

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: P632269

Luminaire Tested: GWS-SA2C-735-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632269
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-43)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2C-735-U-SLR-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7142 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

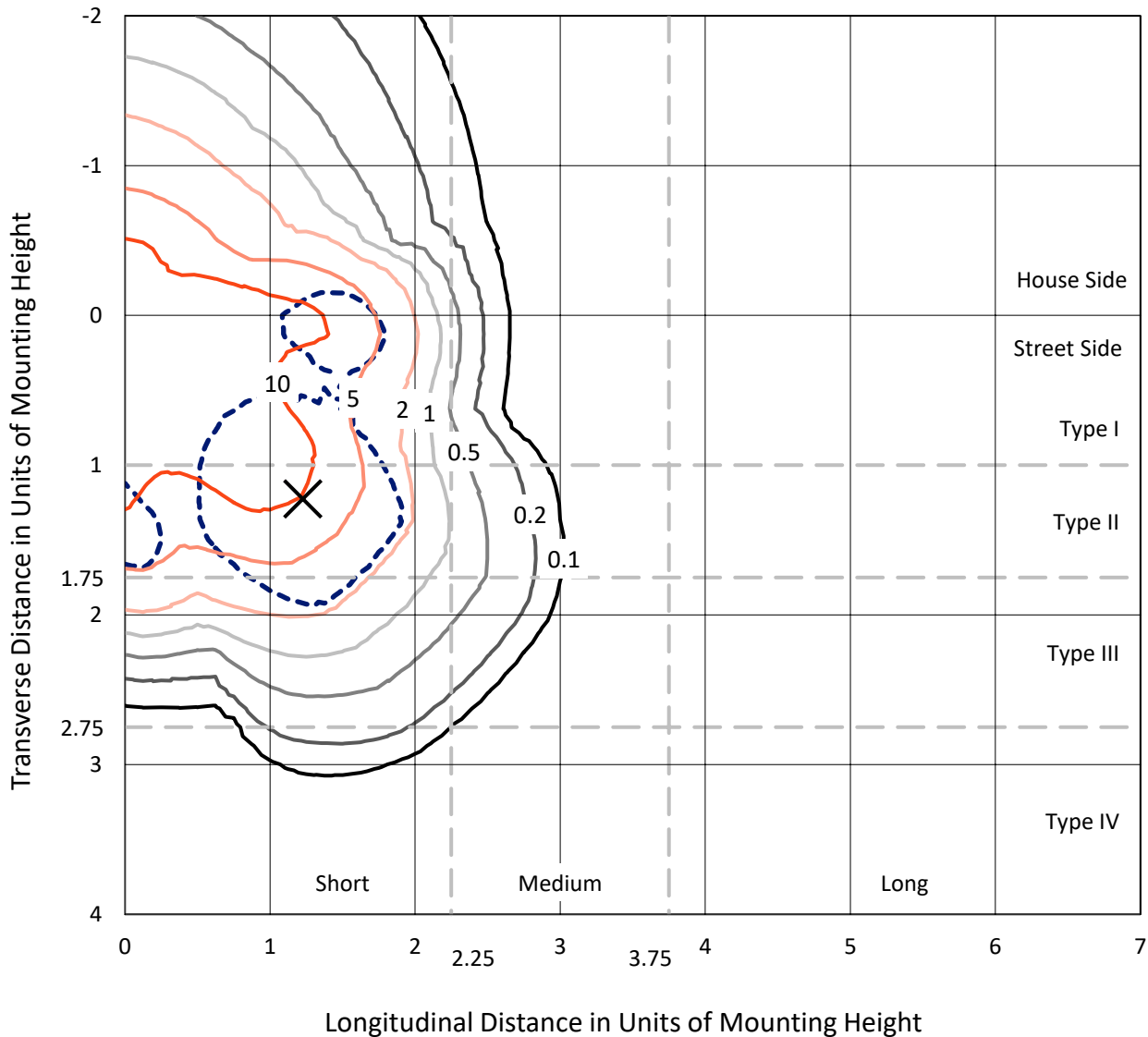
Input Watts (W): 63.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

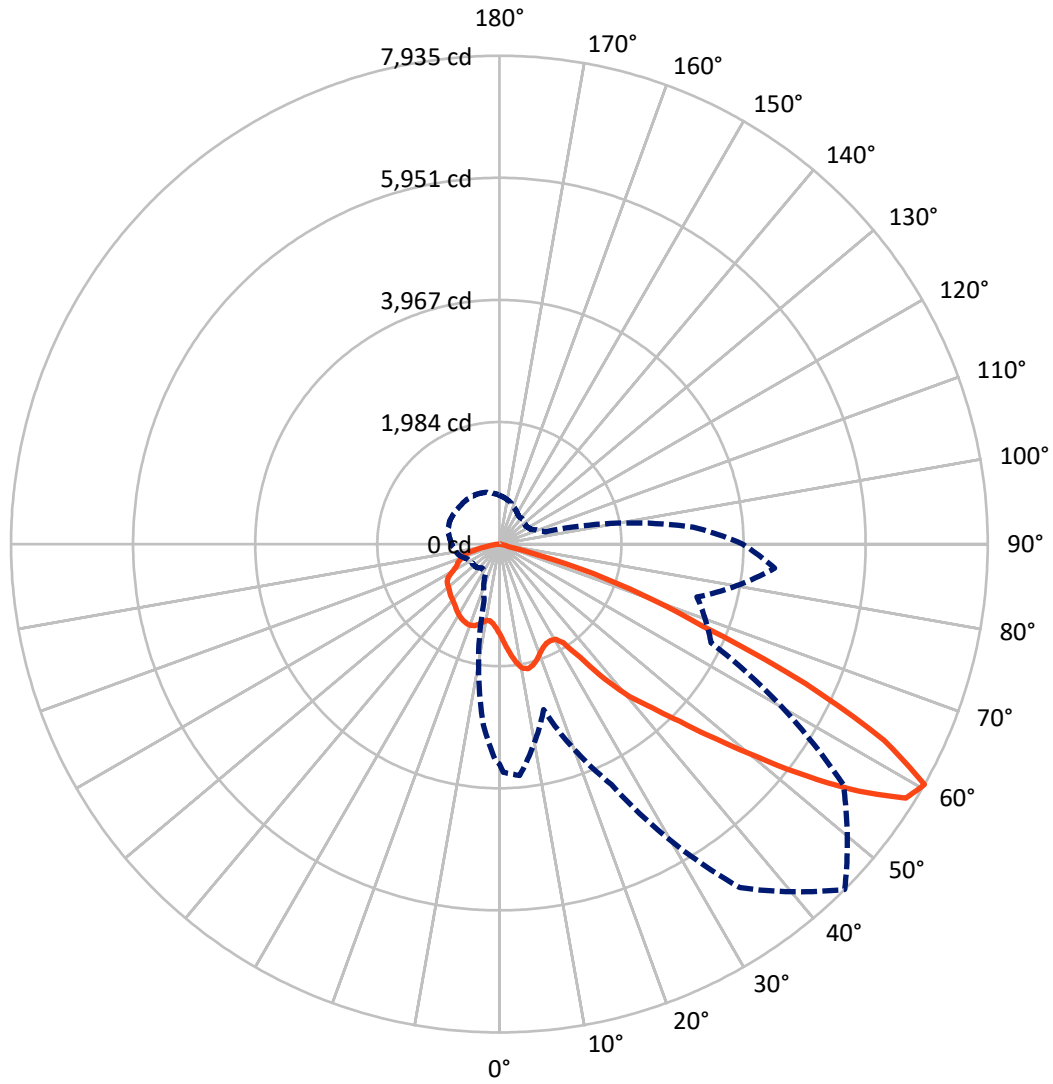
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2503.5	0.0	2503.5
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	4638.5	0.0	4638.5
	% Fixture	64.9	0.0	64.9
Total	Lumens	7142.0	0.0	7142.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.1	2.0
10°-20°	452.3	6.3
20°-30°	734.8	10.3
30°-40°	1036.3	14.5
40°-50°	1432.1	20.1
50°-60°	1843.5	25.8
60°-70°	1168.1	16.4
70°-80°	299.7	4.2
80°-90°	32.1	0.4
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°	7142.0	100.0
0°-180°	7142.0	100.0

Coefficient of Utilization



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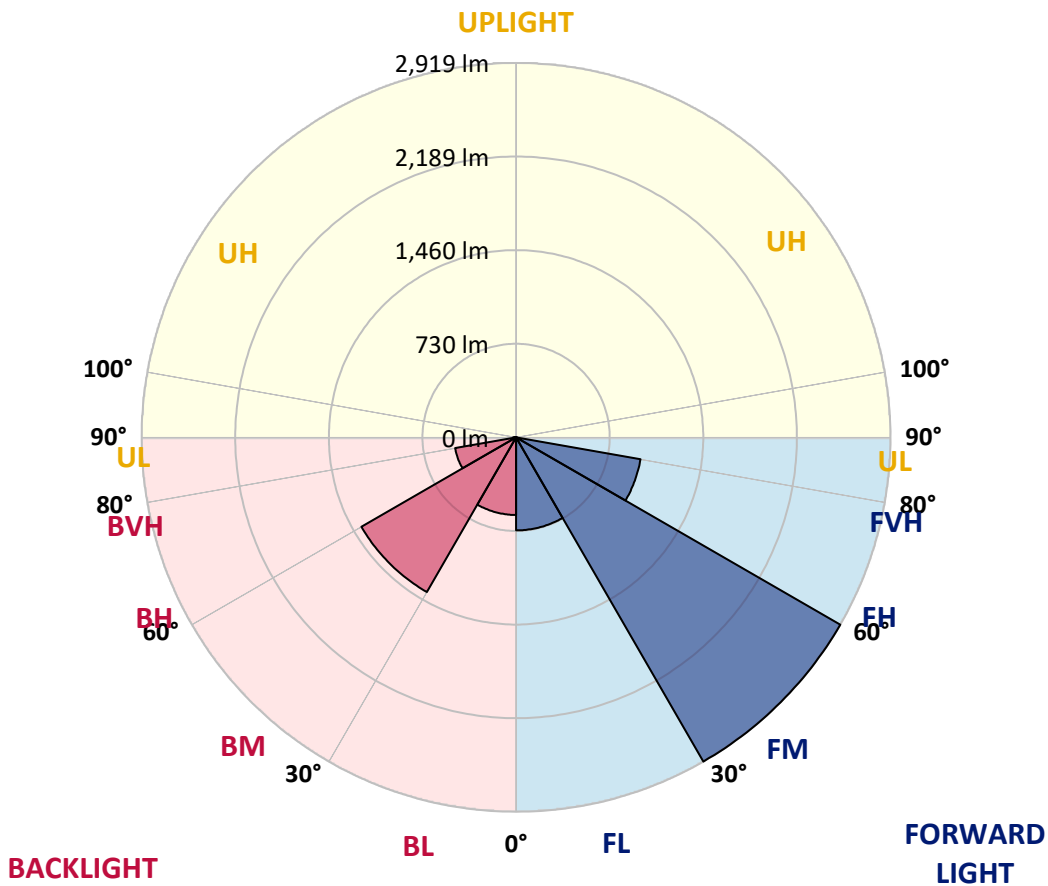
CATALOG NUMBER: GWS-SA2C-735-U-SLR-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	725.2	10.2			
FM (30°-60°)	2919.2	40.9			
FH (60°-80°)	985.3	13.8			G1/1800
FVH (80°-90°)	8.7	0.1			G0/10
BL (0°-30°)	605.1	8.5	B2/1000		
BM (30°-60°)	1392.6	19.5	B2/2500		
BH (60°-80°)	482.5	6.8	B1/500		G1/500
BVH (80°-90°)	23.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2
2.5°	1534.6	1545.1	1551.6	1564.0	1586.3	1598.7	1612.5	1597.4	1601.3	1599.4	1575.2
5°	1625.5	1638.0	1655.0	1691.6	1732.9	1755.8	1777.4	1774.1	1753.8	1719.8	1695.6
7.5°	1710.6	1725.0	1754.5	1814.0	1874.9	1910.2	1936.4	1919.4	1902.4	1848.7	1787.8
10°	1777.4	1785.9	1825.8	1905.6	1976.3	2016.2	2048.3	2044.4	2020.8	1960.6	1878.8
12.5°	1840.2	1846.1	1889.3	1969.1	2032.6	2050.3	2076.4	2084.9	2077.1	2031.9	1951.4
15°	1907.6	1918.7	1958.6	2019.5	2048.3	2030.0	2039.1	2062.7	2084.9	2084.9	2011.0
17.5°	1970.4	1980.2	2020.8	2047.0	2019.5	1971.1	1973.7	2003.8	2056.8	2112.4	2065.3
20°	2026.0	2035.2	2075.1	2050.3	1963.2	1892.5	1890.6	1927.2	2012.9	2130.1	2123.5
22.5°	2086.9	2100.0	2133.4	2052.9	1910.9	1821.2	1820.6	1858.5	1974.3	2147.8	2190.3
25°	2173.3	2193.6	2210.6	2075.8	1882.7	1774.7	1783.3	1819.2	1961.9	2176.6	2289.1
27.5°	2301.5	2317.9	2316.6	2123.5	1881.4	1755.8	1773.4	1815.3	1984.2	2227.6	2393.2
30°	2440.3	2448.8	2435.0	2190.3	1911.5	1767.5	1793.7	1843.5	2040.4	2312.0	2546.3
32.5°	2594.1	2604.5	2578.4	2290.4	1981.5	1854.6	1912.2	1936.4	2119.6	2433.7	2708.6
35°	2770.8	2791.0	2736.7	2422.6	2187.7	2172.0	2255.7	2224.3	2287.8	2577.7	2882.0
37.5°	2956.6	2957.3	2879.4	2618.3	2592.1	2618.9	2786.5	2688.3	2644.5	2738.0	3058.7
40°	3114.3	3110.4	2990.6	2882.0	2944.2	3050.8	3253.0	3102.5	2987.4	2953.3	3205.3
42.5°	3272.0	3257.6	3136.6	3049.5	3187.0	3406.2	3634.6	3450.0	3207.2	3149.0	3349.9
45°	3473.6	3469.0	3323.1	3116.3	3406.2	3804.1	4107.0	3808.0	3337.5	3262.9	3590.7
47.5°	3798.8	3776.6	3505.0	3111.0	3611.7	4334.1	4717.0	4258.9	3428.4	3265.5	3979.4
50°	4116.9	4089.4	3722.3	3110.4	3823.7	4883.8	5436.8	4806.6	3521.4	3281.2	4374.7
52.5°	4438.2	4438.2	4078.9	3184.3	4046.2	5497.7	6268.5	5489.1	3679.7	3486.7	4860.9
55°	4629.3	4680.3	4480.1	3309.3	4306.6	6220.1	7091.1	6226.0	3924.5	3857.7	5309.8
57.5°	4386.5	4482.0	4453.2	3222.3	4460.4	6750.8	7788.7	6784.9	4045.5	3901.6	5242.4
60°	3574.4	3707.2	3773.3	2782.5	4308.6	6812.4	7934.7	6821.5	3795.5	3322.4	4490.5
62.5°	2376.1	2485.4	2586.2	1988.1	3730.1	6128.5	7017.8	6130.5	3169.9	2479.5	3111.0
65°	1165.5	1246.6	1355.3	1175.3	2914.1	5120.7	5471.5	4953.8	2293.0	1388.0	1586.9
67.5°	305.0	327.9	342.9	456.1	2087.6	3679.1	3568.5	3623.4	1473.1	453.5	414.9
70°	158.4	159.7	159.0	188.5	1410.9	2338.2	2459.3	2275.4	1028.1	189.8	163.6
72.5°	113.2	113.9	111.9	127.0	681.2	1339.6	1388.0	1372.9	538.6	112.6	111.9
75°	73.9	74.6	73.3	74.6	102.7	152.5	140.7	147.9	89.7	71.3	71.3
77.5°	43.8	44.5	43.8	45.2	43.8	43.8	40.6	40.6	38.6	38.6	39.3
80°	29.4	29.4	28.8	30.1	27.5	27.5	26.2	25.5	23.6	22.9	22.9
82.5°	17.7	18.3	17.7	17.7	16.4	16.4	15.1	14.4	12.4	12.4	11.8
85°	9.2	9.2	8.5	8.5	7.2	6.5	5.2	5.2	3.9	3.3	3.3
87.5°	1.3	1.3	0.7	0.7	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°	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2
2.5°	1568.6	1555.5	1535.9	1516.9	1499.2	1480.9	1460.0	1438.4	1420.1	1401.1	1391.3
5°	1663.5	1636.7	1585.6	1540.5	1499.9	1466.5	1430.5	1399.8	1371.0	1347.4	1335.6
7.5°	1749.2	1707.3	1630.1	1558.8	1503.8	1458.0	1408.3	1362.5	1323.9	1295.1	1283.9
10°	1828.4	1778.7	1677.2	1586.9	1522.8	1471.8	1410.9	1348.7	1297.7	1259.7	1250.6
12.5°	1892.5	1835.6	1714.5	1609.8	1533.9	1479.0	1425.3	1371.6	1321.2	1272.2	1264.3
15°	1949.5	1882.1	1742.7	1624.2	1530.0	1460.0	1414.8	1408.3	1408.3	1352.7	1336.9
17.5°	1998.6	1924.6	1765.6	1630.8	1505.1	1403.7	1376.2	1433.1	1497.3	1457.4	1422.0
20°	2054.8	1965.2	1784.6	1630.8	1459.3	1332.4	1329.8	1426.6	1521.5	1522.1	1484.8
22.5°	2111.8	2012.3	1806.8	1624.9	1396.5	1249.9	1298.3	1400.4	1484.8	1520.8	1495.3
25°	2204.0	2077.7	1842.2	1620.3	1323.2	1193.6	1270.2	1365.7	1437.1	1475.0	1458.7
27.5°	2321.2	2164.1	1895.8	1627.5	1250.6	1160.3	1240.1	1320.6	1385.4	1418.8	1407.0
30°	2452.1	2263.6	1953.4	1639.9	1198.2	1143.2	1204.1	1268.9	1326.5	1359.9	1354.6
32.5°	2618.9	2371.6	2003.1	1622.9	1168.8	1134.7	1166.1	1212.6	1268.2	1289.2	1293.8
35°	2818.5	2490.7	2041.1	1556.2	1141.9	1125.6	1124.9	1153.7	1193.0	1226.4	1229.6
37.5°	3002.4	2630.1	2083.0	1441.7	1093.5	1102.7	1076.5	1093.5	1132.1	1165.5	1178.6
40°	3184.3	2771.4	2141.2	1295.7	1030.0	1051.6	1020.9	1032.7	1063.4	1107.3	1128.2
42.5°	3361.0	2899.0	2202.7	1146.5	966.6	980.3	957.4	969.2	1001.2	1056.2	1079.8
45°	3553.4	3071.8	2250.5	1005.8	911.6	905.7	887.4	904.4	952.8	1013.0	1041.2
47.5°	3917.3	3344.0	2281.9	912.2	882.1	839.6	818.7	855.3	910.3	971.1	1005.2
50°	4361.6	3738.0	2272.7	852.7	856.6	771.5	764.3	812.8	871.7	935.1	972.4
52.5°	4713.7	4124.7	2168.7	795.8	806.9	728.4	707.4	778.1	834.4	899.2	937.8
55°	4982.6	4254.9	1849.3	728.4	725.7	696.9	653.1	742.1	797.1	857.3	899.2
57.5°	4763.4	3965.0	1371.0	635.4	619.7	634.8	592.2	681.2	751.3	810.8	848.1
60°	3953.3	3161.4	763.7	562.8	518.3	554.9	548.4	617.1	701.5	764.3	796.4
62.5°	2683.7	2105.2	452.8	445.0	420.1	472.5	507.2	552.3	635.4	686.5	716.6
65°	1337.6	1022.8	301.0	333.1	336.4	388.7	454.2	503.9	573.3	625.6	655.7
67.5°	388.1	318.0	229.0	254.6	289.9	331.8	384.1	443.0	510.4	572.6	607.9
70°	167.5	169.5	181.9	212.0	246.7	289.9	342.3	399.8	456.8	504.5	531.4
72.5°	118.4	123.0	136.8	167.5	200.2	241.5	293.8	349.5	390.7	439.1	467.2
75°	75.9	79.2	90.3	113.9	138.1	178.0	227.7	278.8	321.3	356.0	382.8
77.5°	41.9	42.5	51.7	65.4	81.8	107.3	144.0	183.9	215.3	234.9	259.1
80°	24.2	24.2	28.8	37.3	47.1	62.8	83.1	102.7	121.7	134.2	145.9
82.5°	13.1	13.1	15.1	20.3	25.5	34.7	46.5	56.3	68.1	74.6	82.5
85°	3.9	3.9	5.2	7.2	9.2	13.1	18.3	23.6	28.8	33.4	38.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2
2.5°	1389.3	1380.1	1374.9	1368.4	1370.3	1364.4	1361.2	1363.1	1351.3	1363.1	1374.9
5°	1331.1	1318.0	1307.5	1299.0	1295.1	1287.2	1282.6	1282.6	1275.4	1287.2	1301.6
7.5°	1280.0	1269.5	1264.3	1259.1	1253.2	1246.0	1238.1	1235.5	1230.9	1243.4	1255.8
10°	1246.0	1247.3	1250.6	1257.8	1256.5	1251.9	1240.1	1233.6	1233.6	1248.0	1266.9
12.5°	1261.7	1275.4	1283.3	1296.4	1299.0	1295.1	1283.3	1278.1	1291.1	1312.7	1344.1
15°	1322.6	1331.7	1338.3	1348.7	1348.1	1344.8	1335.6	1339.6	1382.8	1424.6	1452.8
17.5°	1388.6	1378.2	1376.9	1383.4	1385.4	1381.4	1376.2	1393.9	1465.2	1504.5	1518.9
20°	1436.4	1400.4	1392.6	1395.2	1400.4	1398.5	1398.5	1427.3	1501.2	1519.5	1501.2
22.5°	1450.8	1399.8	1388.0	1388.6	1395.8	1396.5	1399.8	1429.9	1473.1	1473.7	1445.6
25°	1427.9	1378.8	1370.3	1371.6	1380.1	1379.5	1380.8	1397.8	1416.8	1408.9	1388.0
27.5°	1384.7	1342.2	1339.6	1346.8	1357.9	1352.0	1348.1	1352.7	1361.8	1352.0	1333.7
30°	1335.6	1299.6	1301.0	1314.7	1326.5	1316.7	1306.8	1309.5	1310.1	1299.6	1278.7
32.5°	1283.9	1257.1	1261.7	1276.1	1289.8	1279.4	1268.9	1267.6	1255.1	1242.7	1222.4
35°	1232.2	1221.8	1227.7	1239.4	1251.2	1242.7	1236.2	1232.2	1205.4	1187.1	1170.1
37.5°	1185.1	1193.0	1203.5	1210.6	1214.6	1213.9	1210.0	1200.8	1165.5	1143.9	1121.7
40°	1143.2	1167.5	1178.6	1181.9	1187.7	1186.4	1185.8	1172.7	1126.2	1103.3	1077.8
42.5°	1105.3	1139.3	1158.3	1161.6	1164.8	1165.5	1163.5	1144.6	1091.5	1064.7	1040.5
45°	1068.6	1113.1	1137.4	1134.1	1138.7	1138.7	1140.6	1115.8	1057.5	1030.0	1004.5
47.5°	1036.6	1088.9	1111.2	1107.3	1109.9	1111.8	1113.8	1085.0	1020.2	994.0	967.9
50°	1007.1	1062.8	1081.7	1083.0	1083.0	1087.6	1087.0	1058.8	988.8	960.7	934.5
52.5°	975.7	1035.9	1056.2	1064.7	1067.3	1069.3	1060.1	1027.4	956.7	922.7	898.5
55°	939.1	1008.4	1026.8	1037.9	1043.1	1041.8	1029.4	996.0	924.0	890.0	862.5
57.5°	883.4	949.5	975.7	981.0	989.5	984.2	969.8	941.7	871.7	837.6	809.5
60°	822.6	870.4	891.3	895.9	889.3	891.3	889.3	862.5	801.6	774.8	746.0
62.5°	742.7	785.3	807.5	813.4	802.3	809.5	806.9	773.5	712.6	684.5	659.0
65°	682.5	729.0	755.2	758.5	755.2	758.5	749.3	708.7	651.1	622.3	596.2
67.5°	635.4	683.2	710.7	719.8	716.6	715.9	701.5	654.4	594.9	563.4	530.1
70°	554.3	596.2	631.5	653.8	653.8	641.3	613.8	570.0	522.2	495.4	469.2
72.5°	490.8	543.8	578.5	601.4	606.0	598.8	560.2	513.7	458.7	431.9	404.4
75°	404.4	456.1	493.4	523.5	529.4	521.6	477.1	431.3	380.2	354.0	326.5
77.5°	270.3	301.0	331.1	358.6	352.7	358.0	327.9	293.2	261.8	242.1	229.7
80°	152.5	172.8	181.9	197.0	197.0	197.0	177.3	161.0	143.3	132.2	119.8
82.5°	86.4	99.5	103.4	115.8	119.1	119.8	106.7	96.2	85.1	79.2	70.7
85°	39.9	47.1	47.8	55.0	57.6	62.8	56.9	49.7	43.2	40.6	35.3
87.5°	1.3	3.9	5.2	9.8	13.1	15.1	16.4	16.4	13.7	12.4	10.5
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°	359°	360°
0°	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2
2.5°	1389.3	1405.0	1423.3	1436.4	1460.0	1479.6	1499.9	1522.1	1538.5	1534.6
5°	1319.3	1345.5	1378.8	1409.6	1453.4	1497.9	1547.0	1597.4	1626.9	1625.5
7.5°	1280.0	1317.3	1357.9	1399.1	1450.8	1514.9	1590.2	1668.7	1708.7	1710.6
10°	1301.0	1340.9	1368.4	1403.0	1457.4	1537.9	1628.2	1722.4	1768.2	1777.4
12.5°	1367.1	1363.8	1361.8	1386.7	1452.1	1554.2	1664.8	1777.4	1829.1	1840.2
15°	1429.9	1362.5	1321.9	1338.9	1428.6	1564.7	1700.8	1837.6	1895.8	1907.6
17.5°	1441.7	1339.6	1264.3	1276.1	1391.3	1568.0	1735.5	1896.5	1959.3	1970.4
20°	1408.9	1310.1	1222.4	1206.1	1344.1	1559.4	1757.1	1945.5	2014.3	2026.0
22.5°	1367.7	1283.9	1191.0	1148.5	1286.6	1550.9	1781.3	1997.2	2076.4	2086.9
25°	1324.5	1250.6	1161.6	1096.8	1221.1	1545.7	1821.9	2065.3	2160.8	2173.3
27.5°	1278.7	1210.0	1136.0	1071.9	1160.9	1552.2	1879.5	2175.2	2283.9	2301.5
30°	1229.6	1169.4	1119.7	1063.4	1119.7	1558.1	1942.9	2287.8	2415.4	2440.3
32.5°	1178.6	1132.1	1102.7	1067.3	1094.2	1544.4	1998.6	2414.1	2572.5	2594.1
35°	1127.5	1094.2	1081.1	1074.5	1060.1	1494.0	2043.7	2541.7	2751.8	2770.8
37.5°	1079.8	1054.9	1051.0	1058.2	1007.8	1411.6	2096.1	2704.0	2927.8	2956.6
40°	1035.3	1012.4	1011.7	1010.4	950.2	1299.0	2166.7	2868.9	3101.2	3114.3
42.5°	994.0	965.2	970.5	954.8	903.1	1177.3	2233.5	3009.6	3262.9	3272.0
45°	957.4	919.4	925.3	905.7	880.8	1049.7	2292.4	3175.8	3467.7	3473.6
47.5°	922.1	881.5	865.1	863.8	876.9	931.9	2350.0	3495.8	3788.4	3798.8
50°	889.3	845.5	799.0	827.8	852.7	843.5	2422.0	3838.7	4119.5	4116.9
52.5°	857.9	800.3	734.2	789.9	789.9	778.1	2401.7	4046.8	4393.0	4438.2
55°	821.9	727.7	666.8	726.4	697.6	719.2	2042.4	4114.9	4565.1	4629.3
57.5°	750.6	638.0	585.0	617.1	573.9	666.8	1467.2	3777.2	4272.6	4386.5
60°	681.9	572.0	537.3	531.4	475.1	543.8	950.9	2957.3	3516.8	3574.4
62.5°	601.4	515.0	485.6	440.4	382.2	395.9	575.9	1946.2	2363.1	2376.1
65°	540.5	466.6	410.3	356.7	312.8	287.3	340.3	938.4	1181.2	1165.5
67.5°	464.0	399.8	346.2	307.6	271.6	239.5	226.4	278.8	315.4	305.0
70°	412.9	351.4	299.7	263.1	229.7	197.6	174.7	164.3	161.0	158.4
72.5°	356.0	302.3	248.7	213.3	181.9	152.5	131.5	119.1	115.8	113.2
75°	284.0	233.6	184.5	151.2	123.7	102.7	89.0	78.5	76.6	73.9
77.5°	187.8	149.9	109.9	89.7	73.3	62.2	53.0	46.5	45.2	43.8
80°	103.4	86.4	67.4	54.3	43.8	38.0	34.7	30.8	30.1	29.4
82.5°	61.5	51.7	38.6	30.8	25.5	22.9	20.9	19.0	18.3	17.7
85°	30.8	24.2	17.0	14.4	13.1	11.8	11.8	9.8	9.2	9.2
87.5°	7.9	6.5	3.9	3.3	3.3	3.3	2.6	2.0	2.0	1.3
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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