7
25°	4766.8	4407.5	4181.1	4072.5	4123.8	4332.1	4558.5	4380.4	4205.3	3939.6
27.5°	5011.3	4389.4	4063.4	3951.7	4039.2	4335.1	4827.2	5129.1	4947.9	4821.1
30°	5144.2	4374.3	3987.9	3879.2	4012.1	4383.4	5014.3	5829.4	5835.5	5633.2
32.5°	5334.3	4470.9	4003.0	3903.4	4081.5	4528.3	5249.8	6541.9	6717.0	6608.3
35°	5548.7	4618.9	4072.5	3981.9	4202.3	4721.5	5512.5	7260.4	7625.7	7589.4
37.5°	5750.9	4784.9	4235.5	4147.9	4386.4	4887.5	5766.0	7966.8	8474.0	8600.8
40°	5962.3	5017.4	4736.6	4821.1	4954.0	5150.2	5992.5	8579.6	9406.8	9597.0
42.5°	6460.4	5823.4	6252.1	6412.1	6430.2	6025.7	6487.5	9364.5	10324.5	10550.9
45°	7571.3	7257.4	8486.0	8712.5	8594.7	7369.1	7680.0	10496.6	11607.5	11722.3
47.5°	8975.1	9120.0	11544.2	12326.0	11619.6	8954.0	9126.0	12878.5	13956.2	13914.0
50°	10611.3	11296.6	15015.9	16860.4	15169.8	11012.8	10792.5	15806.8	17114.0	16984.2
52.5°	12546.4	13826.4	19187.9	21808.3	20208.3	13328.3	13237.7	19686.0	20483.0	20069.4
55°	14982.6	16268.7	23987.9	27649.8	25373.6	16154.0	16464.9	24184.2	24338.1	23024.9
57.5°	18617.4	19453.6	29645.3	34348.7	30765.3	19994.0	22249.1	30170.6	28329.1	25841.5
60°	25216.6	23550.2	35112.5	41201.5	36501.1	25394.7	29877.7	33717.7	29657.4	26227.9
62.5°	27514.0	27027.9	38535.9	44099.6	40359.3	29829.4	31861.1	31707.2	27936.6	24766.8
65°	24033.2	26161.5	37923.0	42569.1	39864.2	29098.9	28591.7	29488.3	25998.5	22547.9
67.5°	22200.8	24126.8	35601.5	38345.7	37120.0	26620.4	25485.3	25240.8	21826.4	19079.2
70°	20353.2	22261.1	32235.5	32576.6	32006.0	22581.1	21089.8	19450.6	16314.0	13926.0
72.5°	18131.3	19181.9	27565.3	25947.2	25301.1	17735.9	17421.9	14647.5	12229.4	10179.6
75°	15812.8	15507.9	21491.3	17808.3	18291.3	13799.2	14714.0	10756.2	8960.0	7326.8
77.5°	11501.9	11275.5	14394.0	10816.6	11978.9	9038.5	8120.8	4292.8	4087.5	3526.0
80°	6418.1	7737.4	7773.6	6061.9	7562.3	5892.8	2031.7	141.9	90.6	132.8
82.5°	2982.6	3326.8	4214.3	2810.6	4314.0	2919.2	419.6	0.0	0.0	0.0
85°	966.0	1412.8	1183.4	413.6	1044.5	987.2	69.4	0.0	0.0	0.0
87.5°	57.4	117.7	30.2	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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