

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: P643321

Luminaire Tested: GWS-SA6E-760-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643321
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-SAGE-760-U-SLL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27344.7 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

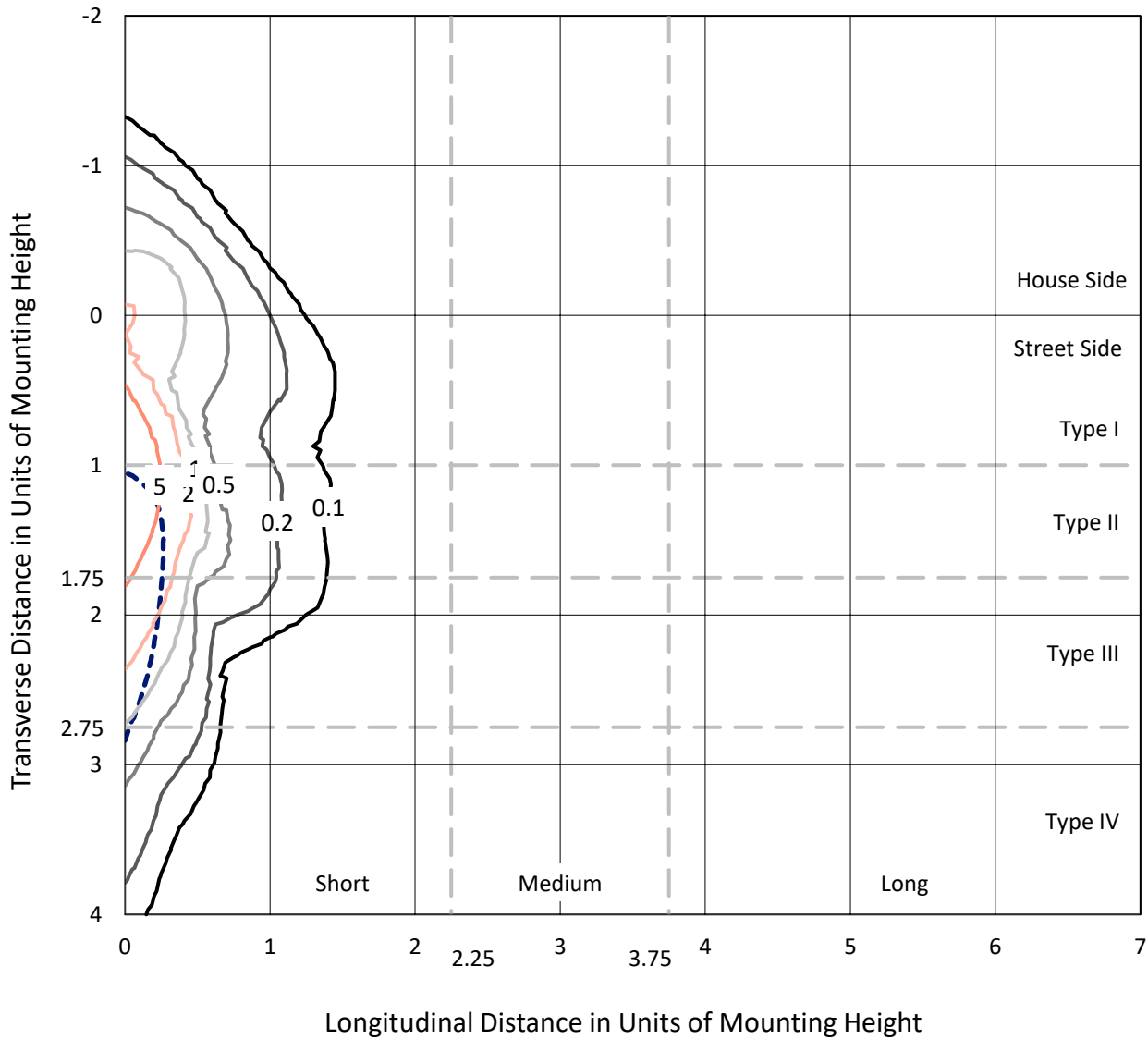
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

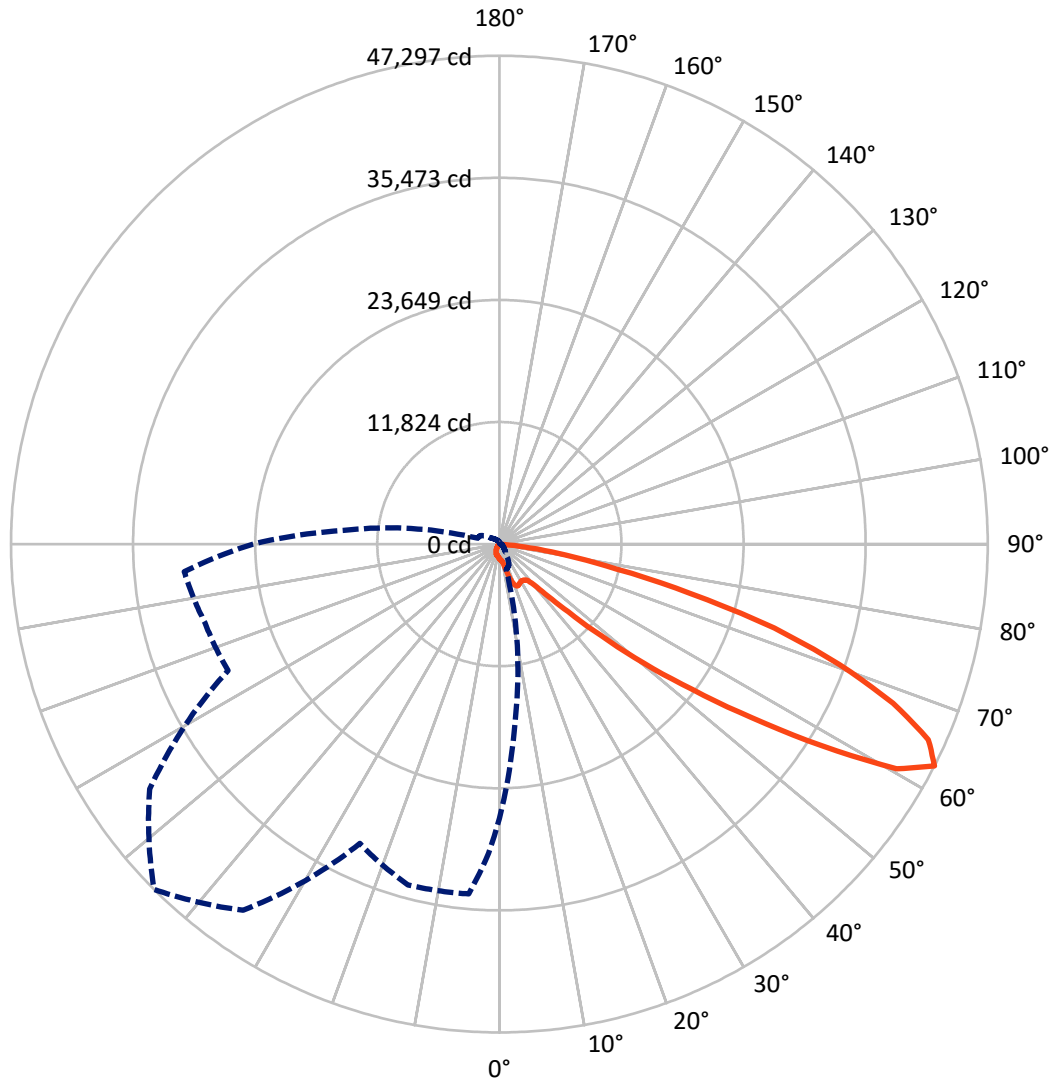
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	3177.1	0.0	3177.1
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	24167.6	0.0	24167.6
	% Fixture	88.4	0.0	88.4
Total	Lumens	27344.7	0.0	27344.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.5	0.4
10°-20°	419.7	1.5
20°-30°	948.2	3.5
30°-40°	1633.6	6.0
40°-50°	3081.5	11.3
50°-60°	6880.2	25.2
60°-70°	9202.1	33.7
70°-80°	4614.6	16.9
80°-90°	442.3	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°	27344.7	100.0
0°-180°	27344.7	100.0

Coefficient of Utilization



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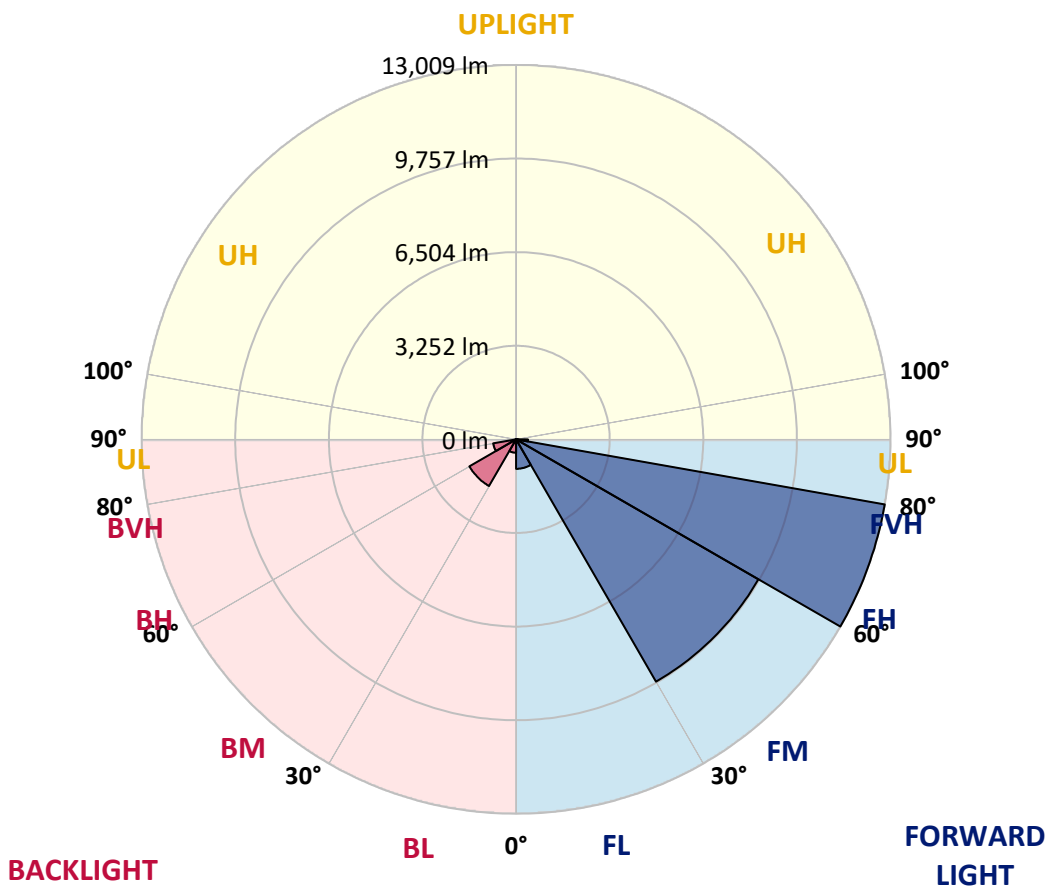
CATALOG NUMBER: GWS-SA6E-760-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1024.1	3.7			
FM (30°-60°)	9721.8	35.6			
FH (60°-80°)	13008.8	47.6			G5
FVH (80°-90°)	412.9	1.5			G3/500
BL (0°-30°)	466.3	1.7	B1/500		
BM (30°-60°)	1873.4	6.9	B2/2500		
BH (60°-80°)	807.9	3.0	B2/1000		G2/1000
BVH (80°-90°)	29.4	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°	1418.1	1418.1	1418.1	1418.1	1418.1	1418.1	1418.1	1418.1	1418.1	1418.1	1418.1
2.5°	1401.9	1398.7	1392.2	1372.8	1356.6	1346.9	1327.5	1327.5	1324.2	1317.8	1304.8
5°	1356.6	1343.7	1330.7	1295.1	1256.2	1233.6	1207.7	1204.4	1204.4	1198.0	1194.7
7.5°	1285.4	1272.4	1256.2	1198.0	1162.4	1139.7	1117.0	1113.8	1104.1	1104.1	1104.1
10°	1246.5	1227.1	1201.2	1136.5	1100.8	1081.4	1065.2	1055.5	1049.0	1039.3	1036.1
12.5°	1330.7	1295.1	1240.1	1123.5	1074.9	1049.0	1029.6	1023.1	1003.7	990.8	981.0
15°	1593.0	1505.6	1395.5	1152.6	1065.2	1026.4	1000.5	987.5	971.3	948.7	932.5
17.5°	2023.6	1897.3	1712.8	1246.5	1055.5	1006.9	974.6	951.9	929.2	903.3	883.9
20°	2619.3	2431.6	2211.4	1418.1	1055.5	984.3	945.4	916.3	883.9	854.8	832.1
22.5°	3377.0	3189.2	2813.6	1709.5	1068.5	955.1	909.8	871.0	832.1	806.2	780.3
25°	4225.3	3959.8	3610.1	2062.4	1104.1	916.3	867.7	828.9	793.2	760.9	731.7
27.5°	5170.7	4882.5	4416.3	2564.3	1181.8	877.4	822.4	786.8	754.4	722.0	683.2
30°	6041.6	5870.0	5394.1	3166.5	1308.1	851.5	786.8	754.4	722.0	679.9	644.3
32.5°	7087.4	6783.1	6391.3	3852.9	1476.4	825.6	757.6	712.3	686.4	647.6	608.7
35°	8139.7	7880.7	7365.9	4698.0	1664.2	799.7	722.0	679.9	657.3	611.9	569.8
37.5°	9224.4	9166.1	8657.7	5633.7	1848.8	770.6	679.9	654.0	631.4	579.6	531.0
40°	10292.8	10186.0	9716.5	6702.1	1962.1	738.2	644.3	628.1	602.2	543.9	488.9
42.5°	11315.9	11235.0	10778.5	7725.3	1945.9	709.1	608.7	589.3	569.8	511.6	443.6
45°	12572.2	12439.4	11863.1	8482.9	1780.8	741.4	573.1	540.7	537.5	482.4	398.2
47.5°	14922.8	14485.7	13507.9	9065.7	1615.6	825.6	534.2	495.4	518.0	453.3	352.9
50°	18215.6	17700.8	16285.9	9519.0	1612.4	935.7	527.8	453.3	501.9	430.6	314.1
52.5°	21524.6	20618.0	18898.8	9761.8	1732.2	1016.7	586.0	411.2	482.4	408.0	284.9
55°	24694.3	22813.2	19993.1	8958.9	1826.1	1104.1	692.9	388.5	446.8	382.1	268.7
57.5°	27715.2	24577.8	20469.1	7087.4	2140.2	1139.7	757.6	398.2	395.0	349.7	255.8
60°	28129.6	24493.6	19507.5	4121.7	2360.3	1078.2	731.7	443.6	346.4	310.8	233.1
62.5°	26562.5	22865.0	17315.5	2570.8	2192.0	1055.5	650.8	505.1	314.1	275.2	204.0
65°	24182.8	20310.4	14437.1	1657.7	1661.0	1172.1	569.8	495.4	294.6	242.8	174.8
67.5°	20462.6	16998.2	11374.2	1110.5	938.9	1000.5	498.6	340.0	288.2	207.2	136.0
70°	14935.8	12099.5	7404.7	741.4	560.1	799.7	417.7	242.8	272.0	171.6	97.1
72.5°	10917.7	8130.0	4134.6	485.7	317.3	466.2	307.6	174.8	210.5	126.3	68.0
75°	7858.0	5594.8	2360.3	310.8	210.5	255.8	200.7	119.8	136.0	100.4	61.5
77.5°	3781.7	2726.2	1071.7	171.6	142.5	129.5	106.8	74.5	84.2	90.7	55.0
80°	142.5	106.8	80.9	84.2	90.7	58.3	48.6	38.9	48.6	61.5	29.1
82.5°	0.0	0.0	0.0	9.7	13.0	16.2	19.4	16.2	19.4	22.7	3.2
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°	1418.1	1418.1	1418.1	1418.1	1418.1	1418.1	1418.1	1418.1	1418.1	1418.1	1418.1
2.5°	1314.5	1308.1	1314.5	1321.0	1327.5	1334.0	1324.2	1330.7	1337.2	1321.0	1327.5
5°	1210.9	1207.7	1227.1	1236.8	1249.8	1256.2	1249.8	1249.8	1246.5	1227.1	1227.1
7.5°	1120.3	1123.5	1139.7	1162.4	1178.5	1188.3	1181.8	1178.5	1168.8	1139.7	1139.7
10°	1052.3	1052.3	1078.2	1097.6	1120.3	1130.0	1123.5	1113.8	1104.1	1074.9	1071.7
12.5°	997.2	997.2	1016.7	1049.0	1074.9	1087.9	1084.6	1071.7	1055.5	1026.4	1023.1
15°	945.4	942.2	971.3	1000.5	1036.1	1052.3	1045.8	1036.1	1006.9	981.0	974.6
17.5°	893.6	890.4	916.3	955.1	994.0	1016.7	1013.4	990.8	964.9	932.5	926.0
20°	841.8	835.3	867.7	906.6	945.4	968.1	961.6	942.2	909.8	877.4	871.0
22.5°	790.0	786.8	809.4	841.8	877.4	896.9	893.6	877.4	845.1	815.9	815.9
25°	731.7	731.7	747.9	770.6	796.5	806.2	809.4	803.0	783.5	767.3	767.3
27.5°	683.2	673.5	679.9	686.4	699.4	715.5	715.5	722.0	725.3	718.8	722.0
30°	644.3	628.1	618.4	605.5	599.0	605.5	611.9	634.6	657.3	670.2	676.7
32.5°	599.0	579.6	553.7	518.0	495.4	488.9	508.3	550.4	592.5	621.6	637.8
35°	553.7	527.8	479.2	427.4	398.2	388.5	411.2	459.8	521.3	573.1	595.7
37.5°	508.3	472.7	404.7	343.2	310.8	304.3	327.0	378.8	450.0	521.3	550.4
40°	456.5	414.4	333.5	268.7	242.8	236.4	255.8	307.6	382.1	463.0	508.3
42.5°	404.7	352.9	268.7	213.7	187.8	187.8	213.7	252.5	320.5	408.0	463.0
45°	352.9	297.9	220.2	171.6	155.4	158.6	174.8	213.7	268.7	359.4	411.2
47.5°	304.3	255.8	181.3	142.5	129.5	132.7	152.2	184.6	229.9	310.8	365.9
50°	262.3	216.9	158.6	119.8	110.1	116.6	136.0	165.1	204.0	275.2	320.5
52.5°	236.4	194.3	145.7	103.6	97.1	103.6	123.0	148.9	184.6	242.8	288.2
55°	223.4	191.0	145.7	93.9	84.2	90.7	110.1	136.0	165.1	220.2	259.0
57.5°	220.2	197.5	155.4	84.2	71.2	77.7	97.1	123.0	152.2	200.7	233.1
60°	207.2	187.8	152.2	68.0	55.0	64.8	80.9	106.8	139.2	187.8	216.9
62.5°	181.3	165.1	132.7	55.0	42.1	48.6	68.0	93.9	126.3	171.6	204.0
65°	148.9	132.7	103.6	35.6	25.9	32.4	51.8	80.9	110.1	155.4	184.6
67.5°	110.1	93.9	71.2	22.7	13.0	22.7	42.1	68.0	100.4	139.2	168.4
70°	68.0	55.0	38.9	13.0	9.7	19.4	38.9	64.8	90.7	129.5	158.6
72.5°	38.9	25.9	16.2	6.5	9.7	19.4	38.9	64.8	87.4	123.0	148.9
75°	29.1	16.2	6.5	3.2	6.5	16.2	35.6	58.3	84.2	116.6	142.5
77.5°	19.4	9.7	3.2	0.0	3.2	13.0	32.4	55.0	77.7	110.1	136.0
80°	3.2	0.0	0.0	0.0	0.0	9.7	29.1	48.6	71.2	97.1	119.8
82.5°	0.0	0.0	0.0	0.0	0.0	3.2	22.7	42.1	61.5	80.9	97.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	13.0	32.4	48.6	61.5	68.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.2	32.4	38.9	45.3
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°	1418.1	1418.1	1418.1	1418.1	1418.1	1418.1	1418.1	1418.1	1418.1	1418.1	1418.1
2.5°	1324.2	1343.7	1343.7	1356.6	1372.8	1401.9	1418.1	1440.8	1457.0	1473.2	1479.7
5°	1223.9	1227.1	1230.3	1236.8	1256.2	1288.6	1317.8	1353.4	1395.5	1427.8	1447.3
7.5°	1139.7	1139.7	1139.7	1149.4	1168.8	1191.5	1220.6	1269.2	1317.8	1356.6	1389.0
10°	1068.5	1078.2	1081.4	1097.6	1120.3	1149.4	1181.8	1223.9	1278.9	1330.7	1389.0
12.5°	1023.1	1032.8	1049.0	1065.2	1087.9	1120.3	1155.9	1210.9	1324.2	1431.1	1554.1
15°	981.0	994.0	1013.4	1036.1	1062.0	1097.6	1136.5	1249.8	1515.3	1716.0	1910.3
17.5°	935.7	955.1	981.0	1003.7	1036.1	1074.9	1123.5	1343.7	1864.9	2198.4	2528.7
20°	877.4	903.3	932.5	968.1	1006.9	1052.3	1123.5	1537.9	2370.0	2849.2	3286.3
22.5°	822.4	848.3	883.9	929.2	974.6	1019.9	1139.7	1832.6	3020.8	3626.3	4179.9
25°	777.1	809.4	845.1	883.9	935.7	987.5	1178.5	2247.0	3804.4	4584.7	4976.4
27.5°	735.0	773.8	809.4	841.8	887.1	945.4	1266.0	2800.7	4730.4	5523.6	5831.2
30°	692.9	738.2	773.8	806.2	851.5	913.0	1398.7	3506.5	5760.0	6530.5	6562.9
32.5°	657.3	699.4	741.4	773.8	815.9	887.1	1583.3	4332.1	6815.5	7560.2	7255.8
35°	618.4	667.0	705.8	741.4	786.8	864.5	1797.0	5222.5	7880.7	8505.6	7945.4
37.5°	579.6	634.6	683.2	709.1	754.4	841.8	1952.4	6151.7	8968.6	9428.3	8550.9
40°	543.9	605.5	660.5	686.4	709.1	812.7	1975.0	7103.6	10072.6	10338.1	9120.7
42.5°	505.1	573.1	621.6	657.3	676.7	793.2	1839.0	7906.6	10998.6	11244.7	9865.4
45°	463.0	543.9	582.8	608.7	647.6	806.2	1664.2	8528.2	12057.4	12481.5	11092.5
47.5°	420.9	511.6	543.9	563.4	615.2	883.9	1599.4	8942.7	13802.5	14683.2	13161.5
50°	382.1	482.4	518.0	514.8	608.7	984.3	1670.7	9256.7	16425.1	17461.2	15997.7
52.5°	340.0	450.0	492.1	479.2	657.3	1062.0	1813.1	9506.0	18442.2	20718.4	19808.6
55°	304.3	414.4	453.3	450.0	747.9	1120.3	1923.2	8191.5	19277.6	23745.7	24101.8
57.5°	278.4	375.6	408.0	463.0	806.2	1120.3	2224.3	5815.0	19293.8	25973.2	29800.3
60°	255.8	340.0	362.6	508.3	783.5	1062.0	2201.7	3561.5	17781.7	25821.1	32830.8
62.5°	236.4	307.6	336.7	521.3	692.9	1052.3	1988.0	2208.1	15165.6	23855.8	30632.4
65°	220.2	281.7	323.8	479.2	628.1	1126.7	1340.4	1586.5	12300.2	21615.2	28110.2
67.5°	204.0	259.0	343.2	391.8	569.8	1006.9	968.1	1126.7	9655.0	19157.8	25795.2
70°	191.0	246.1	362.6	320.5	498.6	786.8	686.4	854.8	7391.8	15984.8	22534.8
72.5°	181.3	229.9	304.3	252.5	404.7	608.7	479.2	621.6	4830.7	12478.3	18371.0
75°	171.6	210.5	223.4	204.0	301.1	398.2	362.6	417.7	2878.4	9120.7	13938.5
77.5°	168.4	197.5	181.3	165.1	204.0	236.4	275.2	281.7	1405.2	4562.0	7304.4
80°	148.9	178.1	155.4	136.0	139.2	155.4	204.0	187.8	320.5	1159.1	1949.1
82.5°	116.6	139.2	129.5	113.3	113.3	113.3	136.0	126.3	103.6	521.3	880.7
85°	80.9	97.1	97.1	90.7	87.4	87.4	84.2	80.9	29.1	32.4	48.6
87.5°	55.0	68.0	71.2	68.0	58.3	51.8	45.3	38.9	13.0	0.0	6.5
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°	1418.1	1418.1	1418.1	1418.1	1418.1	1418.1	1418.1	1418.1	1418.1	1418.1
2.5°	1502.3	1512.0	1512.0	1499.1	1489.4	1463.5	1437.6	1411.7	1405.2	1401.9
5°	1502.3	1541.2	1560.6	1557.4	1534.7	1492.6	1437.6	1379.3	1363.1	1356.6
7.5°	1479.7	1554.1	1612.4	1622.1	1580.0	1505.6	1405.2	1317.8	1295.1	1285.4
10°	1531.5	1677.2	1793.7	1809.9	1761.3	1615.6	1453.8	1304.8	1269.2	1246.5
12.5°	1809.9	2049.5	2192.0	2260.0	2166.1	1981.5	1712.8	1447.3	1366.3	1330.7
15°	2373.3	2713.2	2985.2	2985.2	2897.8	2570.8	2230.8	1800.2	1690.1	1593.0
17.5°	3095.3	3522.7	3762.3	3736.4	3603.6	3373.7	2965.8	2347.4	2124.0	2023.6
20°	3917.7	4173.5	4228.5	4212.3	4154.0	4021.3	3739.6	3075.9	2774.8	2619.3
22.5°	4630.0	4562.0	4481.0	4416.3	4400.1	4439.0	4400.1	3888.5	3652.2	3377.0
25°	5112.4	4727.1	4484.3	4367.7	4422.8	4646.2	4889.0	4698.0	4510.2	4225.3
27.5°	5374.7	4707.7	4358.0	4238.2	4332.1	4649.4	5177.2	5500.9	5306.7	5170.7
30°	5517.1	4691.5	4277.1	4160.5	4303.0	4701.2	5377.9	6252.1	6258.6	6041.6
32.5°	5721.1	4795.1	4293.3	4186.4	4377.4	4856.6	5630.5	7016.2	7204.0	7087.4
35°	5951.0	4953.8	4367.7	4270.6	4507.0	5063.8	5912.1	7786.8	8178.6	8139.7
37.5°	6167.9	5131.8	4542.6	4448.7	4704.5	5241.9	6184.1	8544.4	9088.4	9224.4
40°	6394.6	5381.1	5080.0	5170.7	5313.2	5523.6	6426.9	9201.7	10088.8	10292.8
42.5°	6928.8	6245.6	6705.4	6877.0	6896.4	6462.6	6957.9	10043.5	11073.1	11315.9
45°	8120.3	7783.6	9101.3	9344.2	9217.9	7903.4	8236.8	11257.7	12449.2	12572.2
47.5°	9625.8	9781.2	12381.2	13219.7	12462.1	9603.2	9787.7	13812.3	14968.1	14922.8
50°	11380.7	12115.7	16104.6	18082.8	16269.7	11811.3	11575.0	16952.9	18354.8	18215.6
52.5°	13456.1	14828.9	20579.2	23389.5	21673.5	14294.7	14197.5	21113.4	21968.1	21524.6
55°	16069.0	17448.2	25727.2	29654.6	27213.3	17325.2	17658.7	25937.6	26102.8	24694.3
57.5°	19967.2	20864.1	31794.7	36839.1	32995.9	21443.6	23862.2	32358.1	30383.1	27715.2
60°	27044.9	25257.7	37658.3	44188.8	39147.7	27236.0	32044.0	36162.5	31807.7	28129.6
62.5°	29508.9	28987.6	41329.9	47297.1	43285.5	31992.2	34171.2	34006.1	29962.2	26562.5
65°	25775.7	28058.4	40672.6	45655.5	42754.5	31208.7	30664.8	31626.4	27883.5	24182.8
67.5°	23810.4	25876.1	38182.8	41125.9	39811.4	28550.5	27333.1	27070.8	23408.9	20462.6
70°	21828.9	23875.2	34572.7	34938.6	34326.6	24218.4	22618.9	20860.8	17496.8	14935.8
72.5°	19445.9	20572.7	29563.9	27828.5	27135.6	19021.8	18685.1	15709.6	13116.1	10917.7
75°	16959.3	16632.3	23049.6	19099.5	19617.5	14799.8	15780.8	11536.1	9609.6	7858.0
77.5°	12335.8	12093.0	15437.6	11600.9	12847.4	9693.8	8709.6	4604.1	4383.9	3781.7
80°	6883.5	8298.4	8337.2	6501.4	8110.6	6320.1	2179.0	152.2	97.1	142.5
82.5°	3198.9	3568.0	4519.9	3014.3	4626.7	3130.9	450.0	0.0	0.0	0.0
85°	1036.1	1515.3	1269.2	443.6	1120.3	1058.7	74.5	0.0	0.0	0.0
87.5°	61.5	126.3	32.4	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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