

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: P633096

Luminaire Tested: GWS-SA2E-722-U-SLR-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633096
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-41)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-722-U-SLR-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10176.4 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

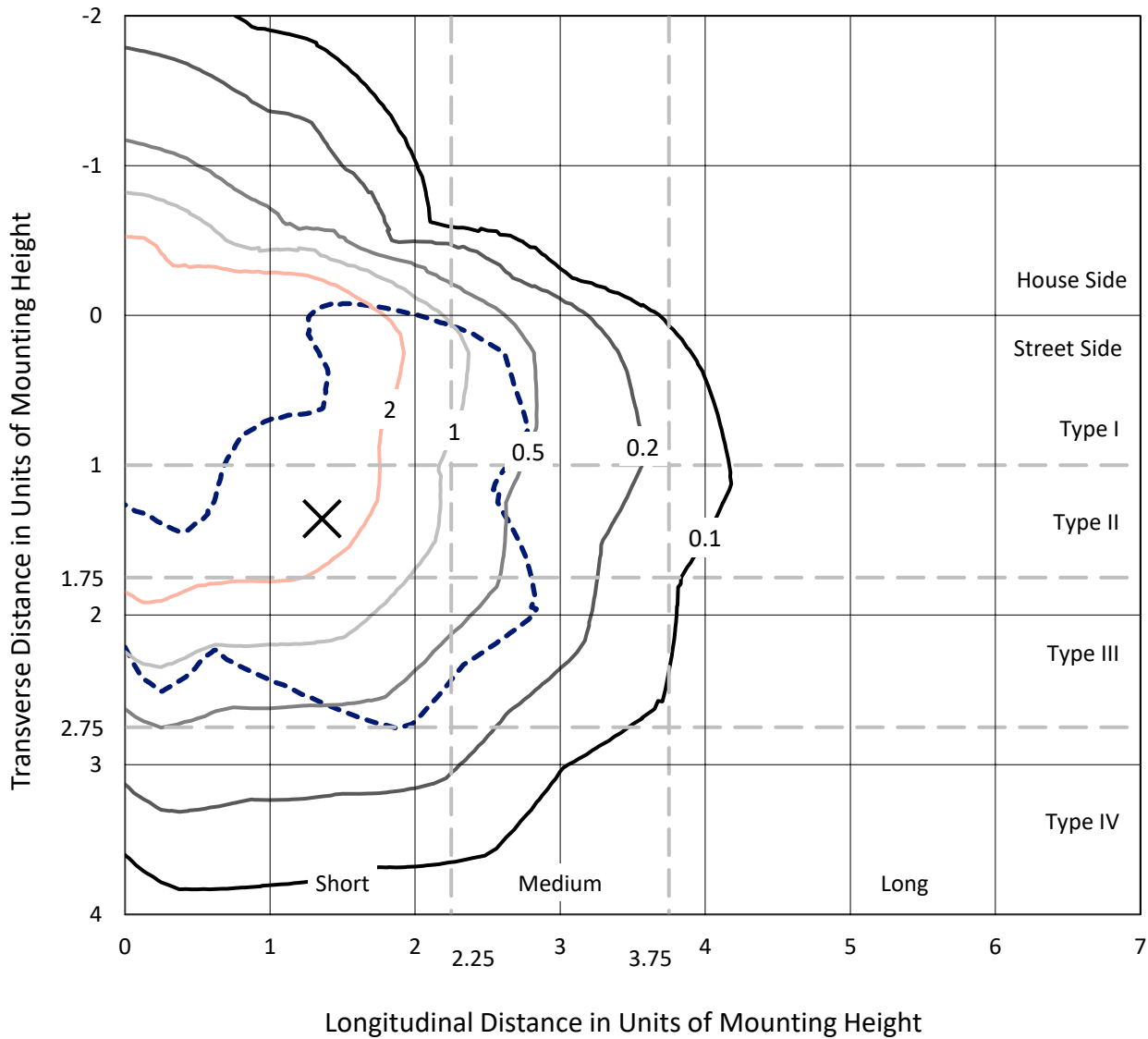
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

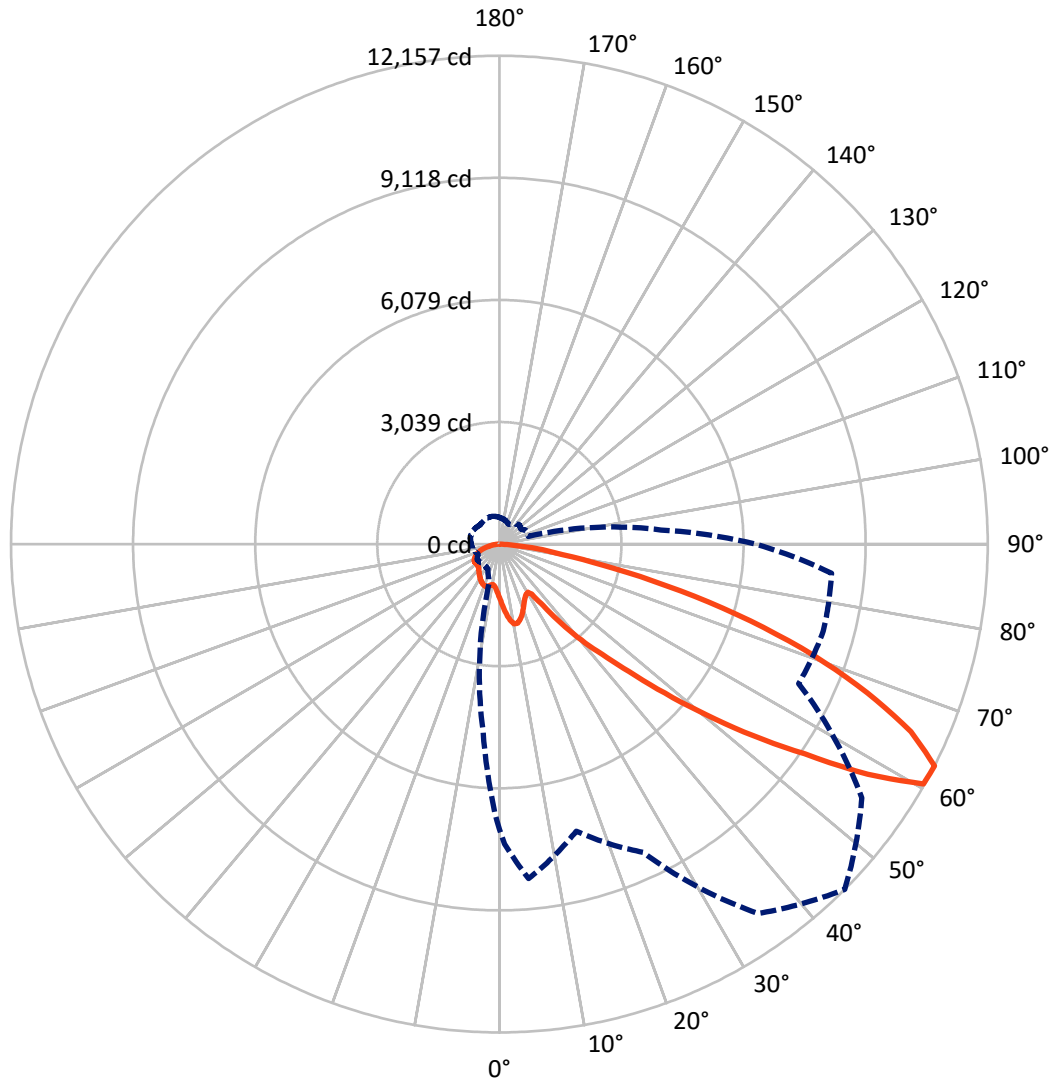
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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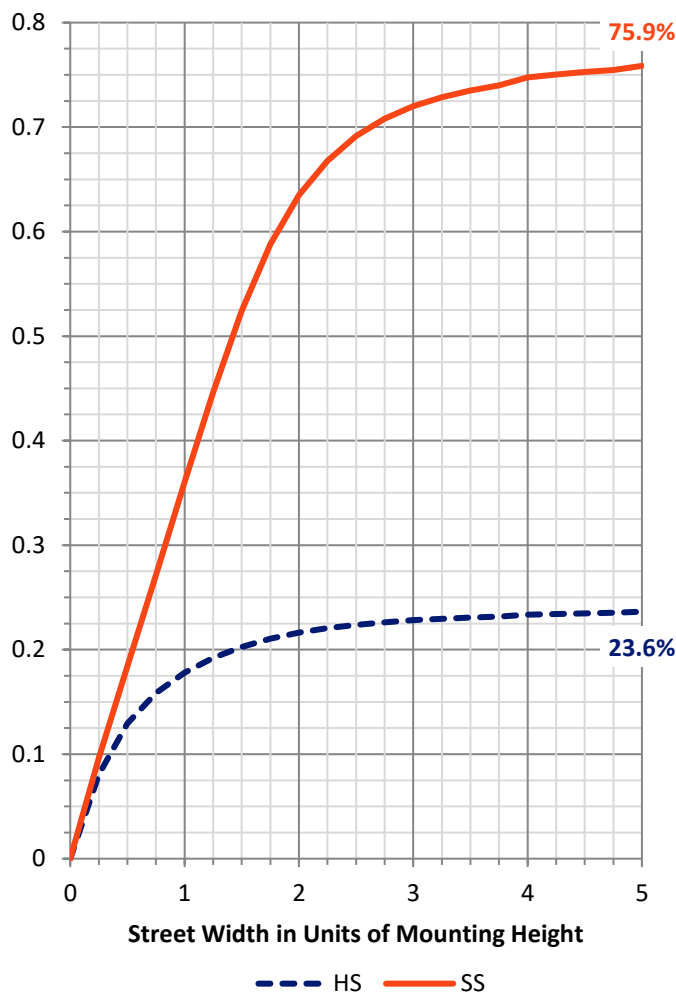
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2428.3	0.0	2428.3
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	7748.1	0.0	7748.1
	% Fixture	76.1	0.0	76.1
Total	Lumens	10176.4	0.0	10176.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.9	1.3
10°-20°	413.5	4.1
20°-30°	642.3	6.3
30°-40°	872.0	8.6
40°-50°	1382.1	13.6
50°-60°	2438.0	24.0
60°-70°	2712.6	26.7
70°-80°	1375.7	13.5
80°-90°	208.3	2.0
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°	10176.4	100.0
0°-180°	10176.4	100.0

Coefficient of Utilization



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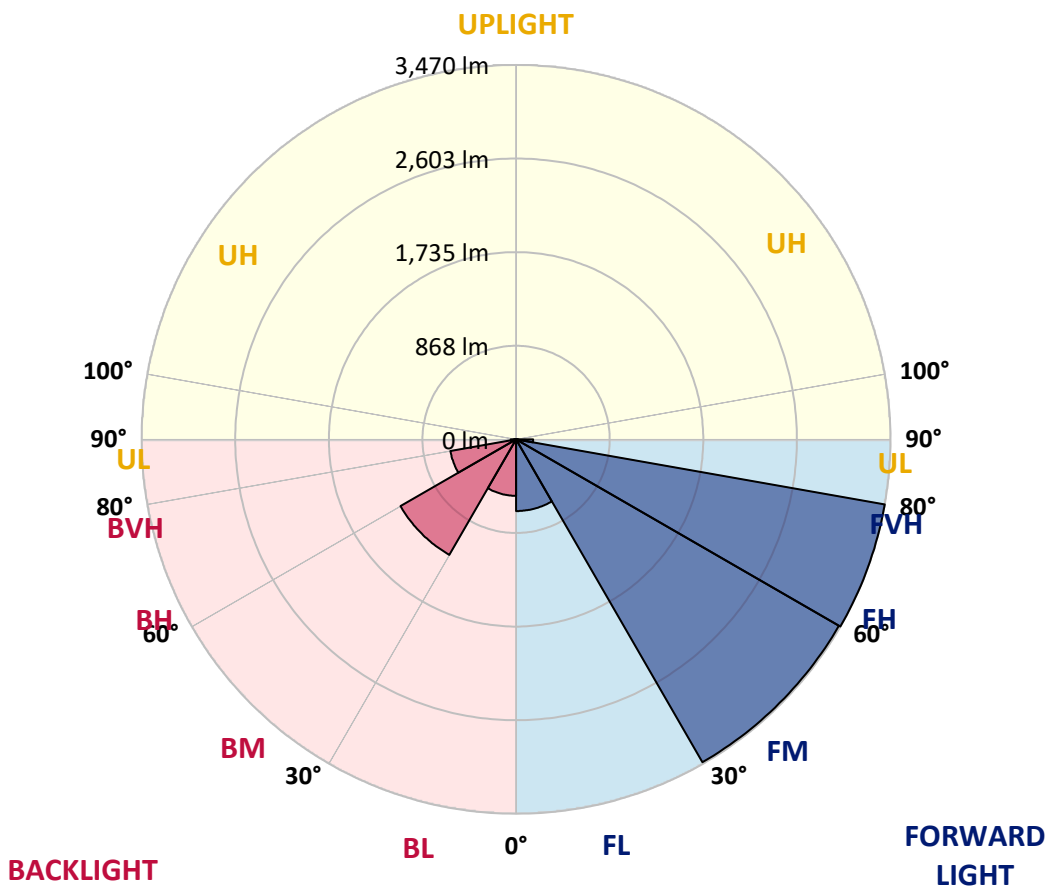
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	664.4	6.5			
FM (30°-60°)	3455.3	34.0			
FH (60°-80°)	3470.2	34.1			G2/5000
FVH (80°-90°)	158.1	1.6			G2/225
BL (0°-30°)	523.2	5.1	B2/1000		
BM (30°-60°)	1236.7	12.2	B2/2500		
BH (60°-80°)	618.1	6.1	B2/1000		G2/1000
BVH (80°-90°)	50.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6
2.5°	1451.5	1450.8	1465.4	1487.8	1508.6	1517.8	1533.2	1531.7	1519.3	1503.2	1497.8
5°	1565.6	1568.7	1594.1	1643.4	1698.1	1721.2	1731.2	1727.4	1705.0	1676.5	1626.4
7.5°	1668.8	1674.2	1713.5	1787.5	1855.3	1886.1	1910.7	1906.1	1873.8	1820.6	1746.6
10°	1744.3	1750.5	1797.5	1884.5	1960.0	1987.0	2018.6	2020.1	1991.6	1920.0	1844.5
12.5°	1819.8	1826.0	1869.9	1949.3	1998.6	1999.3	2017.8	2027.9	2029.4	1996.3	1920.8
15°	1898.4	1903.8	1943.9	1988.6	1986.2	1943.1	1943.1	1962.4	2004.7	2028.6	1976.2
17.5°	1965.4	1972.4	2003.2	1988.6	1920.0	1842.2	1832.9	1857.6	1931.5	2023.2	2017.8
20°	2020.9	2026.3	2043.3	1946.2	1821.4	1719.7	1701.9	1730.5	1830.6	1990.1	2049.4
22.5°	2074.1	2077.2	2067.9	1890.7	1715.0	1598.7	1577.1	1607.2	1715.0	1931.5	2076.4
25°	2137.3	2134.2	2090.3	1832.9	1618.0	1503.2	1480.8	1514.7	1627.2	1853.7	2105.7
27.5°	2210.4	2198.9	2109.5	1770.5	1543.2	1432.3	1416.9	1453.1	1557.9	1782.1	2128.8
30°	2272.9	2250.5	2112.6	1715.0	1504.7	1402.2	1393.0	1426.9	1524.0	1733.5	2158.1
32.5°	2342.2	2311.4	2130.3	1700.4	1526.3	1474.7	1487.0	1489.3	1533.2	1719.7	2202.0
35°	2441.6	2401.5	2178.9	1742.8	1748.2	1835.2	1879.9	1819.8	1672.7	1750.5	2285.2
37.5°	2591.8	2541.0	2277.5	1926.1	2206.6	2401.5	2509.4	2372.2	2096.4	1866.8	2410.8
40°	2774.4	2709.7	2403.8	2265.2	2635.0	2947.0	3138.9	2937.8	2532.5	2157.3	2587.2
42.5°	3029.4	2961.6	2648.8	2598.0	3031.8	3496.3	3746.7	3447.0	2917.0	2532.5	2870.0
45°	3474.0	3408.5	3098.0	2931.6	3496.3	4172.8	4524.1	4107.3	3307.6	2909.3	3398.5
47.5°	4295.3	4218.3	3765.2	3301.4	4026.4	5051.1	5542.7	4935.6	3713.6	3340.7	4286.1
50°	5281.5	5207.5	4602.7	3739.0	4612.0	5990.3	6673.7	5908.7	4181.3	3865.4	5347.0
52.5°	6468.0	6454.1	5797.7	4292.2	5221.4	6991.9	7928.8	6986.5	4693.6	4571.9	6548.9
55°	7537.4	7673.0	7315.5	5135.9	6008.8	8250.1	9219.3	8162.3	5388.6	5739.9	7956.5
57.5°	8113.7	8478.1	9027.5	6857.1	7153.7	9754.0	10811.9	9597.6	6582.8	7684.6	9261.7
60°	7733.1	8146.1	9141.5	8153.0	8289.4	10959.0	12126.3	10804.2	7755.4	9034.4	9187.7
62.5°	7099.8	7470.4	8355.6	7396.4	8465.0	11224.1	12157.1	11014.5	8221.6	8349.5	8299.4
65°	6348.6	6722.3	7659.9	6456.5	7906.5	10594.6	11260.3	10395.8	7384.1	7543.6	7562.1
67.5°	5350.8	5696.0	6650.6	5740.7	7206.9	9670.8	9883.5	9514.4	6800.1	7054.3	6788.5
70°	3997.9	4309.2	5152.1	4665.1	6075.1	8467.4	8295.5	8350.2	6144.4	6397.1	5670.6
72.5°	2732.1	2966.3	3689.0	3665.8	4652.0	6778.5	6538.9	7057.4	5132.0	5467.2	4323.1
75°	1910.7	2093.3	2666.6	2896.2	3516.4	5024.2	4656.7	5282.3	4007.9	4486.4	3154.3
77.5°	1172.6	1293.6	1684.2	2145.7	2262.1	3438.6	2892.3	3974.8	2814.5	3272.1	2104.1
80°	586.3	644.9	818.2	1349.1	1500.1	2026.3	1597.2	2307.5	1904.6	2026.3	1164.2
82.5°	177.2	195.7	239.6	512.4	777.4	1166.5	943.8	1340.6	1040.1	950.0	458.4
85°	47.0	53.2	66.3	151.8	272.7	418.4	319.0	649.5	498.5	350.6	172.6
87.5°	3.9	3.9	3.1	3.1	1.5	0.0	0.0	46.2	93.2	53.2	30.0
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°	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6
2.5°	1470.8	1467.7	1436.1	1413.0	1386.1	1359.9	1332.9	1309.0	1282.0	1255.1	1247.4
5°	1589.5	1567.9	1500.9	1444.6	1389.1	1340.6	1298.2	1254.3	1218.9	1184.2	1171.1
7.5°	1694.2	1656.5	1559.4	1473.9	1396.8	1336.7	1274.3	1210.4	1160.3	1111.0	1098.7
10°	1789.0	1738.9	1616.4	1508.6	1423.0	1354.5	1281.3	1195.8	1123.3	1063.2	1047.1
12.5°	1859.1	1804.4	1665.7	1541.7	1444.6	1367.6	1295.1	1219.6	1143.4	1065.5	1047.8
15°	1914.6	1857.6	1706.6	1567.1	1445.4	1346.0	1275.9	1249.7	1225.8	1149.5	1117.2
17.5°	1959.3	1899.2	1742.0	1582.5	1424.6	1280.5	1219.6	1258.2	1319.0	1271.3	1210.4
20°	2000.1	1939.2	1769.0	1593.3	1378.4	1190.4	1156.5	1238.1	1329.8	1328.3	1273.6
22.5°	2044.8	1985.5	1808.3	1599.5	1313.6	1098.7	1118.7	1208.9	1283.6	1305.9	1272.0
25°	2101.8	2049.4	1863.0	1613.3	1240.4	1035.5	1091.0	1171.1	1233.5	1238.9	1218.9
27.5°	2168.1	2128.8	1944.6	1645.7	1169.6	1003.1	1058.6	1117.9	1175.0	1177.3	1153.4
30°	2240.5	2214.3	2020.1	1672.7	1116.4	993.1	1017.0	1064.8	1101.0	1107.2	1086.3
32.5°	2333.0	2309.8	2087.2	1654.9	1084.8	990.8	978.5	1003.1	1033.2	1033.2	1017.0
35°	2460.1	2427.7	2158.1	1587.1	1046.3	981.6	937.6	944.6	957.7	960.0	950.7
37.5°	2640.4	2587.2	2229.7	1453.1	983.1	948.4	890.7	882.2	886.8	893.0	890.7
40°	2863.8	2776.7	2334.5	1292.1	907.6	884.5	842.1	825.9	822.1	834.4	839.0
42.5°	3145.0	3011.7	2447.0	1141.8	839.0	811.3	785.1	771.2	765.1	785.9	798.2
45°	3594.2	3374.6	2554.8	993.1	800.5	748.9	731.2	721.2	724.2	748.9	764.3
47.5°	4370.0	3928.6	2657.3	899.1	797.4	704.2	682.6	684.9	693.4	719.6	738.1
50°	5351.6	4670.5	2725.9	859.8	806.7	677.2	648.7	661.1	674.2	699.6	721.2
52.5°	6350.9	5361.6	2644.2	838.3	805.9	678.0	617.1	654.1	660.3	685.7	708.8
55°	7038.2	5438.7	2284.4	805.1	793.6	708.8	592.5	651.0	654.9	678.0	698.8
57.5°	7300.1	5175.2	1742.0	814.4	756.6	732.7	581.7	629.5	657.2	677.2	698.8
60°	6983.4	4678.2	1058.6	838.3	697.3	731.2	588.6	590.2	637.9	671.8	693.4
62.5°	6386.3	4040.3	743.5	770.5	654.1	690.3	604.8	543.9	604.0	644.9	664.1
65°	5702.2	3289.9	567.1	663.4	633.3	627.2	610.2	503.1	557.8	597.9	614.8
67.5°	4989.5	2557.2	460.7	494.6	572.5	567.1	557.8	466.9	503.1	531.6	550.9
70°	4091.9	1789.0	389.1	371.4	490.8	508.5	487.7	421.4	433.0	462.3	477.7
72.5°	2993.2	1114.9	319.7	306.6	394.5	444.6	433.8	371.4	376.8	404.5	416.8
75°	2152.7	637.9	256.6	252.7	301.2	380.6	359.0	319.7	325.9	346.7	355.2
77.5°	1368.3	355.2	198.0	203.4	215.7	284.3	306.6	273.5	273.5	285.8	292.8
80°	732.7	203.4	144.8	147.2	151.0	217.3	241.9	211.9	211.9	203.4	211.9
82.5°	298.9	117.1	99.4	92.5	100.9	148.7	169.5	134.8	141.0	127.1	130.2
85°	98.6	58.6	49.3	48.5	47.8	65.5	81.7	67.0	80.1	50.9	53.2
87.5°	13.1	10.8	6.2	4.6	5.4	2.3	4.6	5.4	5.4	3.9	3.9
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°	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6
2.5°	1242.0	1235.8	1213.5	1218.9	1215.0	1208.9	1215.0	1203.5	1212.7	1215.8	1235.0
5°	1161.1	1146.4	1124.9	1114.1	1111.8	1105.6	1106.4	1101.0	1102.5	1115.6	1137.2
7.5°	1088.7	1074.8	1057.8	1050.1	1043.2	1036.3	1035.5	1034.7	1040.9	1052.4	1073.3
10°	1036.3	1028.6	1021.6	1024.7	1021.6	1018.5	1013.2	1013.2	1023.2	1044.0	1069.4
12.5°	1036.3	1034.7	1036.3	1045.5	1044.7	1045.5	1038.6	1042.4	1070.2	1105.6	1141.8
15°	1091.7	1079.4	1079.4	1084.0	1082.5	1082.5	1082.5	1098.7	1161.9	1216.6	1255.1
17.5°	1159.5	1123.3	1107.9	1105.6	1104.8	1104.8	1107.9	1142.6	1241.2	1299.0	1321.3
20°	1206.5	1138.0	1112.5	1102.5	1103.3	1104.8	1114.1	1161.9	1270.5	1299.8	1294.4
22.5°	1215.0	1126.4	1095.6	1081.0	1083.3	1084.8	1098.7	1149.5	1230.4	1235.0	1224.3
25°	1175.7	1094.1	1060.9	1049.4	1052.4	1051.7	1064.0	1101.0	1158.8	1157.2	1151.1
27.5°	1117.2	1042.4	1017.8	1010.1	1015.5	1009.3	1013.2	1041.7	1086.3	1084.8	1082.5
30°	1057.1	992.4	970.0	966.2	973.1	963.8	964.6	988.5	1019.3	1017.8	1017.0
32.5°	997.0	942.3	922.2	922.2	929.2	919.2	920.7	941.5	962.3	956.1	956.1
35°	940.0	901.4	885.3	882.2	887.6	880.6	883.7	903.0	910.7	902.2	896.8
37.5°	889.9	872.9	856.8	846.0	846.7	847.5	856.8	871.4	866.8	854.4	847.5
40°	843.7	843.7	828.2	808.2	805.9	811.3	826.7	842.9	829.8	815.9	807.4
42.5°	810.5	817.5	802.8	782.8	778.2	787.4	804.4	815.9	800.5	785.1	773.5
45°	779.7	796.7	786.6	764.3	758.1	768.9	790.5	795.1	774.3	759.7	751.2
47.5°	758.1	781.2	774.3	752.7	743.5	758.9	781.2	780.5	754.3	738.9	731.9
50°	742.7	772.0	771.2	752.7	742.7	762.0	782.0	772.0	743.5	727.3	720.4
52.5°	730.4	771.2	776.6	765.8	758.9	775.9	788.2	768.9	735.8	718.8	713.4
55°	725.0	774.3	778.2	768.1	762.0	777.4	788.2	775.1	735.8	720.4	715.8
57.5°	726.5	770.5	771.2	757.4	746.6	765.8	782.8	778.9	744.3	726.5	721.2
60°	717.3	749.7	751.2	729.6	717.3	740.4	770.5	768.1	740.4	721.9	711.9
62.5°	686.5	715.0	715.8	695.7	678.0	711.1	744.3	743.5	718.1	699.6	688.0
65°	634.9	664.9	672.6	653.3	639.5	674.9	709.6	708.1	682.6	665.7	654.1
67.5°	570.9	603.3	617.9	604.8	599.4	631.8	664.1	663.4	642.6	626.4	616.4
70°	493.1	520.1	544.7	544.7	540.9	577.8	612.5	609.4	590.2	577.8	570.1
72.5°	428.4	449.2	456.9	464.6	476.1	514.7	543.9	546.3	532.4	526.2	532.4
75°	364.4	377.5	384.5	378.3	398.3	438.4	476.9	480.8	466.1	456.1	458.4
77.5°	299.7	314.3	321.3	307.4	305.9	356.7	403.7	412.2	399.9	384.5	389.1
80°	216.5	235.8	247.3	238.1	235.0	257.3	322.1	331.3	319.7	307.4	314.3
82.5°	132.5	143.3	146.4	155.6	174.9	184.1	207.3	238.1	229.6	218.8	238.1
85°	52.4	62.4	69.3	78.6	91.7	108.6	127.9	152.6	138.7	134.1	157.9
87.5°	3.1	0.8	0.0	1.5	13.1	25.4	54.7	75.5	63.2	67.8	81.7
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°	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6	1350.6
2.5°	1250.5	1270.5	1297.5	1319.8	1348.3	1375.3	1403.0	1430.7	1445.4	1451.5
5°	1161.9	1198.8	1242.0	1289.7	1345.2	1403.8	1463.1	1524.0	1562.5	1565.6
7.5°	1108.7	1161.9	1221.2	1281.3	1349.8	1430.7	1524.7	1618.7	1658.0	1668.8
10°	1125.6	1185.0	1232.0	1288.2	1363.7	1464.6	1575.6	1685.8	1731.2	1744.3
12.5°	1193.4	1205.0	1219.6	1271.3	1363.7	1493.9	1628.0	1759.0	1807.5	1819.8
15°	1249.7	1194.2	1168.0	1222.7	1345.2	1519.3	1683.5	1828.3	1886.9	1898.4
17.5°	1254.3	1158.8	1101.8	1151.1	1312.9	1537.1	1736.6	1905.3	1954.7	1965.4
20°	1207.3	1121.0	1047.1	1077.1	1268.9	1544.8	1775.1	1961.6	2010.1	2020.9
22.5°	1154.1	1090.2	1010.1	1008.5	1215.8	1553.2	1821.4	2014.8	2067.1	2074.1
25°	1104.1	1047.8	980.0	958.5	1154.1	1569.4	1883.8	2094.9	2134.9	2137.3
27.5°	1045.5	1002.4	956.1	935.3	1100.2	1600.2	1976.2	2190.4	2214.3	2210.4
30°	992.4	960.0	939.2	933.0	1066.3	1623.4	2064.1	2284.4	2286.0	2272.9
32.5°	936.1	923.8	923.8	943.8	1038.6	1618.0	2135.7	2376.1	2361.5	2342.2
35°	886.0	888.3	904.5	951.5	992.4	1564.0	2204.3	2490.9	2469.3	2441.6
37.5°	838.3	856.0	879.1	924.6	931.5	1483.9	2284.4	2653.5	2626.5	2591.8
40°	797.4	824.4	851.4	873.7	866.8	1369.9	2396.1	2844.5	2814.5	2774.4
42.5°	765.1	791.3	821.3	823.6	825.9	1251.2	2514.8	3078.8	3073.4	3029.4
45°	744.3	761.2	789.7	785.9	823.6	1120.2	2624.2	3436.3	3507.1	3474.0
47.5°	730.4	743.5	746.6	762.8	843.7	1003.1	2765.2	4135.8	4333.1	4295.3
50°	722.7	735.8	701.1	764.3	846.7	927.6	2960.1	5014.2	5331.6	5281.5
52.5°	721.9	718.8	666.4	780.5	829.8	881.4	3061.8	5655.2	6359.4	6468.0
55°	723.5	684.9	648.7	785.1	795.9	864.5	2721.3	5963.4	7307.8	7537.4
57.5°	709.6	648.0	658.7	766.6	731.9	909.9	2011.7	5853.2	7686.9	8113.7
60°	683.4	612.5	677.2	716.5	666.4	832.1	1385.3	5361.6	7293.9	7733.1
62.5°	645.6	587.9	674.9	651.8	642.6	681.1	952.3	4673.6	6670.6	7099.8
65°	603.3	567.8	638.7	589.4	594.8	523.9	673.4	3897.0	5926.4	6348.6
67.5°	557.8	555.5	585.5	524.7	502.3	415.3	490.8	3123.4	4970.2	5350.8
70°	506.2	523.1	532.4	466.1	407.6	325.9	364.4	2184.3	3666.6	3997.9
72.5°	454.6	456.1	469.2	405.3	305.1	261.2	273.5	1322.9	2490.9	2732.1
75°	402.2	387.5	399.9	329.8	227.3	214.2	211.1	817.5	1720.4	1910.7
77.5°	345.9	329.8	313.6	248.1	182.6	165.6	161.8	458.4	1055.5	1172.6
80°	281.2	259.6	234.2	181.8	133.3	118.7	117.9	223.4	526.2	586.3
82.5°	218.8	178.0	171.0	113.3	82.4	72.4	77.0	85.5	158.7	177.2
85°	153.3	129.4	90.9	45.5	37.0	30.0	29.3	25.4	42.4	47.0
87.5°	85.5	56.2	29.3	5.4	6.2	6.9	5.4	3.9	3.9	3.9
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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