

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: P633584

Luminaire Tested: GWS-SA2F-722-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633584
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-38)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-722-U-SLL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6407.6 lumens
Efficiency: N/A
Efficacy: 51.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

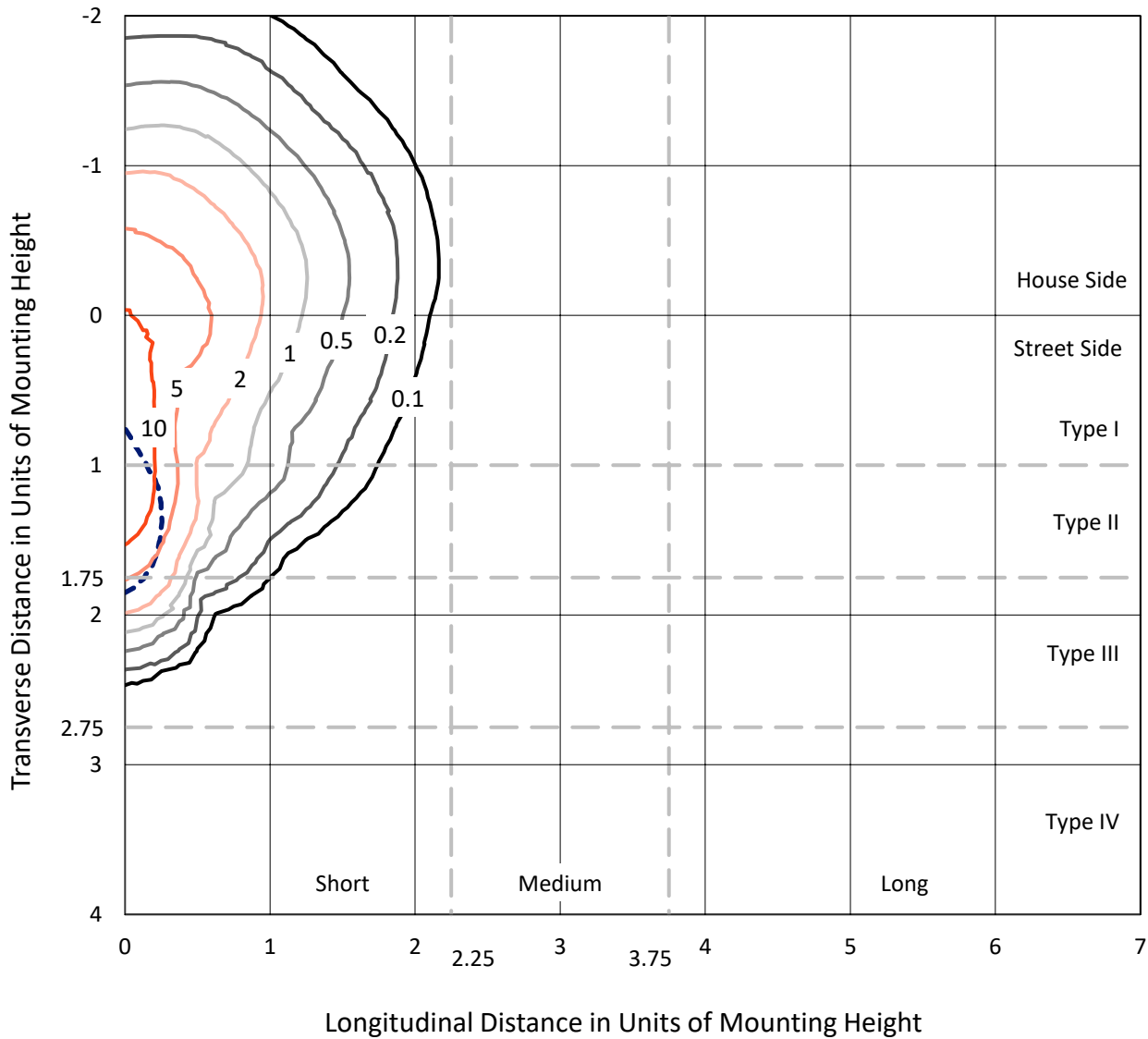
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

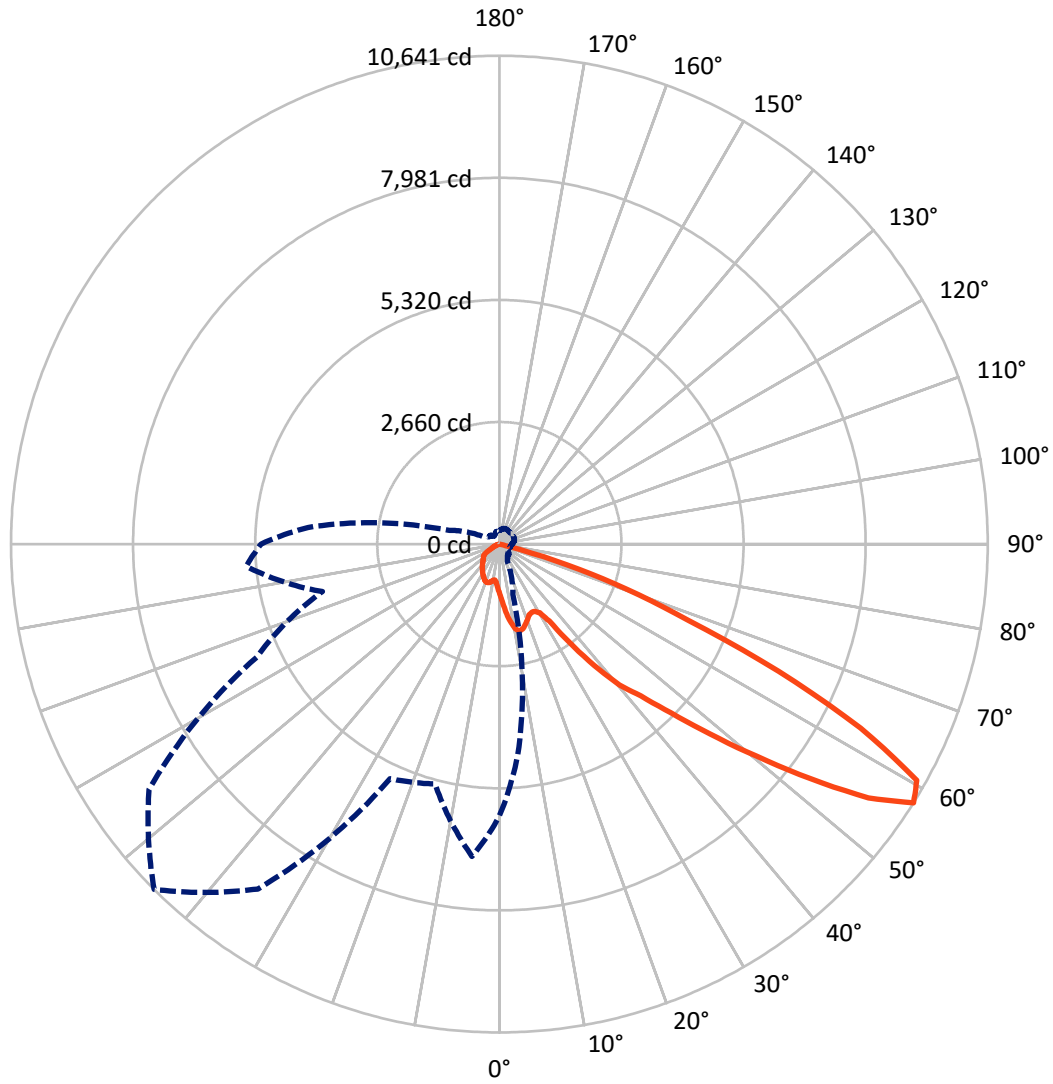
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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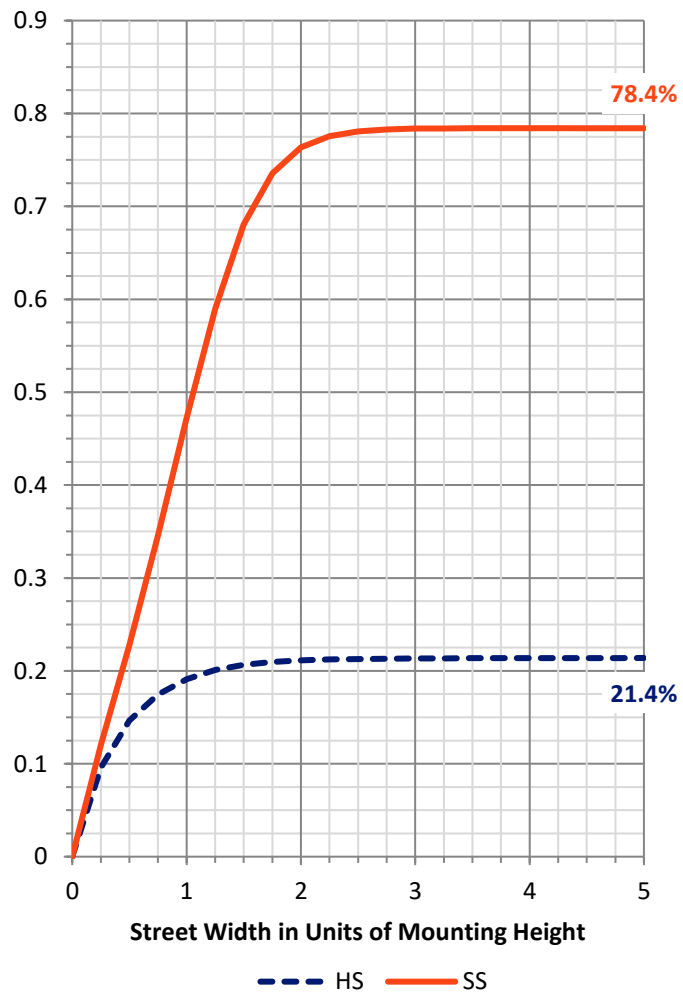
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1380.4	0.0	1380.4
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	5027.2	0.0	5027.2
	% Fixture	78.5	0.0	78.5
Total	Lumens	6407.6	0.0	6407.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.6	1.7
10°-20°	354.1	5.5
20°-30°	574.6	9.0
30°-40°	881.9	13.8
40°-50°	1408.5	22.0
50°-60°	1972.2	30.8
60°-70°	1011.2	15.8
70°-80°	97.4	1.5
80°-90°	0.0	0.0
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°	6407.6	100.0
0°-180°	6407.6	100.0

Coefficient of Utilization



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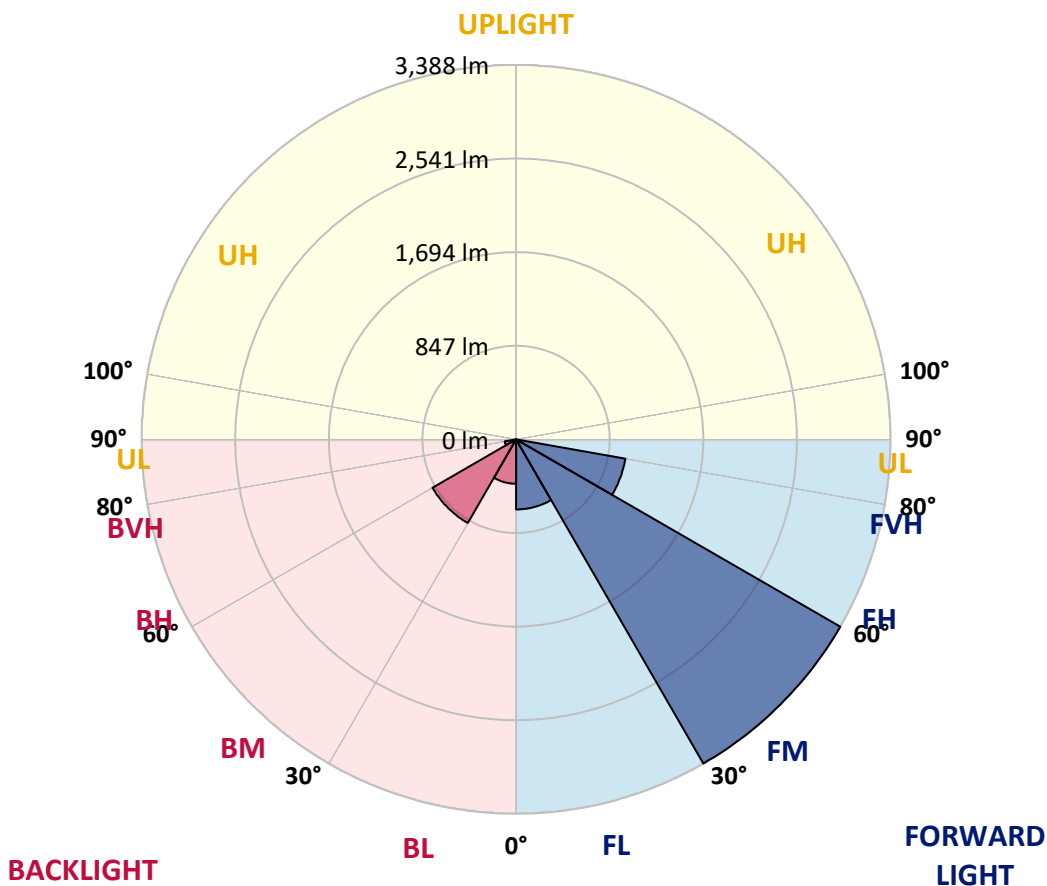
CATALOG NUMBER: GWS-SA2F-722-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	634.4	9.9			
FM (30°-60°)	3388.5	52.9			
FH (60°-80°)	1004.3	15.7			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	401.9	6.3	B1/500		
BM (30°-60°)	874.2	13.6	B1/1000		
BH (60°-80°)	104.3	1.6	B0/110		G0/110
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7
2.5°	1209.5	1207.0	1198.4	1169.3	1151.3	1123.0	1102.5	1075.9	1046.8	1028.8	1010.8
5°	1338.0	1331.2	1308.0	1241.2	1189.8	1134.1	1089.6	1040.8	988.5	954.3	922.6
7.5°	1461.4	1451.1	1420.3	1307.2	1229.2	1149.6	1086.2	1015.1	941.4	890.0	850.6
10°	1582.2	1559.0	1510.2	1371.4	1266.1	1170.1	1095.6	1014.2	927.7	862.6	818.9
12.5°	1681.5	1664.4	1597.6	1432.2	1296.9	1174.4	1082.7	1007.4	949.1	905.4	865.2
15°	1767.2	1748.3	1684.9	1487.1	1323.5	1157.3	1028.8	962.8	972.2	989.4	955.1
17.5°	1846.0	1826.3	1757.8	1532.5	1333.7	1115.3	953.4	921.7	974.0	1038.2	1025.4
20°	1927.4	1905.1	1821.1	1569.3	1330.3	1049.3	877.2	886.6	960.3	1033.9	1040.8
22.5°	2022.4	1999.3	1901.7	1616.4	1327.7	970.5	811.2	855.7	934.6	997.1	1009.1
25°	2148.4	2121.0	2013.9	1685.8	1334.6	898.6	764.1	825.8	890.9	947.4	954.3
27.5°	2314.5	2279.4	2143.2	1771.5	1349.2	842.0	743.5	784.7	835.2	885.7	891.7
30°	2531.3	2486.7	2291.4	1846.0	1342.3	802.6	729.8	743.5	773.5	814.6	815.5
32.5°	2784.8	2724.0	2457.6	1910.2	1283.2	773.5	711.0	701.6	708.4	740.1	746.1
35°	3082.9	3004.1	2640.9	1971.1	1175.3	717.0	676.7	645.0	642.5	657.9	672.4
37.5°	3424.7	3330.5	2872.2	2049.0	1047.6	657.9	626.2	594.5	580.8	588.5	610.8
40°	3739.9	3635.4	3113.8	2143.2	917.4	604.8	567.1	534.5	518.2	520.8	548.2
42.5°	4110.0	4002.1	3409.3	2266.6	809.5	568.8	505.4	472.0	450.6	462.6	494.3
45°	4671.9	4549.4	3840.2	2373.7	723.8	560.2	451.4	404.3	394.0	414.6	452.3
47.5°	5439.4	5289.5	4432.1	2438.8	651.0	567.9	413.7	349.5	352.1	375.2	412.9
50°	6201.0	6039.1	5116.5	2353.1	591.1	552.5	394.9	306.7	322.9	343.5	377.8
52.5°	6724.4	6513.6	5449.7	2105.5	536.2	494.3	393.2	266.4	297.2	304.1	333.2
55°	6744.9	6485.4	5279.3	1660.1	461.7	417.2	375.2	233.0	269.0	271.5	296.4
57.5°	5912.3	5677.6	4613.7	1140.1	410.3	305.8	299.0	203.9	221.0	242.4	257.8
60°	4498.0	4298.4	3450.4	522.5	311.8	194.4	204.7	175.6	165.3	197.0	212.4
62.5°	2754.8	2627.2	2069.6	231.3	198.7	103.6	124.2	139.6	124.2	136.2	149.0
65°	1093.9	1037.3	785.5	98.5	81.4	52.3	56.5	81.4	87.4	95.9	107.9
67.5°	190.2	179.9	131.9	43.7	33.4	31.7	27.4	37.7	53.1	59.1	68.5
70°	24.8	24.0	21.4	18.0	17.1	15.4	12.0	24.0	36.0	37.7	43.7
72.5°	6.0	5.1	5.1	4.3	5.1	1.7	1.7	12.8	25.7	26.6	30.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	16.3	18.0	21.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7
2.5°	996.2	979.1	973.1	964.5	953.4	956.8	941.4	936.3	944.0	954.3	951.7
5°	905.4	886.6	873.7	854.0	850.6	842.9	837.8	830.9	839.5	851.5	854.0
7.5°	833.5	817.2	804.4	798.4	794.1	790.6	780.4	775.2	775.2	780.4	784.7
10°	802.6	790.6	788.1	789.8	796.6	795.8	786.4	779.5	770.9	766.7	771.8
12.5°	845.5	825.8	822.3	823.2	831.8	830.9	820.6	812.1	810.3	812.1	828.3
15°	918.3	888.3	866.0	861.7	866.0	864.3	856.6	851.5	854.0	878.9	906.3
17.5°	983.4	937.1	896.9	881.4	880.6	878.0	870.3	868.6	881.4	927.7	968.0
20°	1002.2	956.8	899.4	879.7	875.5	872.9	864.3	866.9	883.2	938.8	973.1
22.5°	977.4	933.7	873.7	854.0	850.6	849.8	841.2	844.6	858.3	907.1	935.4
25°	930.3	893.4	830.9	813.8	813.8	812.1	804.4	806.1	814.6	857.5	884.9
27.5°	872.9	837.8	785.5	768.4	770.9	773.5	764.1	761.5	768.4	808.6	824.9
30°	806.9	782.1	741.0	725.5	724.7	735.0	722.1	718.7	728.1	759.8	763.2
32.5°	742.7	730.7	701.6	689.6	690.4	692.1	685.3	685.3	693.9	711.0	710.1
35°	680.1	672.4	667.3	658.7	657.9	654.4	654.4	656.2	665.6	671.6	660.4
37.5°	620.2	627.9	633.9	625.3	618.5	618.5	618.5	626.2	634.7	632.2	613.3
40°	567.1	583.3	602.2	592.8	576.5	575.6	579.1	591.9	604.8	589.3	572.2
42.5°	521.7	542.2	568.8	563.6	545.7	543.1	545.7	561.9	572.2	552.5	533.7
45°	477.1	502.8	534.5	534.5	514.8	512.3	513.1	534.5	540.5	517.4	493.4
47.5°	439.4	467.7	501.1	501.1	484.8	479.7	484.0	506.3	510.5	478.0	455.7
50°	403.5	434.3	471.1	468.6	457.4	453.1	460.9	484.8	479.7	443.7	420.6
52.5°	358.1	390.6	441.2	443.7	437.7	438.6	448.0	463.4	448.9	405.2	385.5
55°	316.9	350.4	400.9	414.6	414.6	413.7	418.0	430.0	418.0	365.8	341.8
57.5°	272.4	300.7	342.6	346.1	348.6	339.2	345.2	361.5	355.5	310.9	297.2
60°	223.6	247.6	271.5	274.1	263.0	243.3	254.4	273.3	277.5	244.1	228.7
62.5°	158.5	181.6	209.9	209.9	198.7	179.0	193.6	209.9	203.9	169.6	160.2
65°	118.2	139.6	161.0	170.5	161.0	147.3	158.5	170.5	161.0	132.8	119.1
67.5°	76.2	90.8	103.6	111.4	113.1	111.4	116.5	113.1	101.9	83.1	75.4
70°	46.3	54.0	60.8	67.7	72.8	75.4	78.0	70.2	59.1	48.8	46.3
72.5°	33.4	40.3	46.3	51.4	57.4	59.1	59.1	54.0	43.7	34.3	31.7
75°	23.1	29.1	34.3	37.7	42.8	44.5	44.5	40.3	32.6	24.8	22.3
77.5°	0.9	6.0	6.0	5.1	6.9	8.6	8.6	10.3	9.4	6.9	6.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7
2.5°	956.8	987.7	996.2	1027.9	1056.2	1084.5	1118.7	1139.3	1170.1	1191.5	1203.5
5°	862.6	888.3	919.1	966.3	1015.1	1069.0	1134.1	1190.7	1261.8	1314.0	1331.2
7.5°	794.1	827.5	863.5	922.6	989.4	1061.3	1153.0	1245.5	1354.3	1425.4	1470.8
10°	781.2	815.5	863.5	921.7	991.9	1074.2	1186.4	1306.3	1442.5	1529.0	1580.4
12.5°	842.9	879.7	900.3	926.8	980.0	1071.6	1215.5	1368.0	1528.2	1622.4	1677.2
15°	933.7	966.3	932.8	899.4	933.7	1044.2	1231.8	1419.4	1603.6	1712.4	1768.9
17.5°	996.2	998.8	926.0	854.9	864.3	994.5	1237.8	1470.8	1684.1	1798.0	1857.1
20°	990.2	969.7	896.0	817.2	788.1	930.3	1230.9	1516.2	1765.5	1884.5	1942.8
22.5°	944.0	920.0	857.5	780.4	723.8	854.0	1219.0	1557.3	1840.0	1975.3	2030.2
25°	888.3	862.6	811.2	743.5	682.7	780.4	1209.5	1613.8	1934.2	2093.5	2136.4
27.5°	823.2	800.9	757.2	708.4	665.6	724.7	1207.0	1688.4	2048.1	2237.5	2267.4
30°	759.8	739.3	705.0	676.7	658.7	692.1	1198.4	1768.0	2184.3	2402.8	2435.3
32.5°	699.0	678.4	657.0	652.7	653.6	680.1	1169.3	1846.8	2346.2	2642.6	2666.6
35°	646.7	622.8	614.2	624.5	643.3	659.6	1087.0	1911.9	2520.1	2903.9	2923.6
37.5°	597.1	573.1	572.2	597.1	617.6	627.9	990.2	1976.2	2754.8	3169.4	3194.3
40°	551.7	527.7	536.2	566.2	582.5	587.6	872.9	2073.8	3003.3	3449.6	3435.8
42.5°	513.1	488.3	493.4	532.0	546.5	560.2	764.9	2155.2	3242.3	3715.1	3710.8
45°	475.4	456.6	453.1	495.1	508.0	562.8	686.1	2217.8	3549.8	4053.5	4060.3
47.5°	438.6	424.0	424.9	442.9	474.6	575.6	619.3	2258.9	3996.1	4589.7	4470.6
50°	405.2	394.0	403.5	382.9	453.1	559.4	561.9	2250.3	4494.6	5103.7	4864.7
52.5°	368.3	365.8	370.1	320.4	418.9	493.4	508.0	2136.4	4728.5	5454.9	5318.7
55°	330.6	329.8	295.5	256.1	350.4	394.0	435.2	1782.6	4720.8	5641.6	5806.9
57.5°	286.1	279.3	224.4	209.0	272.4	274.1	396.6	1167.6	4183.7	5194.5	5537.1
60°	216.7	211.6	164.5	169.6	190.2	175.6	316.1	581.6	3126.6	4046.6	4432.9
62.5°	149.9	143.1	122.5	131.1	122.5	100.2	193.6	287.8	1894.0	2555.3	2905.6
65°	109.6	101.9	83.9	72.0	57.4	57.4	73.7	110.5	733.3	1086.2	1309.8
67.5°	67.7	64.2	49.7	36.0	35.1	37.7	38.5	54.8	118.2	188.5	230.4
70°	43.7	40.3	33.4	23.1	21.4	22.3	23.1	25.7	30.0	32.6	39.4
72.5°	30.0	28.3	24.0	12.8	10.3	11.1	12.0	12.0	14.6	13.7	16.3
75°	21.4	19.7	17.1	6.0	3.4	4.3	5.1	4.3	5.1	3.4	4.3
77.5°	6.0	6.0	4.3	0.9	0.0	0.9	1.7	1.7	0.9	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7
2.5°	1234.4	1254.1	1261.8	1250.6	1260.1	1244.6	1238.7	1215.5	1213.8	1209.5
5°	1400.6	1445.1	1471.6	1487.9	1469.1	1448.5	1417.7	1364.6	1348.3	1338.0
7.5°	1564.2	1633.5	1678.9	1700.4	1695.2	1653.2	1597.6	1508.5	1476.8	1461.4
10°	1706.4	1791.2	1846.0	1872.5	1861.4	1824.6	1744.9	1633.5	1591.6	1582.2
12.5°	1805.7	1883.7	1921.4	1944.5	1945.4	1930.8	1855.4	1743.2	1693.5	1681.5
15°	1868.3	1901.7	1902.5	1916.2	1940.2	1972.8	1937.6	1838.3	1785.2	1767.2
17.5°	1907.7	1870.8	1833.1	1836.6	1876.0	1962.5	1998.5	1922.2	1865.7	1846.0
20°	1935.9	1819.4	1749.2	1750.0	1790.3	1921.4	2040.4	2003.6	1945.4	1927.4
22.5°	1953.9	1774.0	1673.8	1671.2	1714.1	1872.5	2079.0	2100.4	2043.0	2022.4
25°	1990.8	1752.6	1628.4	1643.0	1680.7	1857.1	2131.2	2228.9	2175.8	2148.4
27.5°	2056.7	1774.0	1624.1	1657.5	1700.4	1902.5	2222.0	2400.2	2345.4	2314.5
30°	2170.6	1854.6	1690.1	1736.3	1787.7	2021.6	2374.5	2639.2	2560.4	2531.3
32.5°	2354.0	2021.6	1894.0	1993.3	2043.0	2216.9	2603.2	2907.3	2843.1	2784.8
35°	2606.7	2402.8	2388.2	2619.5	2607.5	2587.0	2884.2	3236.3	3139.5	3082.9
37.5°	2954.4	3016.1	3124.0	3353.6	3345.9	3189.1	3253.4	3547.2	3497.5	3424.7
40°	3388.7	3519.8	3703.1	4032.0	3929.3	3732.2	3706.5	3865.9	3825.6	3739.9
42.5°	3644.9	3871.0	4220.5	4516.0	4433.8	4089.4	4060.3	4291.6	4203.4	4110.0
45°	3763.9	4157.1	4842.4	5242.4	4993.2	4326.7	4315.6	4846.7	4797.0	4671.9
47.5°	3818.7	4445.8	5570.5	6176.1	5710.1	4534.9	4494.6	5651.9	5586.8	5439.4
50°	3879.6	4844.1	6447.7	7258.0	6576.2	4770.4	4799.6	6402.3	6374.9	6201.0
52.5°	4013.2	5265.6	7527.9	8495.0	7626.4	5139.6	5322.9	7109.8	6924.8	6724.4
55°	4213.6	5724.7	8651.7	9758.5	8698.0	5635.6	5889.2	7485.9	6966.8	6744.9
57.5°	3991.8	5839.5	9317.3	10640.8	9173.4	5637.3	5410.3	6834.0	6127.3	5912.3
60°	3167.7	5432.6	9061.2	10449.7	8768.2	5006.0	4142.5	5335.8	4641.9	4498.0
62.5°	2141.5	4556.3	7976.7	8837.6	7504.7	3937.8	2692.3	3470.1	2873.9	2754.8
65°	1173.6	3399.0	6445.1	6685.8	5873.7	2750.6	1385.1	1505.9	1147.0	1093.9
67.5°	323.8	2365.9	4742.2	4435.5	4121.1	1791.2	358.1	269.0	191.9	190.2
70°	81.4	1565.0	2841.4	2928.7	2527.0	1147.0	68.5	32.6	25.7	24.8
72.5°	34.3	673.3	1348.3	1549.6	1293.5	531.1	24.8	9.4	7.7	6.0
75°	4.3	54.0	114.8	173.9	119.1	57.4	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	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
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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