

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: P632814

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632814
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-SA2D-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6261 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

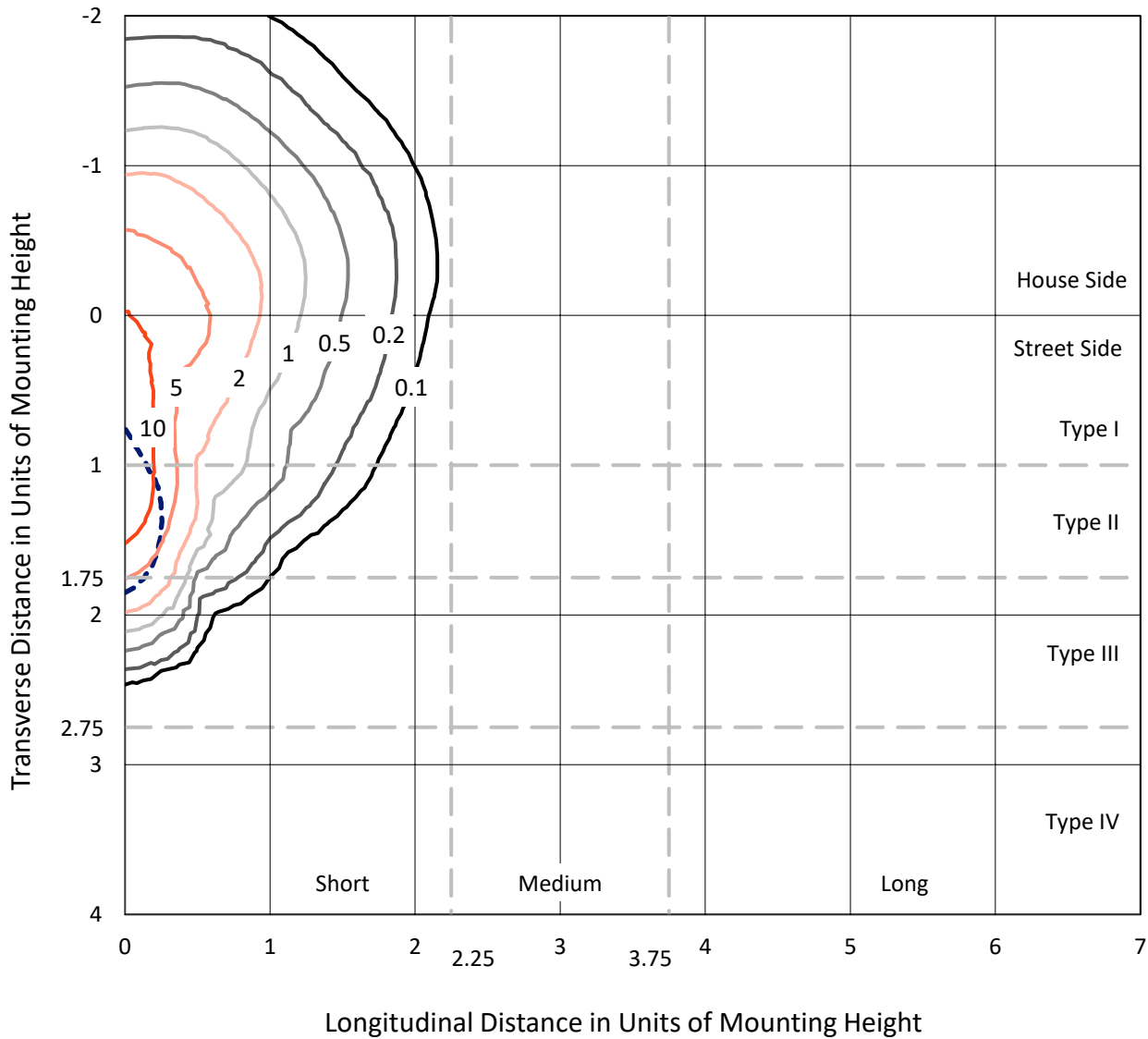
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

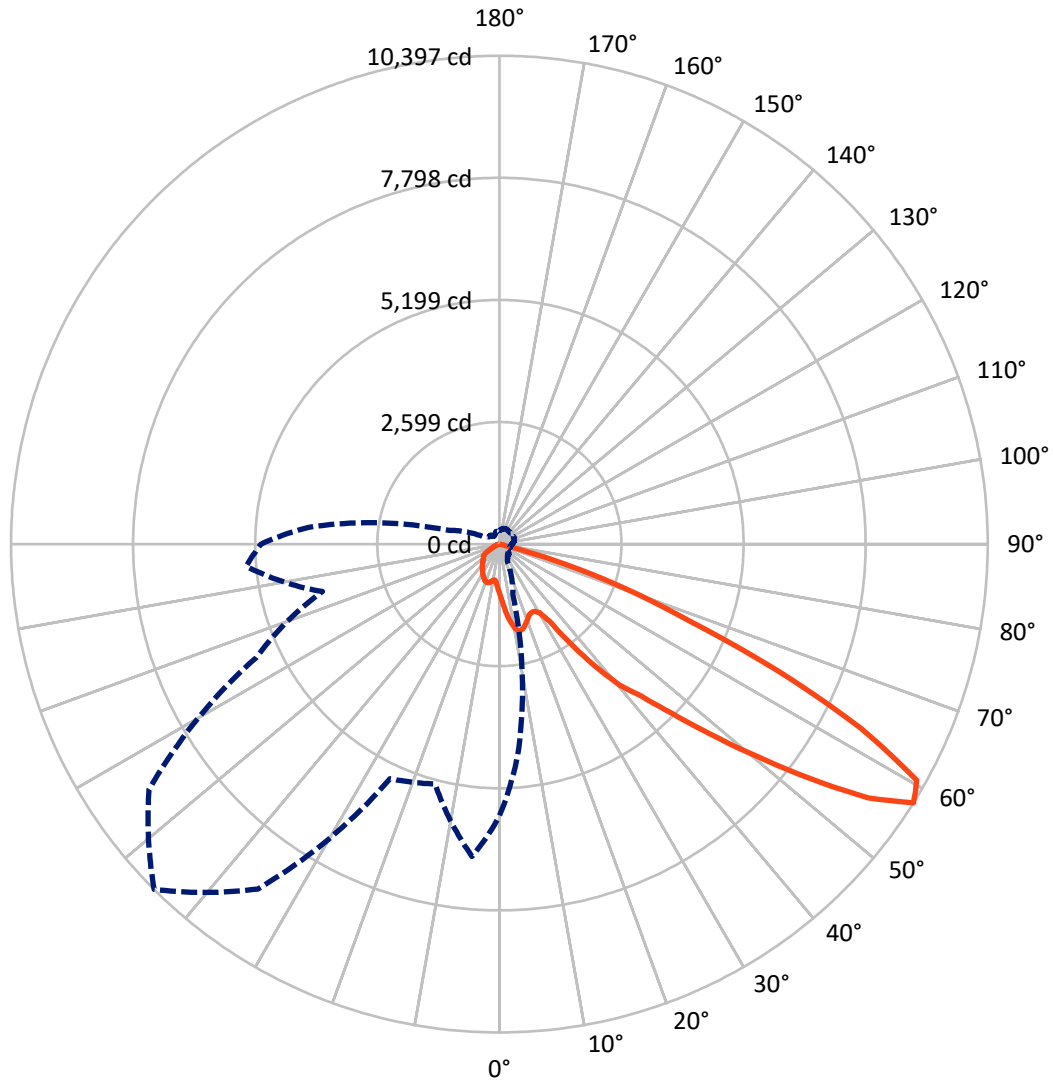
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.7 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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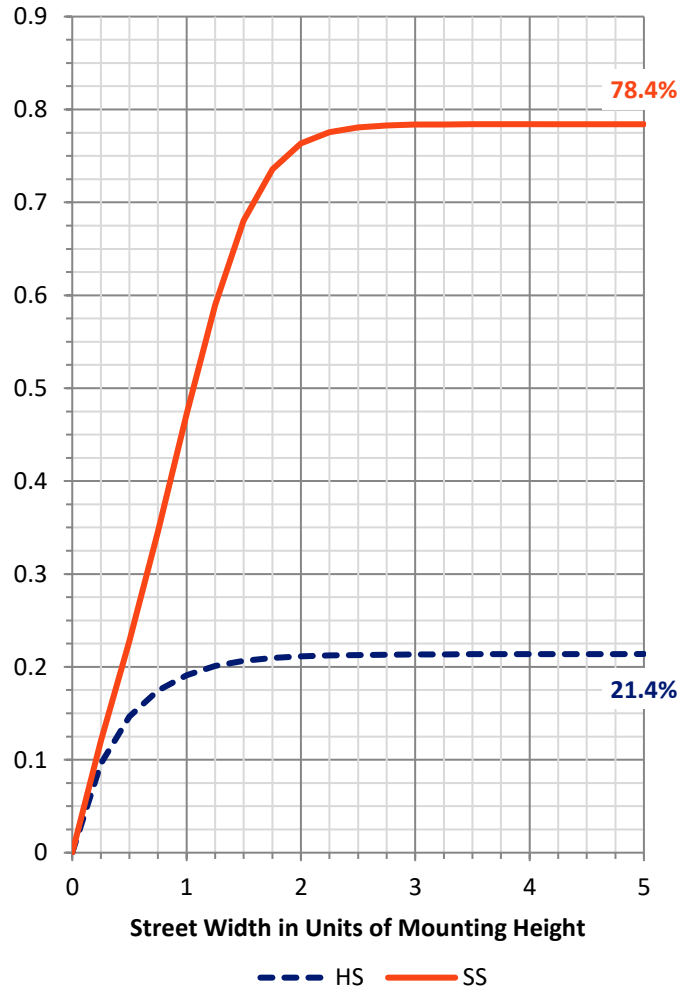
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1348.8	0.0	1348.8
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	4912.2	0.0	4912.2
	% Fixture	78.5	0.0	78.5
Total	Lumens	6261.0	0.0	6261.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.1	1.7
10°-20°	346.0	5.5
20°-30°	561.5	9.0
30°-40°	861.8	13.8
40°-50°	1376.3	22.0
50°-60°	1927.1	30.8
60°-70°	988.1	15.8
70°-80°	95.1	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°	6261.0	100.0
0°-180°	6261.0	100.0

Coefficient of Utilization



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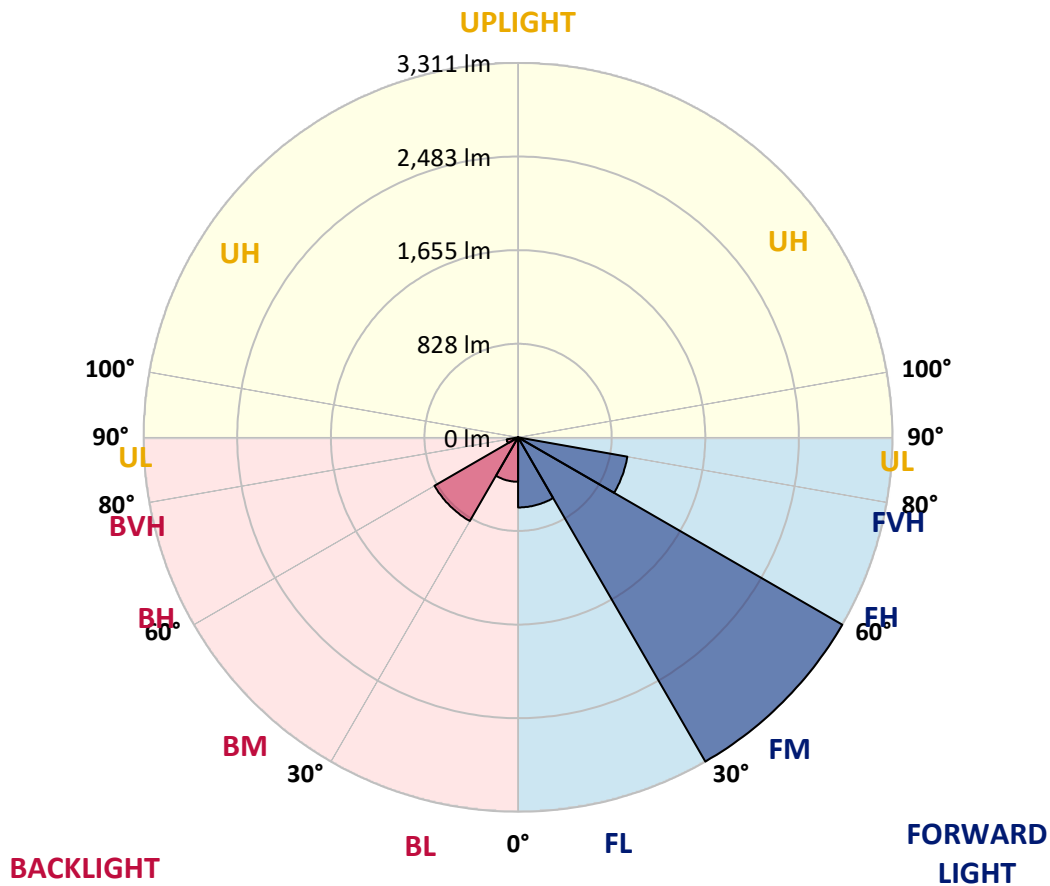
CATALOG NUMBER: GWS-SA2D-740-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	619.9	9.9			
FM (30°-60°)	3311.0	52.9			
FH (60°-80°)	981.3	15.7			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	392.8	6.3	B1/500		
BM (30°-60°)	854.2	13.6	B1/1000		
BH (60°-80°)	101.9	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°	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8
2.5°	1181.9	1179.3	1171.0	1142.5	1124.9	1097.3	1077.2	1051.3	1022.8	1005.2	987.7
5°	1307.4	1300.7	1278.1	1212.8	1162.6	1108.2	1064.7	1017.0	965.9	932.4	901.5
7.5°	1427.9	1417.9	1387.8	1277.3	1201.1	1123.3	1061.3	991.9	919.9	869.7	831.1
10°	1546.0	1523.4	1475.6	1340.0	1237.1	1143.4	1070.5	991.0	906.5	842.9	800.2
12.5°	1643.0	1626.3	1561.0	1399.5	1267.2	1147.5	1058.0	984.3	927.4	884.7	845.4
15°	1726.7	1708.3	1646.4	1453.0	1293.2	1130.8	1005.2	940.8	950.0	966.7	933.3
17.5°	1803.8	1784.5	1717.5	1497.4	1303.2	1089.8	931.6	900.6	951.7	1014.5	1001.9
20°	1883.3	1861.5	1779.5	1533.4	1299.9	1025.3	857.1	866.3	938.3	1010.3	1017.0
22.5°	1976.2	1953.6	1858.2	1579.4	1297.4	948.3	792.6	836.2	913.2	974.3	986.0
25°	2099.2	2072.4	1967.8	1647.2	1304.1	878.0	746.6	806.9	870.5	925.7	932.4
27.5°	2261.6	2227.3	2094.2	1730.9	1318.3	822.8	726.5	766.7	816.1	865.5	871.3
30°	2473.4	2429.8	2239.0	1803.8	1311.6	784.3	713.1	726.5	755.8	796.0	796.8
32.5°	2721.1	2661.7	2401.4	1866.5	1253.8	755.8	694.7	685.5	692.2	723.2	729.0
35°	3012.4	2935.4	2580.5	1926.0	1148.4	700.6	661.2	630.3	627.8	642.8	657.1
37.5°	3346.4	3254.3	2806.5	2002.1	1023.7	642.8	611.9	580.9	567.5	575.0	596.8
40°	3654.4	3552.3	3042.5	2094.2	896.4	590.9	554.1	522.3	506.4	508.9	535.7
42.5°	4016.0	3910.5	3331.3	2214.7	791.0	555.8	493.8	461.2	440.3	452.0	483.0
45°	4565.0	4445.3	3752.3	2319.3	707.3	547.4	441.1	395.1	385.0	405.1	441.9
47.5°	5315.0	5168.5	4330.7	2383.0	636.1	554.9	404.3	341.5	344.0	366.6	403.4
50°	6059.1	5900.9	4999.4	2299.3	577.5	539.9	385.9	299.6	315.6	335.6	369.1
52.5°	6570.5	6364.6	5325.0	2057.4	524.0	483.0	384.2	260.3	290.4	297.1	325.6
55°	6590.6	6337.0	5158.5	1622.1	451.1	407.6	366.6	227.7	262.8	265.3	289.6
57.5°	5777.0	5547.7	4508.1	1114.1	400.9	298.8	292.1	199.2	215.9	236.9	251.9
60°	4395.1	4200.1	3371.5	510.6	304.7	190.0	200.0	171.6	161.5	192.5	207.6
62.5°	2691.8	2567.1	2022.2	226.0	194.2	101.3	121.4	136.4	121.4	133.1	145.6
65°	1068.9	1013.6	767.5	96.3	79.5	51.1	55.2	79.5	85.4	93.7	105.5
67.5°	185.8	175.8	128.9	42.7	32.6	31.0	26.8	36.8	51.9	57.8	67.0
70°	24.3	23.4	20.9	17.6	16.7	15.1	11.7	23.4	35.2	36.8	42.7
72.5°	5.9	5.0	5.0	4.2	5.0	1.7	1.7	12.6	25.1	25.9	30.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	15.9	17.6	20.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
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°	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8
2.5°	973.4	956.7	950.8	942.5	931.6	934.9	919.9	914.8	922.4	932.4	929.9
5°	884.7	866.3	853.7	834.5	831.1	823.6	818.6	811.9	820.3	832.0	834.5
7.5°	814.4	798.5	786.0	780.1	775.9	772.6	762.5	757.5	757.5	762.5	766.7
10°	784.3	772.6	770.0	771.7	778.4	777.6	768.4	761.7	753.3	749.1	754.1
12.5°	826.1	806.9	803.5	804.4	812.7	811.9	801.9	793.5	791.8	793.5	809.4
15°	897.3	868.0	846.2	842.0	846.2	844.5	837.0	832.0	834.5	858.8	885.6
17.5°	960.9	915.7	876.3	861.3	860.4	857.9	850.4	848.7	861.3	906.5	945.8
20°	979.3	934.9	878.9	859.6	855.4	852.9	844.5	847.1	863.0	917.4	950.8
22.5°	955.0	912.3	853.7	834.5	831.1	830.3	821.9	825.3	838.7	886.4	914.0
25°	909.0	873.0	811.9	795.2	795.2	793.5	786.0	787.6	796.0	837.8	864.6
27.5°	852.9	818.6	767.5	750.8	753.3	755.8	746.6	744.1	750.8	790.1	806.0
30°	788.5	764.2	724.0	708.9	708.1	718.2	705.6	702.2	711.5	742.4	745.8
32.5°	725.7	714.0	685.5	673.8	674.6	676.3	669.6	669.6	678.0	694.7	693.9
35°	664.6	657.1	652.0	643.7	642.8	639.5	639.5	641.1	650.4	656.2	645.3
37.5°	606.0	613.5	619.4	611.0	604.3	604.3	604.3	611.9	620.2	617.7	599.3
40°	554.1	570.0	588.4	579.2	563.3	562.5	565.8	578.4	590.9	575.9	559.1
42.5°	509.7	529.8	555.8	550.8	533.2	530.7	533.2	549.1	559.1	539.9	521.5
45°	466.2	491.3	522.3	522.3	503.0	500.5	501.4	522.3	528.2	505.6	482.1
47.5°	429.4	457.0	489.6	489.6	473.7	468.7	472.9	494.7	498.9	467.1	445.3
50°	394.2	424.4	460.4	457.8	447.0	442.8	450.3	473.7	468.7	433.6	411.0
52.5°	349.9	381.7	431.1	433.6	427.7	428.5	437.8	452.8	438.6	395.9	376.7
55°	309.7	342.3	391.7	405.1	405.1	404.3	408.5	420.2	408.5	357.4	334.0
57.5°	266.2	293.8	334.8	338.2	340.7	331.5	337.3	353.2	347.4	303.8	290.4
60°	218.5	241.9	265.3	267.8	257.0	237.7	248.6	267.0	271.2	238.5	223.5
62.5°	154.8	177.4	205.1	205.1	194.2	174.9	189.2	205.1	199.2	165.7	156.5
65°	115.5	136.4	157.4	166.6	157.4	144.0	154.8	166.6	157.4	129.7	116.3
67.5°	74.5	88.7	101.3	108.8	110.5	108.8	113.8	110.5	99.6	81.2	73.7
70°	45.2	52.7	59.4	66.1	71.1	73.7	76.2	68.6	57.8	47.7	45.2
72.5°	32.6	39.3	45.2	50.2	56.1	57.8	57.8	52.7	42.7	33.5	31.0
75°	22.6	28.5	33.5	36.8	41.9	43.5	43.5	39.3	31.8	24.3	21.8
77.5°	0.8	5.9	5.9	5.0	6.7	8.4	8.4	10.0	9.2	6.7	5.9
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8
2.5°	934.9	965.1	973.4	1004.4	1032.0	1059.7	1093.1	1113.2	1143.4	1164.3	1176.0
5°	842.9	868.0	898.1	944.1	991.9	1044.6	1108.2	1163.4	1232.9	1284.0	1300.7
7.5°	775.9	808.5	843.7	901.5	966.7	1037.1	1126.6	1217.0	1323.3	1392.8	1437.1
10°	763.4	796.8	843.7	900.6	969.3	1049.6	1159.3	1276.4	1409.5	1494.1	1544.3
12.5°	823.6	859.6	879.7	905.6	957.5	1047.1	1187.7	1336.7	1493.2	1585.3	1638.9
15°	912.3	944.1	911.5	878.9	912.3	1020.3	1203.6	1386.9	1566.9	1673.2	1728.4
17.5°	973.4	976.0	904.8	835.3	844.5	971.8	1209.5	1437.1	1645.6	1756.9	1814.6
20°	967.6	947.5	875.5	798.5	770.0	909.0	1202.8	1481.5	1725.1	1841.4	1898.3
22.5°	922.4	898.9	837.8	762.5	707.3	834.5	1191.1	1521.7	1797.9	1930.1	1983.7
25°	868.0	842.9	792.6	726.5	667.1	762.5	1181.9	1576.9	1890.0	2045.6	2087.5
27.5°	804.4	782.6	739.9	692.2	650.4	708.1	1179.3	1649.7	2001.3	2186.3	2215.6
30°	742.4	722.3	688.9	661.2	643.7	676.3	1171.0	1727.6	2134.4	2347.8	2379.6
32.5°	683.0	662.9	642.0	637.8	638.6	664.6	1142.5	1804.6	2292.6	2582.2	2605.6
35°	631.9	608.5	600.1	610.2	628.6	644.5	1062.2	1868.2	2462.5	2837.5	2856.7
37.5°	583.4	560.0	559.1	583.4	603.5	613.5	967.6	1931.0	2691.8	3096.9	3121.2
40°	539.0	515.6	524.0	553.3	569.2	574.2	852.9	2026.4	2934.5	3370.6	3357.2
42.5°	501.4	477.1	482.1	519.8	534.0	547.4	747.4	2105.9	3168.1	3630.1	3625.9
45°	464.5	446.1	442.8	483.8	496.3	549.9	670.4	2167.0	3468.6	3960.7	3967.4
47.5°	428.5	414.3	415.2	432.7	463.7	562.5	605.2	2207.2	3904.6	4484.7	4368.3
50°	395.9	385.0	394.2	374.1	442.8	546.6	549.1	2198.8	4391.8	4986.9	4753.4
52.5°	359.9	357.4	361.6	313.0	409.3	482.1	496.3	2087.5	4620.3	5330.1	5197.0
55°	323.1	322.2	288.8	250.3	342.3	385.0	425.2	1741.8	4612.7	5512.5	5674.1
57.5°	279.6	272.9	219.3	204.2	266.2	267.8	387.5	1140.8	4087.9	5075.6	5410.4
60°	211.8	206.7	160.7	165.7	185.8	171.6	308.9	568.3	3055.1	3954.0	4331.5
62.5°	146.5	139.8	119.7	128.1	119.7	97.9	189.2	281.2	1850.6	2496.8	2839.1
65°	107.1	99.6	82.0	70.3	56.1	56.1	72.0	108.0	716.5	1061.3	1279.8
67.5°	66.1	62.8	48.5	35.2	34.3	36.8	37.7	53.6	115.5	184.1	225.2
70°	42.7	39.3	32.6	22.6	20.9	21.8	22.6	25.1	29.3	31.8	38.5
72.5°	29.3	27.6	23.4	12.6	10.0	10.9	11.7	11.7	14.2	13.4	15.9
75°	20.9	19.3	16.7	5.9	3.3	4.2	5.0	4.2	5.0	3.3	4.2
77.5°	5.9	5.9	4.2	0.8	0.0	0.8	1.7	1.7	0.8	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	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°	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8
2.5°	1206.1	1225.4	1232.9	1222.0	1231.2	1216.2	1210.3	1187.7	1186.0	1181.9
5°	1368.5	1412.0	1438.0	1453.9	1435.5	1415.4	1385.2	1333.4	1317.4	1307.4
7.5°	1528.4	1596.2	1640.5	1661.5	1656.4	1615.4	1561.0	1474.0	1443.0	1427.9
10°	1667.3	1750.2	1803.8	1829.7	1818.8	1782.8	1705.0	1596.2	1555.2	1546.0
12.5°	1764.4	1840.6	1877.4	1900.0	1900.8	1886.6	1813.0	1703.3	1654.8	1643.0
15°	1825.5	1858.2	1859.0	1872.4	1895.8	1927.6	1893.3	1796.2	1744.3	1726.7
17.5°	1864.0	1828.0	1791.2	1794.5	1833.0	1917.6	1952.7	1878.2	1823.0	1803.8
20°	1891.6	1777.8	1709.2	1710.0	1749.3	1877.4	1993.8	1957.8	1900.8	1883.3
22.5°	1909.2	1733.4	1635.5	1633.0	1674.9	1829.7	2031.4	2052.3	1996.3	1976.2
25°	1945.2	1712.5	1591.2	1605.4	1642.2	1814.6	2082.5	2177.9	2126.0	2099.2
27.5°	2009.7	1733.4	1587.0	1619.6	1661.5	1859.0	2171.2	2345.3	2291.7	2261.6
30°	2121.0	1812.1	1651.4	1696.6	1746.8	1975.3	2320.2	2578.8	2501.8	2473.4
32.5°	2300.1	1975.3	1850.6	1947.7	1996.3	2166.2	2543.7	2840.8	2778.0	2721.1
35°	2547.0	2347.8	2333.6	2559.6	2547.9	2527.8	2818.2	3162.2	3067.6	3012.4
37.5°	2886.8	2947.1	3052.6	3276.9	3269.4	3116.2	3179.0	3466.0	3417.5	3346.4
40°	3311.2	3439.3	3618.4	3939.8	3839.4	3646.8	3621.7	3777.4	3738.1	3654.4
42.5°	3561.5	3782.4	4123.9	4412.7	4332.4	3995.9	3967.4	4193.4	4107.2	4016.0
45°	3677.8	4062.0	4731.6	5122.5	4878.9	4227.7	4216.8	4735.8	4687.2	4565.0
47.5°	3731.4	4344.1	5443.1	6034.8	5579.5	4431.1	4391.8	5522.6	5459.0	5315.0
50°	3790.8	4733.3	6300.2	7092.0	6425.7	4661.3	4689.8	6255.8	6229.0	6059.1
52.5°	3921.4	5145.1	7355.6	8300.6	7451.9	5022.0	5201.2	6947.2	6766.4	6570.5
55°	4117.2	5593.7	8453.8	9535.2	8499.0	5506.7	5754.4	7314.6	6807.4	6590.6
57.5°	3900.5	5705.9	9104.1	10397.3	8963.5	5508.3	5286.5	6677.6	5987.1	5777.0
60°	3095.3	5308.3	8853.9	10210.7	8567.6	4891.5	4047.8	5213.7	4535.7	4395.1
62.5°	2092.5	4452.0	7794.2	8635.4	7333.0	3847.7	2630.7	3390.7	2808.2	2691.8
65°	1146.7	3321.2	6297.6	6532.8	5739.4	2687.6	1353.4	1471.5	1120.8	1068.9
67.5°	316.4	2311.8	4633.7	4334.0	4026.8	1750.2	349.9	262.8	187.5	185.8
70°	79.5	1529.2	2776.4	2861.7	2469.2	1120.8	67.0	31.8	25.1	24.3
72.5°	33.5	657.9	1317.4	1514.1	1263.9	518.9	24.3	9.2	7.5	5.9
75°	4.2	52.7	112.2	169.9	116.3	56.1	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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