

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: P632818

Luminaire Tested: GWS-SA2D-740-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632818
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-42)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-740-U-SLR-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6229.2 lumens
Efficiency: N/A
Efficacy: 75.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

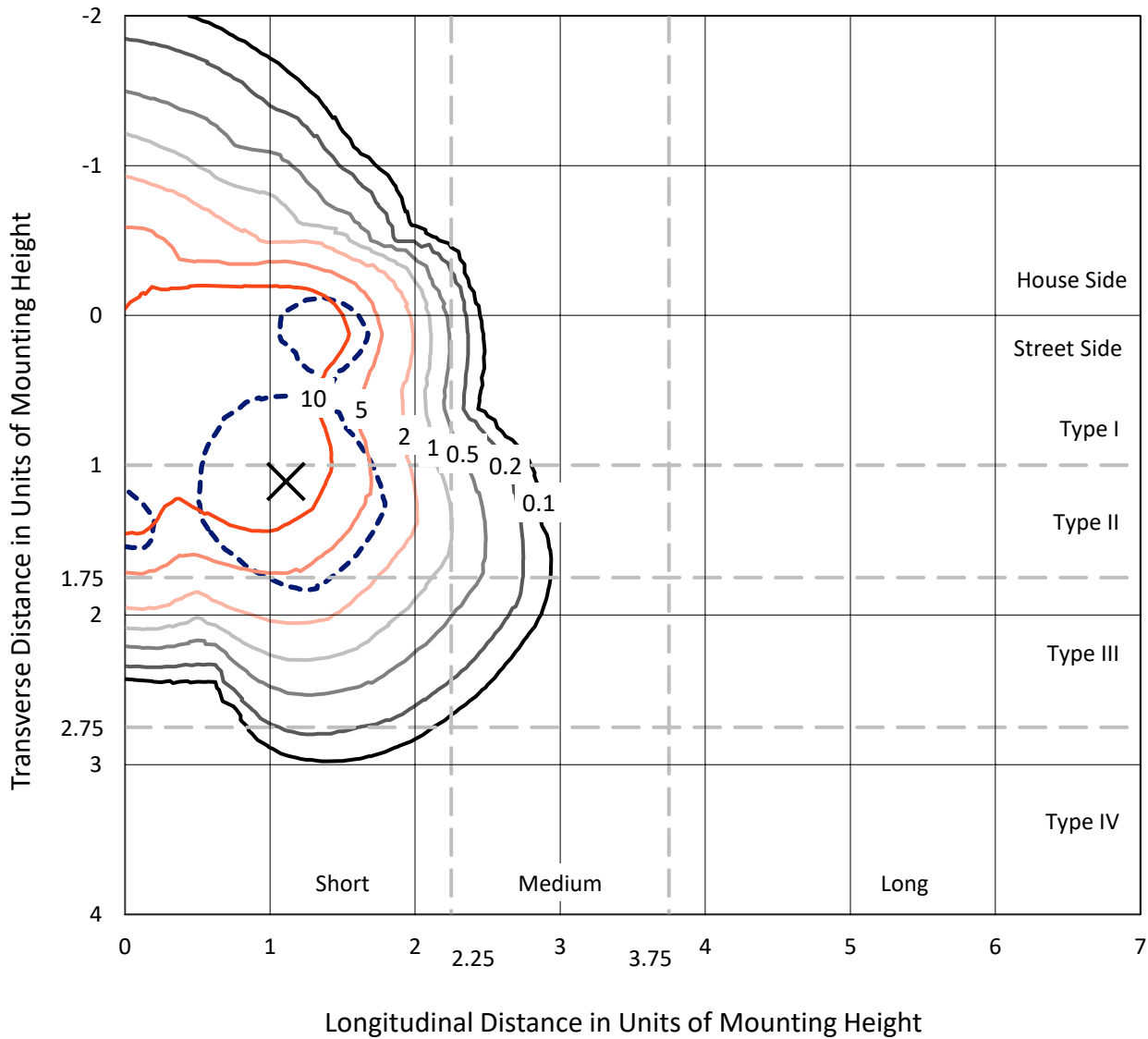
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

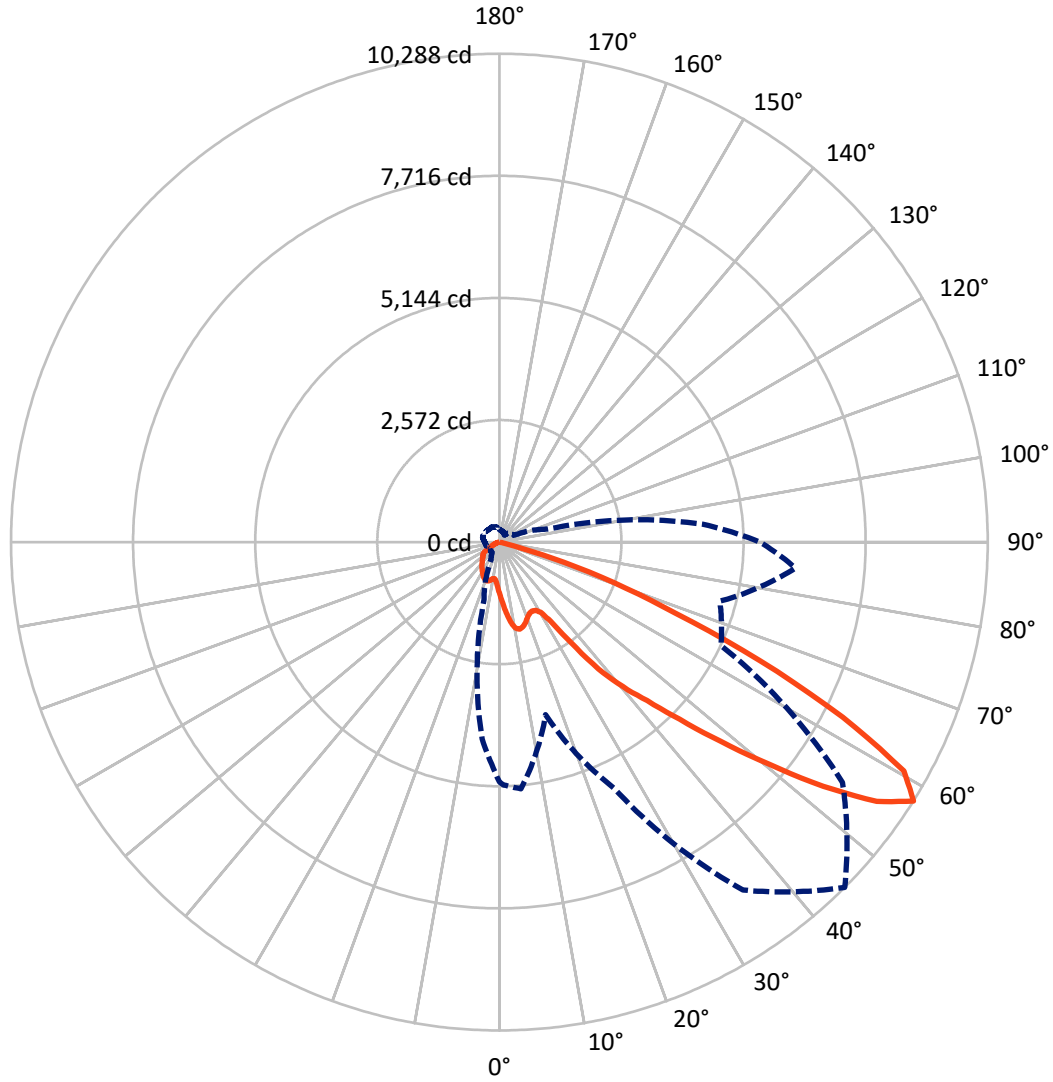
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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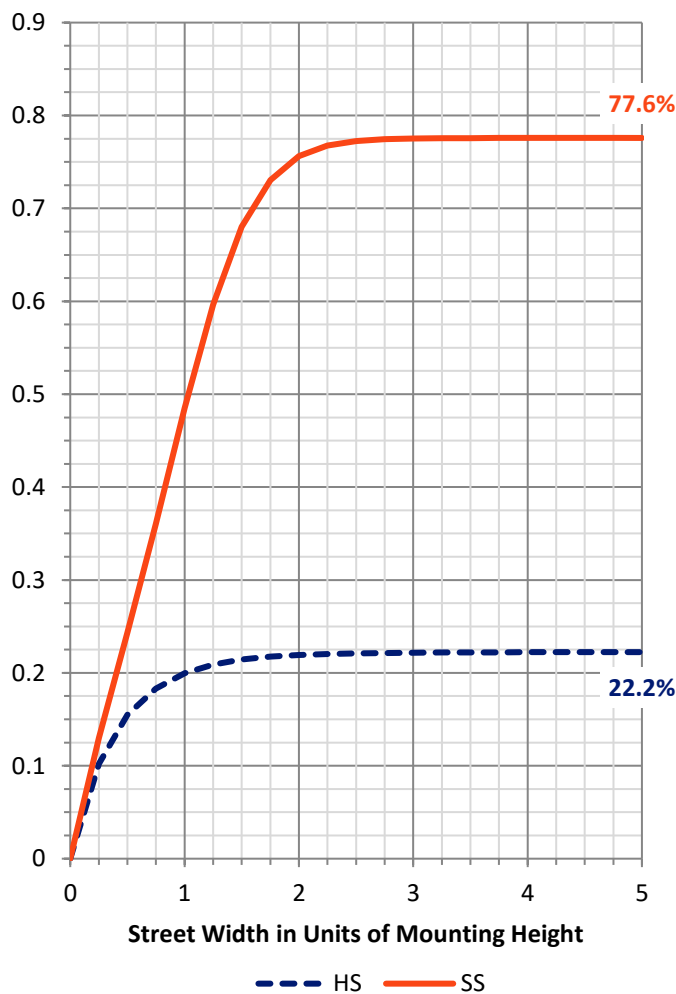
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1394.9	0.0	1394.9
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	4834.3	0.0	4834.3
	% Fixture	77.6	0.0	77.6
Total	Lumens	6229.2	0.0	6229.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.7	1.7
10°-20°	348.4	5.6
20°-30°	566.0	9.1
30°-40°	874.6	14.0
40°-50°	1402.4	22.5
50°-60°	1916.6	30.8
60°-70°	928.3	14.9
70°-80°	85.0	1.4
80°-90°	0.2	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°	6229.2	100.0
0°-180°	6229.2	100.0

Coefficient of Utilization



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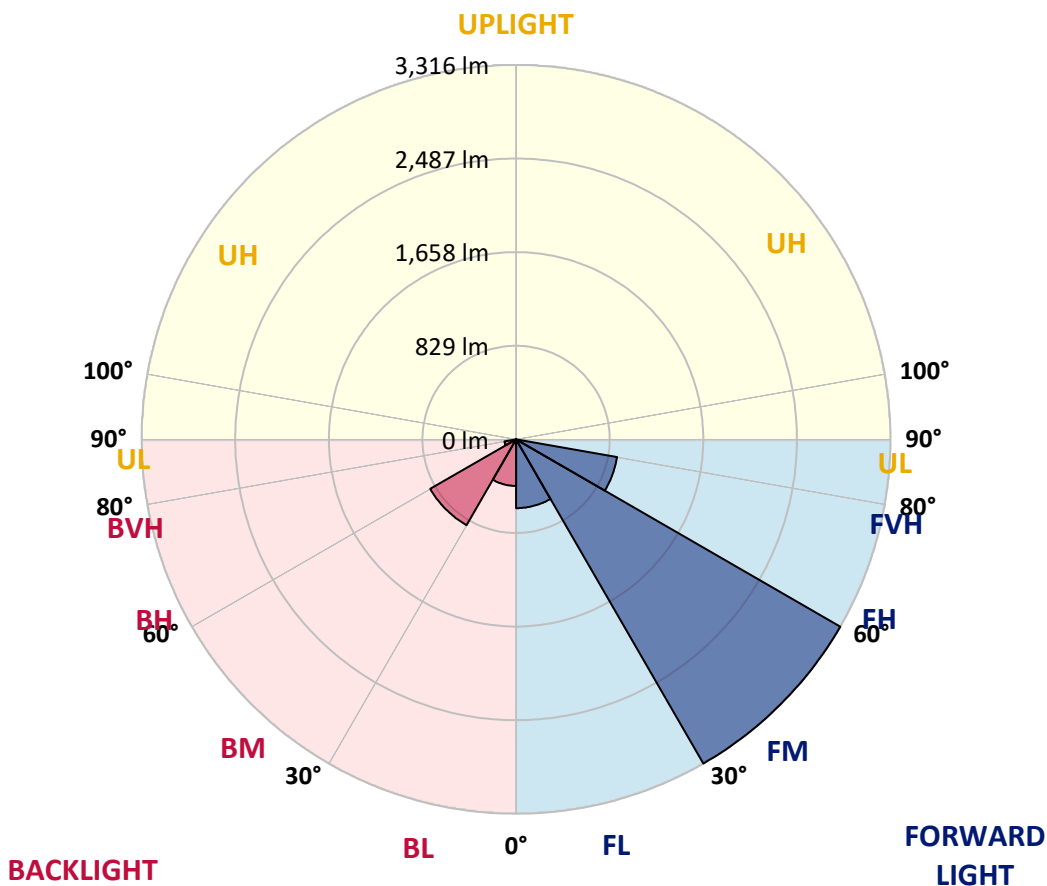
CATALOG NUMBER: GWS-SA2D-740-U-SLR-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	609.4	9.8			
FM (30°-60°)	3315.9	53.2			
FH (60°-80°)	908.7	14.6			G1/1800
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	412.7	6.6	B1/500		
BM (30°-60°)	877.6	14.1	B1/1000		
BH (60°-80°)	104.5	1.7	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°	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8
2.5°	1186.1	1193.6	1206.2	1233.0	1255.6	1270.6	1277.3	1275.6	1266.4	1259.7	1246.4
5°	1313.3	1313.3	1337.6	1398.7	1445.6	1474.9	1489.9	1480.7	1462.3	1433.0	1387.8
7.5°	1424.6	1428.8	1469.8	1556.9	1628.0	1669.9	1694.2	1689.1	1656.5	1600.4	1510.0
10°	1511.7	1516.7	1571.1	1677.4	1761.1	1803.8	1839.8	1843.2	1807.2	1732.7	1628.9
12.5°	1596.2	1601.3	1658.2	1760.3	1834.0	1851.5	1883.3	1895.9	1886.7	1834.0	1726.0
15°	1687.5	1699.2	1747.7	1823.9	1854.9	1834.0	1854.9	1877.5	1908.5	1903.4	1806.3
17.5°	1777.0	1785.4	1834.8	1861.6	1827.3	1772.9	1782.9	1809.7	1880.0	1948.6	1885.9
20°	1859.9	1871.6	1912.6	1877.5	1773.7	1689.1	1690.0	1725.1	1832.3	1976.3	1967.0
22.5°	1947.0	1964.5	1993.8	1895.1	1724.3	1623.0	1627.2	1659.0	1794.6	2002.2	2059.1
25°	2060.8	2077.5	2096.8	1938.6	1708.4	1590.4	1606.3	1635.6	1794.6	2046.6	2173.0
27.5°	2214.8	2226.5	2227.4	2019.8	1736.0	1595.4	1628.9	1662.4	1848.2	2135.3	2325.3
30°	2408.2	2426.6	2402.3	2146.2	1822.2	1662.4	1711.7	1753.6	1963.7	2285.1	2549.6
32.5°	2643.4	2669.3	2636.7	2333.7	2002.2	1893.4	1982.9	2007.2	2147.8	2501.9	2804.1
35°	2919.6	2941.4	2906.2	2593.2	2422.4	2442.5	2604.9	2573.9	2517.8	2768.9	3101.2
37.5°	3222.6	3242.7	3174.9	2986.6	3043.5	3130.5	3390.0	3283.7	3102.9	3113.0	3423.5
40°	3500.5	3522.3	3416.0	3414.3	3531.5	3690.5	4003.6	3857.1	3611.0	3563.3	3725.7
42.5°	3788.4	3803.5	3707.3	3642.0	3908.1	4235.4	4566.9	4369.4	3947.5	3895.6	4104.0
45°	4199.4	4231.2	4059.6	3754.1	4247.1	4862.4	5324.4	4938.5	4176.8	4135.0	4683.2
47.5°	4803.8	4827.2	4477.3	3824.4	4562.7	5643.3	6271.1	5676.8	4378.6	4283.1	5475.1
50°	5303.5	5319.4	4861.5	3901.4	4898.4	6485.4	7350.1	6552.4	4605.4	4528.4	6214.2
52.5°	5671.8	5732.1	5366.3	4059.6	5339.5	7475.6	8544.5	7589.4	4959.5	5002.2	6826.9
55°	5748.0	5830.0	5711.1	4156.7	5727.9	8484.2	9647.7	8517.7	5312.7	5361.2	7032.8
57.5°	5051.5	5116.8	5215.6	3765.0	5718.7	8946.3	10288.1	8825.8	5152.0	4808.0	6261.9
60°	3784.3	3829.5	4008.6	2877.7	5259.1	8537.8	9789.2	8301.8	4505.0	3668.7	4771.1
62.5°	2244.1	2264.2	2491.0	1864.1	4365.2	7352.6	8118.5	7163.4	3559.9	2467.6	2922.1
65°	861.3	852.9	1026.2	919.9	3210.0	5856.8	6038.4	5460.9	2442.5	1130.8	1114.1
67.5°	133.1	127.2	171.6	272.0	2315.3	4058.8	3984.3	3935.8	1530.1	263.7	230.2
70°	30.1	30.1	36.8	80.4	1414.6	2384.7	2552.1	2433.3	979.3	56.1	30.1
72.5°	14.2	14.2	17.6	34.3	512.3	982.7	1145.1	1127.5	318.1	18.4	10.9
75°	5.0	5.9	5.9	7.5	31.0	51.1	117.2	83.7	20.1	0.0	0.0
77.5°	1.7	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.8	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°	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8
2.5°	1217.1	1211.2	1189.4	1160.1	1131.7	1106.6	1080.6	1049.6	1027.0	1001.1	992.7
5°	1352.7	1315.8	1256.4	1194.5	1137.5	1089.0	1042.1	991.9	955.1	918.2	905.7
7.5°	1467.3	1412.9	1316.7	1223.8	1145.9	1077.3	1009.5	940.8	887.3	843.7	830.3
10°	1570.3	1507.5	1378.6	1263.9	1166.0	1086.5	1004.4	918.2	848.8	796.9	784.3
12.5°	1659.0	1586.2	1431.3	1294.1	1174.4	1083.1	1003.6	935.0	872.2	812.8	796.9
15°	1733.5	1653.2	1475.7	1314.2	1161.8	1041.3	971.8	960.9	955.9	890.6	859.6
17.5°	1806.3	1715.9	1511.7	1323.4	1126.7	967.6	917.4	966.8	1019.5	976.8	937.5
20°	1882.5	1779.5	1548.5	1325.0	1068.1	884.8	876.4	954.2	1021.2	1007.8	971.0
22.5°	1972.1	1859.1	1594.6	1324.2	994.4	814.4	846.2	930.0	984.4	983.5	954.2
25°	2101.8	1959.5	1656.5	1329.2	914.0	760.0	812.8	888.9	933.3	931.6	907.4
27.5°	2240.8	2079.2	1736.9	1341.8	845.4	728.2	773.4	832.9	871.4	869.7	848.8
30°	2435.8	2217.3	1813.9	1342.6	796.0	711.5	729.9	770.9	807.7	803.6	787.7
32.5°	2672.7	2373.0	1878.3	1294.9	765.1	695.6	684.7	705.6	734.1	728.2	724.0
35°	2958.9	2558.0	1933.6	1190.3	717.3	663.8	634.5	638.7	658.8	662.1	660.4
37.5°	3285.4	2778.1	2002.2	1052.2	652.9	617.7	578.4	575.0	586.8	597.6	606.0
40°	3607.6	3025.9	2095.1	912.4	594.3	559.1	521.5	513.1	518.1	537.4	555.0
42.5°	3970.1	3313.0	2195.6	792.7	554.1	494.7	458.7	442.8	457.0	488.0	508.9
45°	4492.4	3715.6	2293.5	697.3	537.4	437.8	389.2	387.5	403.5	443.6	467.1
47.5°	5225.6	4236.3	2357.9	622.8	536.5	393.4	335.7	345.7	364.1	403.5	430.2
50°	5940.5	4888.3	2286.8	565.8	519.0	364.1	295.5	315.6	334.0	368.3	395.9
52.5°	6371.6	5239.0	2009.7	512.3	464.6	350.7	256.1	291.3	294.6	325.6	354.9
55°	6326.4	5012.2	1539.3	429.4	384.2	331.5	215.1	262.8	264.5	287.9	313.1
57.5°	5491.0	4303.2	1057.2	348.2	288.8	273.7	177.5	221.8	237.7	251.9	270.4
60°	4092.3	3139.7	471.3	282.9	183.3	185.0	151.5	167.4	191.7	208.4	224.3
62.5°	2411.5	1806.3	191.7	169.9	101.3	116.3	122.2	122.2	137.3	149.8	159.9
65°	911.5	632.0	77.8	85.4	52.7	54.4	72.0	88.7	100.4	111.3	124.7
67.5°	159.9	110.5	40.2	31.8	31.0	27.6	36.8	57.8	64.5	72.8	78.7
70°	26.8	22.6	16.7	15.9	14.2	15.1	24.3	41.0	45.2	47.7	50.2
72.5°	7.5	6.7	5.0	4.2	3.3	4.2	15.1	31.8	33.5	35.2	37.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	5.9	22.6	24.3	25.1	27.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	6.7	8.4	6.7
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°	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8
2.5°	987.7	971.0	961.8	956.7	956.7	950.0	942.5	940.0	950.9	950.9	969.3
5°	889.8	876.4	861.3	852.1	837.9	840.4	832.0	831.2	842.1	847.1	866.3
7.5°	822.0	805.2	796.0	790.2	782.6	779.3	771.8	769.2	775.1	783.5	801.9
10°	776.8	774.3	773.4	777.6	777.6	773.4	766.7	762.5	764.2	780.1	801.0
12.5°	788.5	793.5	795.2	801.9	805.2	801.9	796.9	798.5	809.4	838.7	869.7
15°	839.6	835.4	833.7	837.0	839.6	836.2	834.5	847.1	884.8	926.6	961.8
17.5°	894.0	867.2	855.5	855.5	857.1	855.5	857.1	881.4	942.5	984.4	1010.3
20°	921.6	872.2	853.8	849.6	852.9	853.8	859.6	887.3	954.2	983.5	989.4
22.5°	913.2	851.3	830.3	827.0	830.3	833.7	839.6	863.0	925.8	940.8	938.3
25°	871.4	810.3	793.5	793.5	801.0	800.2	802.7	819.5	871.4	880.6	876.4
27.5°	818.6	760.9	746.6	755.0	761.7	760.0	760.9	775.1	813.6	816.1	811.9
30°	765.1	714.8	701.4	711.5	720.7	719.0	719.9	734.1	758.4	755.8	750.0
32.5°	710.6	673.8	663.8	669.6	683.9	682.2	685.5	700.6	709.8	698.9	692.2
35°	660.4	641.2	633.6	637.0	647.9	650.4	656.2	666.3	666.3	652.9	641.2
37.5°	613.6	611.0	606.0	601.8	611.9	619.4	627.8	639.5	622.8	603.5	592.6
40°	570.0	580.9	574.2	563.3	569.2	580.1	596.8	606.0	585.9	566.7	548.3
42.5°	529.8	548.3	545.8	532.4	537.4	547.4	566.7	574.2	550.8	529.0	511.4
45°	491.3	517.3	519.0	502.2	507.2	517.3	539.9	542.4	512.3	488.8	476.3
47.5°	457.9	486.3	487.2	474.6	476.3	490.5	511.4	512.3	478.0	456.2	440.3
50°	426.1	458.7	461.2	450.3	452.0	468.7	486.3	483.0	446.1	423.5	409.3
52.5°	387.5	431.9	437.8	432.7	439.4	452.8	463.7	452.0	409.3	386.7	374.2
55°	345.7	403.5	416.0	412.7	420.2	431.1	433.6	426.1	372.5	349.9	338.2
57.5°	297.1	332.3	354.1	347.4	353.2	364.1	371.6	365.8	325.6	308.0	298.0
60°	246.1	269.5	274.5	263.7	258.6	277.9	295.5	287.9	253.6	242.7	231.0
62.5°	180.0	206.7	210.1	195.9	190.0	210.9	226.0	218.5	180.8	169.1	159.9
65°	144.0	169.1	175.8	162.4	159.0	174.9	184.1	165.7	138.9	126.4	116.3
67.5°	94.6	114.7	132.3	131.4	124.7	129.7	123.0	108.0	88.7	82.0	75.3
70°	58.6	70.3	81.2	85.4	84.5	82.9	73.7	62.8	56.9	54.4	51.1
72.5°	45.2	56.9	65.3	67.8	68.6	66.1	58.6	48.5	42.7	39.3	36.8
75°	33.5	42.7	49.4	52.7	54.4	52.7	45.2	38.5	32.6	30.1	27.6
77.5°	11.7	14.2	17.6	19.3	18.4	17.6	15.9	15.9	12.6	11.7	10.0
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8	1094.8
2.5°	990.2	1005.3	1032.9	1058.0	1084.8	1112.4	1142.6	1173.5	1187.8	1186.1
5°	895.6	928.3	973.5	1022.9	1078.1	1137.5	1203.7	1271.5	1300.8	1313.3
7.5°	836.2	882.2	941.7	1004.4	1077.3	1161.8	1261.4	1367.7	1410.4	1424.6
10°	843.7	897.3	946.7	1007.8	1085.6	1195.3	1319.2	1445.6	1495.8	1511.7
12.5°	904.8	916.6	930.0	980.2	1078.1	1220.4	1371.9	1522.6	1580.3	1596.2
15°	960.1	905.7	880.6	926.6	1051.3	1238.0	1425.5	1605.4	1669.1	1687.5
17.5°	962.6	880.6	824.5	860.5	1007.8	1245.5	1478.2	1690.0	1759.5	1777.0
20°	931.6	852.9	781.0	781.8	948.4	1243.8	1521.7	1766.2	1844.0	1859.9
22.5°	886.4	820.3	745.8	719.9	884.8	1240.5	1569.5	1847.3	1931.9	1947.0
25°	836.2	778.4	712.3	673.0	821.1	1243.8	1636.4	1953.7	2046.6	2060.8
27.5°	781.8	732.4	686.4	654.6	767.6	1256.4	1716.8	2089.3	2199.7	2214.8
30°	724.9	688.0	669.6	650.4	734.1	1259.7	1803.8	2247.5	2387.2	2408.2
32.5°	668.8	648.7	649.5	652.9	702.3	1236.3	1883.3	2423.2	2609.9	2643.4
35°	616.9	611.0	627.8	644.5	656.2	1176.0	1952.8	2630.8	2885.3	2919.6
37.5°	572.5	577.6	598.5	615.2	606.0	1090.7	2044.9	2890.3	3193.3	3222.6
40°	529.8	542.4	566.7	574.2	567.5	991.1	2155.4	3140.6	3460.3	3500.5
42.5°	490.5	499.7	534.0	535.7	556.6	889.8	2261.7	3410.1	3767.5	3788.4
45°	458.7	457.0	492.2	503.1	570.9	777.6	2365.5	3769.2	4169.3	4199.4
47.5°	427.7	426.1	434.4	483.8	576.7	673.8	2468.4	4294.9	4751.9	4803.8
50°	398.4	400.9	375.0	474.6	544.9	594.3	2515.3	4781.2	5281.7	5303.5
52.5°	372.5	363.3	318.1	444.5	477.1	519.0	2382.2	5002.2	5609.8	5671.8
55°	335.7	284.6	262.0	360.8	376.7	452.8	1951.1	4874.1	5638.3	5748.0
57.5°	287.1	223.5	222.7	266.2	266.2	420.2	1249.7	4164.3	4859.0	5051.5
60°	221.0	173.3	184.1	185.0	170.8	306.4	701.4	3016.7	3592.6	3784.3
62.5°	157.4	132.3	138.9	110.5	97.9	153.2	336.5	1736.9	2217.3	2244.1
65°	105.5	89.6	72.8	61.1	60.3	65.3	138.9	627.8	763.4	861.3
67.5°	69.5	54.4	38.5	38.5	43.5	43.5	52.7	103.8	145.6	133.1
70°	45.2	37.7	24.3	23.4	28.5	28.5	26.8	28.5	30.1	30.1
72.5°	33.5	28.5	14.2	12.6	15.9	16.7	15.1	14.2	14.2	14.2
75°	25.1	20.1	8.4	5.9	7.5	10.0	8.4	5.9	5.9	5.0
77.5°	10.0	7.5	3.3	2.5	4.2	5.9	5.0	2.5	1.7	1.7
80°	0.8	1.7	1.7	1.7	2.5	3.3	4.2	1.7	0.8	0.8
82.5°	0.0	0.8	0.8	0.8	1.7	2.5	3.3	1.7	0.8	0.8
85°	0.0	0.0	0.0	0.0	1.7	2.5	1.7	0.8	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.8	2.5	1.7	0.8	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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