

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: P632268

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632268
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-SA2C-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4870 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

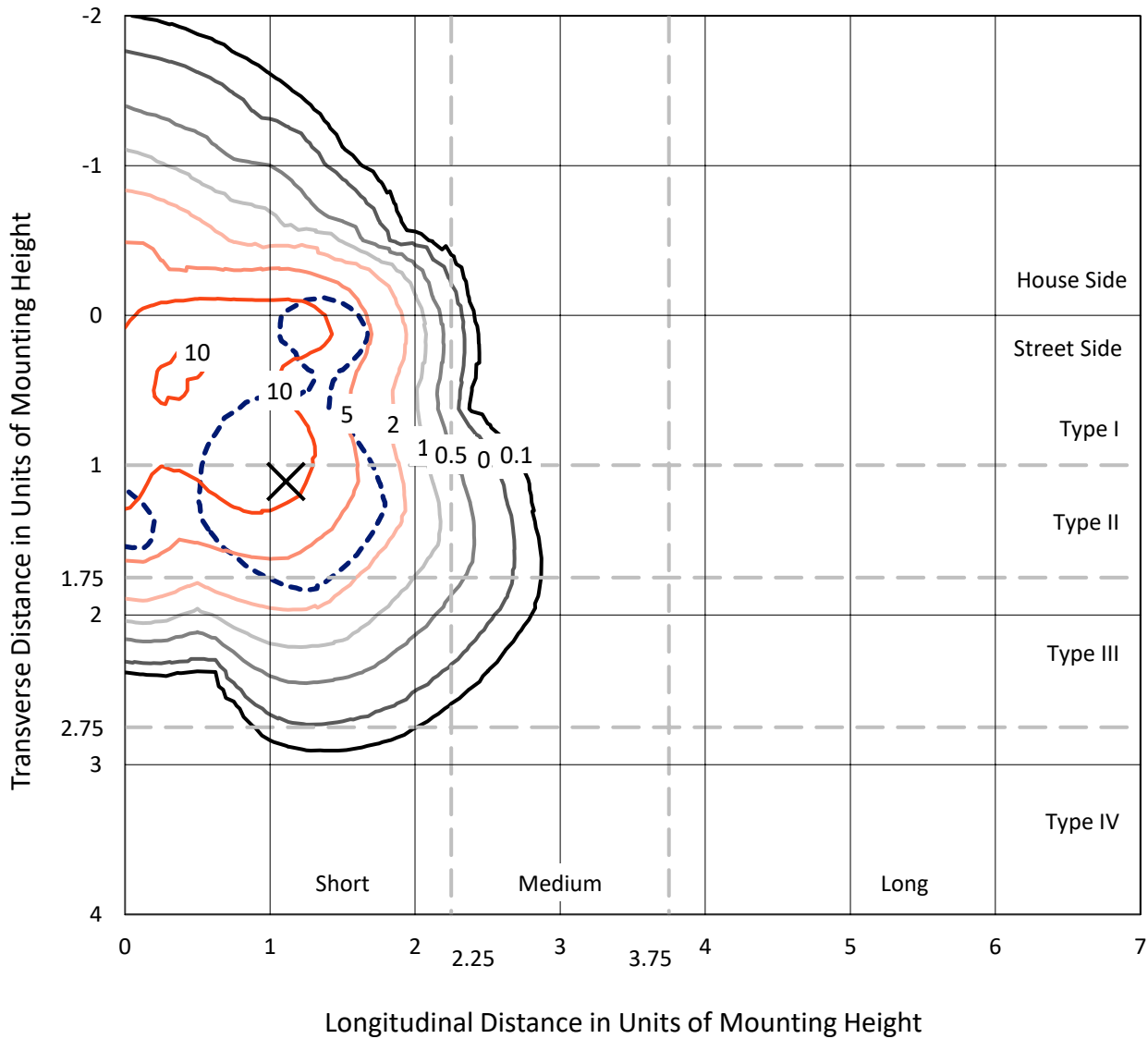
Input Watts (W): 63.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

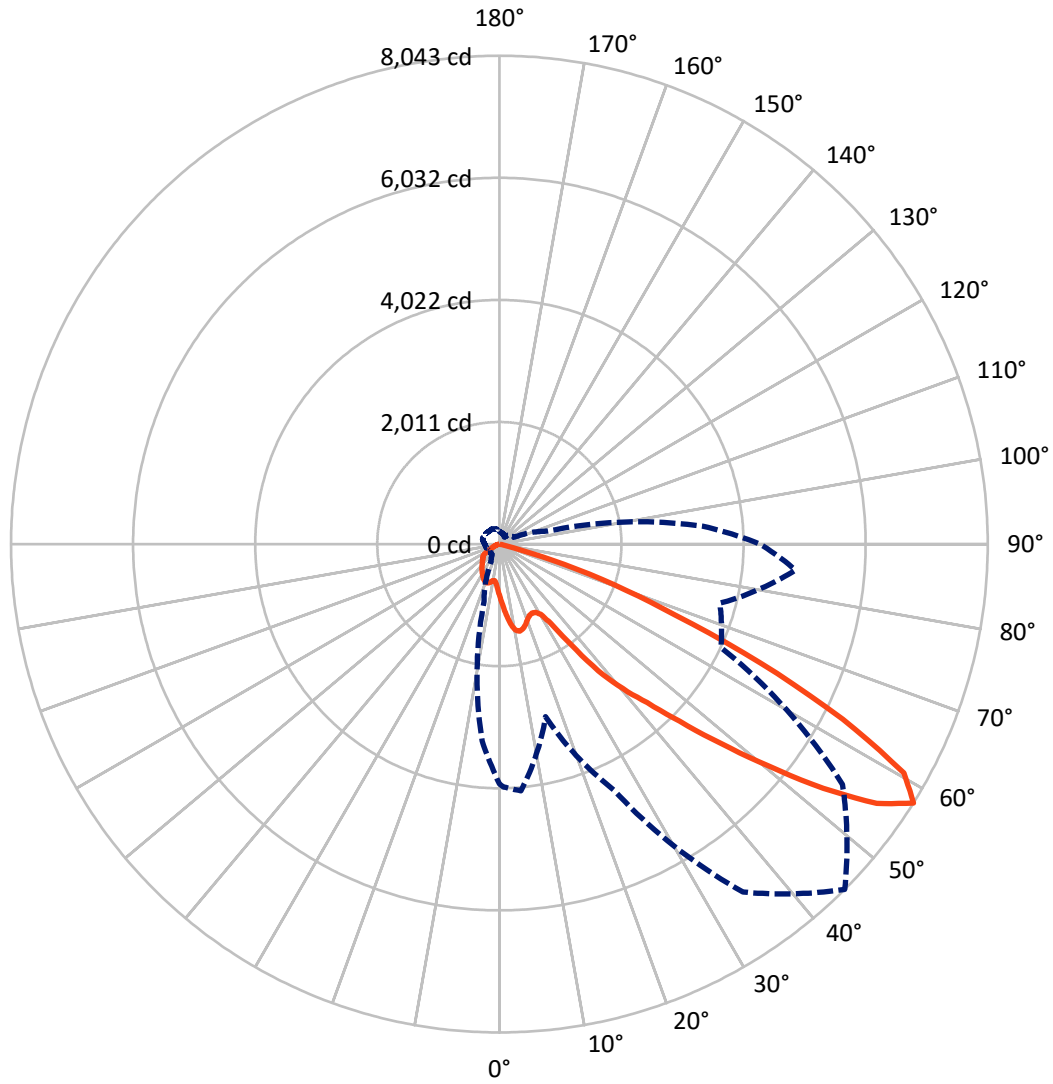
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.2 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	1090.5	0.0	1090.5
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	3779.5	0.0	3779.5
	% Fixture	77.6	0.0	77.6
Total	Lumens	4870.0	0.0	4870.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.2	1.7
10°-20°	272.4	5.6
20°-30°	442.5	9.1
30°-40°	683.7	14.0
40°-50°	1096.4	22.5
50°-60°	1498.4	30.8
60°-70°	725.7	14.9
70°-80°	66.4	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°	4870.0	100.0
0°-180°	4870.0	100.0

Coefficient of Utilization



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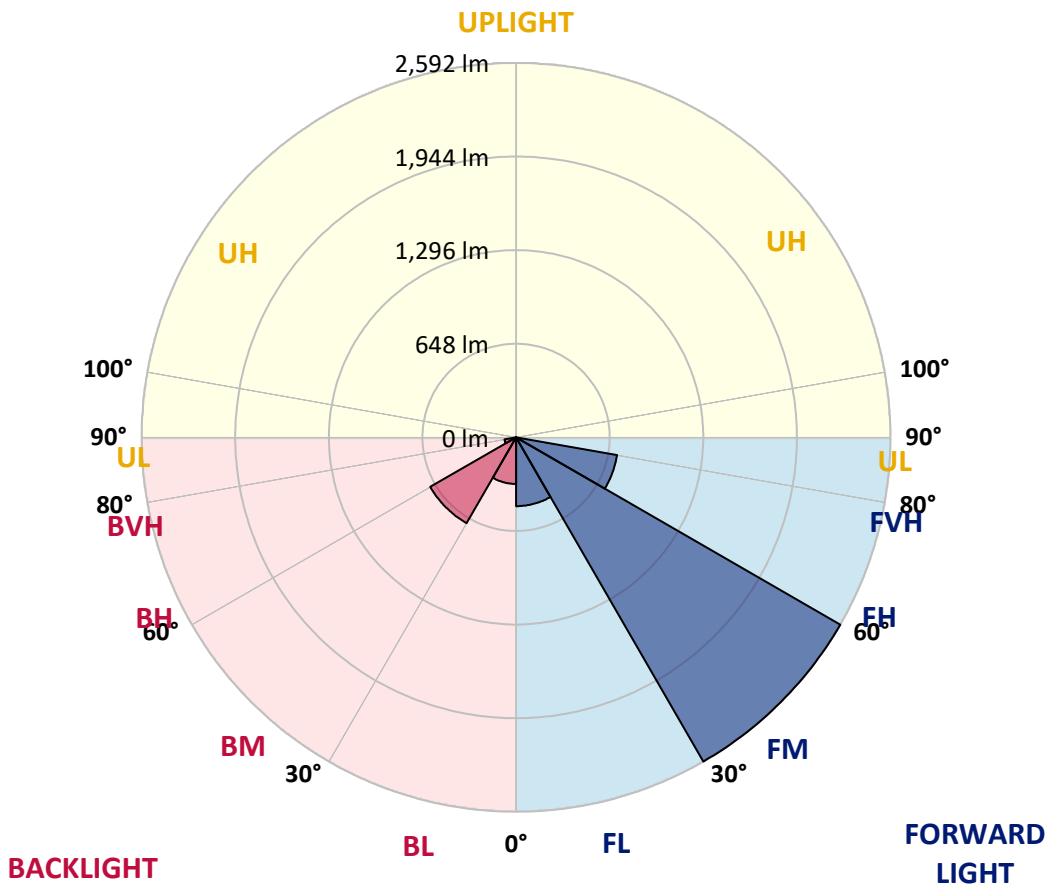
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	476.4	9.8			
FM (30°-60°)	2592.4	53.2			
FH (60°-80°)	710.4	14.6			G1/1800
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	322.7	6.6	B1/500		
BM (30°-60°)	686.1	14.1	B1/1000		
BH (60°-80°)	81.7	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°	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0
2.5°	927.3	933.2	943.0	963.9	981.6	993.4	998.6	997.3	990.1	984.9	974.4
5°	1026.8	1026.8	1045.7	1093.5	1130.1	1153.1	1164.8	1157.6	1143.2	1120.3	1085.0
7.5°	1113.8	1117.1	1149.1	1217.2	1272.8	1305.5	1324.5	1320.6	1295.1	1251.2	1180.5
10°	1181.8	1185.8	1228.3	1311.4	1376.9	1410.2	1438.4	1441.0	1412.8	1354.6	1273.5
12.5°	1247.9	1251.9	1296.4	1376.2	1433.8	1447.5	1472.4	1482.2	1475.0	1433.8	1349.4
15°	1319.3	1328.4	1366.4	1425.9	1450.1	1433.8	1450.1	1467.8	1492.0	1488.1	1412.2
17.5°	1389.3	1395.8	1434.4	1455.4	1428.6	1386.0	1393.9	1414.8	1469.8	1523.4	1474.4
20°	1454.1	1463.2	1495.3	1467.8	1386.7	1320.6	1321.2	1348.7	1432.5	1545.0	1537.8
22.5°	1522.1	1535.9	1558.8	1481.6	1348.1	1268.9	1272.2	1297.0	1403.0	1565.3	1609.8
25°	1611.1	1624.2	1639.3	1515.6	1335.6	1243.4	1255.8	1278.7	1403.0	1600.0	1698.8
27.5°	1731.5	1740.7	1741.4	1579.1	1357.2	1247.3	1273.5	1299.6	1444.9	1669.4	1817.9
30°	1882.7	1897.1	1878.1	1677.9	1424.6	1299.6	1338.2	1371.0	1535.2	1786.5	1993.3
32.5°	2066.6	2086.9	2061.4	1824.5	1565.3	1480.3	1550.3	1569.3	1679.2	1956.0	2192.2
35°	2282.5	2299.6	2272.1	2027.3	1893.8	1909.5	2036.5	2012.3	1968.4	2164.8	2424.6
37.5°	2519.4	2535.1	2482.1	2334.9	2379.4	2447.5	2650.3	2567.2	2425.9	2433.7	2676.5
40°	2736.7	2753.7	2670.6	2669.3	2760.9	2885.2	3130.0	3015.5	2823.1	2785.8	2912.7
42.5°	2961.8	2973.6	2898.3	2847.3	3055.4	3311.3	3570.4	3416.0	3086.1	3045.6	3208.5
45°	3283.1	3308.0	3173.8	2935.0	3320.4	3801.4	4162.6	3861.0	3265.5	3232.7	3661.4
47.5°	3755.6	3773.9	3500.4	2990.0	3567.1	4412.0	4902.8	4438.1	3423.2	3348.6	4280.4
50°	4146.3	4158.7	3800.8	3050.2	3829.5	5070.3	5746.3	5122.6	3600.5	3540.3	4858.3
52.5°	4434.2	4481.3	4195.4	3173.8	4174.4	5844.4	6680.1	5933.4	3877.3	3910.7	5337.3
55°	4493.8	4557.9	4465.0	3249.7	4478.1	6633.0	7542.6	6659.2	4153.5	4191.4	5498.3
57.5°	3949.3	4000.3	4077.6	2943.5	4470.9	6994.2	8043.2	6900.0	4027.8	3758.9	4895.6
60°	2958.5	2993.9	3133.9	2249.8	4111.6	6674.9	7653.2	6490.3	3522.0	2868.2	3730.1
62.5°	1754.4	1770.2	1947.5	1457.3	3412.7	5748.2	6347.0	5600.4	2783.2	1929.2	2284.5
65°	673.4	666.8	802.3	719.2	2509.6	4578.8	4720.8	4269.3	1909.5	884.1	871.0
67.5°	104.0	99.5	134.2	212.7	1810.1	3173.2	3114.9	3077.0	1196.2	206.1	180.0
70°	23.6	23.6	28.8	62.8	1105.9	1864.4	1995.3	1902.3	765.6	43.8	23.6
72.5°	11.1	11.1	13.7	26.8	400.5	768.3	895.2	881.5	248.7	14.4	8.5
75°	3.9	4.6	4.6	5.9	24.2	39.9	91.6	65.4	15.7	0.0	0.0
77.5°	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.7	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°	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0
2.5°	951.5	946.9	929.9	907.0	884.7	865.1	844.8	820.6	802.9	782.7	776.1
5°	1057.5	1028.7	982.3	933.8	889.3	851.4	814.7	775.5	746.7	717.9	708.1
7.5°	1147.2	1104.6	1029.4	956.7	895.9	842.2	789.2	735.5	693.7	659.6	649.2
10°	1227.7	1178.6	1077.8	988.1	911.6	849.4	785.3	717.9	663.6	623.0	613.2
12.5°	1297.0	1240.1	1119.0	1011.7	918.1	846.8	784.6	731.0	681.9	635.4	623.0
15°	1355.3	1292.4	1153.7	1027.4	908.3	814.1	759.8	751.3	747.3	696.3	672.1
17.5°	1412.2	1341.5	1181.8	1034.6	880.8	756.5	717.2	755.8	797.1	763.7	732.9
20°	1471.7	1391.3	1210.6	1035.9	835.0	691.7	685.2	746.0	798.4	787.9	759.1
22.5°	1541.8	1453.4	1246.6	1035.3	777.4	636.7	661.6	727.0	769.6	768.9	746.0
25°	1643.2	1531.9	1295.1	1039.2	714.6	594.2	635.4	695.0	729.7	728.3	709.4
27.5°	1751.8	1625.5	1357.9	1049.0	660.9	569.3	604.7	651.1	681.2	679.9	663.6
30°	1904.3	1733.5	1418.1	1049.7	622.3	556.2	570.6	602.7	631.5	628.2	615.8
32.5°	2089.5	1855.2	1468.5	1012.4	598.1	543.8	535.3	551.7	573.9	569.3	566.1
35°	2313.3	1999.8	1511.7	930.6	560.8	518.9	496.0	499.3	515.0	517.6	516.3
37.5°	2568.5	2172.0	1565.3	822.6	510.4	482.9	452.2	449.6	458.7	467.2	473.8
40°	2820.5	2365.7	1638.0	713.3	464.6	437.1	407.7	401.1	405.1	420.1	433.9
42.5°	3103.8	2590.1	1716.5	619.7	433.2	386.8	358.6	346.2	357.3	381.5	397.9
45°	3512.2	2904.9	1793.1	545.1	420.1	342.3	304.3	303.0	315.4	346.8	365.2
47.5°	4085.4	3311.9	1843.4	486.9	419.5	307.6	262.4	270.3	284.7	315.4	336.4
50°	4644.3	3821.7	1787.8	442.4	405.7	284.7	231.0	246.7	261.1	287.9	309.5
52.5°	4981.3	4095.9	1571.2	400.5	363.2	274.2	200.2	227.7	230.3	254.6	277.5
55°	4946.0	3918.5	1203.4	335.7	300.4	259.1	168.2	205.5	206.8	225.1	244.7
57.5°	4292.9	3364.3	826.5	272.2	225.8	214.0	138.7	173.4	185.8	197.0	211.4
60°	3199.4	2454.7	368.4	221.2	143.3	144.6	118.4	130.9	149.9	162.9	175.4
62.5°	1885.3	1412.2	149.9	132.8	79.2	91.0	95.5	95.5	107.3	117.1	125.0
65°	712.6	494.1	60.9	66.7	41.2	42.5	56.3	69.4	78.5	87.0	97.5
67.5°	125.0	86.4	31.4	24.9	24.2	21.6	28.8	45.2	50.4	56.9	61.5
70°	20.9	17.7	13.1	12.4	11.1	11.8	19.0	32.1	35.3	37.3	39.3
72.5°	5.9	5.2	3.9	3.3	2.6	3.3	11.8	24.9	26.2	27.5	29.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	4.6	17.7	19.0	19.6	21.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	5.2	6.5	5.2
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°	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0
2.5°	772.2	759.1	751.9	748.0	748.0	742.7	736.9	734.9	743.4	743.4	757.8
5°	695.6	685.2	673.4	666.2	655.1	657.0	650.5	649.8	658.3	662.3	677.3
7.5°	642.6	629.5	622.3	617.8	611.9	609.2	603.4	601.4	606.0	612.5	626.9
10°	607.3	605.3	604.7	607.9	607.9	604.7	599.4	596.2	597.5	609.9	626.3
12.5°	616.4	620.4	621.7	626.9	629.5	626.9	623.0	624.3	632.8	655.7	679.9
15°	656.4	653.1	651.8	654.4	656.4	653.7	652.4	662.3	691.7	724.4	751.9
17.5°	698.9	678.0	668.8	668.8	670.1	668.8	670.1	689.1	736.9	769.6	789.9
20°	720.5	681.9	667.5	664.2	666.8	667.5	672.1	693.7	746.0	768.9	773.5
22.5°	714.0	665.5	649.2	646.5	649.2	651.8	656.4	674.7	723.8	735.5	733.6
25°	681.2	633.5	620.4	620.4	626.3	625.6	627.6	640.7	681.2	688.4	685.2
27.5°	640.0	594.8	583.7	590.3	595.5	594.2	594.8	606.0	636.1	638.0	634.8
30°	598.1	558.9	548.4	556.2	563.4	562.1	562.8	573.9	592.9	590.9	586.3
32.5°	555.6	526.8	518.9	523.5	534.6	533.3	536.0	547.7	554.9	546.4	541.2
35°	516.3	501.3	495.4	498.0	506.5	508.5	513.0	520.9	520.9	510.4	501.3
37.5°	479.7	477.7	473.8	470.5	478.4	484.3	490.8	500.0	486.9	471.8	463.3
40°	445.6	454.2	448.9	440.4	445.0	453.5	466.6	473.8	458.1	443.0	428.6
42.5°	414.2	428.6	426.7	416.2	420.1	428.0	443.0	448.9	430.6	413.6	399.8
45°	384.1	404.4	405.7	392.6	396.6	404.4	422.1	424.1	400.5	382.2	372.4
47.5°	358.0	380.2	380.9	371.0	372.4	383.5	399.8	400.5	373.7	356.6	344.2
50°	333.1	358.6	360.6	352.1	353.4	366.5	380.2	377.6	348.8	331.1	320.0
52.5°	303.0	337.7	342.3	338.3	343.6	354.0	362.5	353.4	320.0	302.3	292.5
55°	270.3	315.4	325.2	322.6	328.5	337.0	339.0	333.1	291.2	273.5	264.4
57.5°	232.3	259.8	276.8	271.6	276.2	284.7	290.6	286.0	254.6	240.8	233.0
60°	192.4	210.7	214.6	206.1	202.2	217.3	231.0	225.1	198.3	189.8	180.6
62.5°	140.7	161.6	164.3	153.1	148.5	164.9	176.7	170.8	141.4	132.2	125.0
65°	112.6	132.2	137.4	127.0	124.3	136.8	144.0	129.6	108.6	98.8	91.0
67.5°	73.9	89.7	103.4	102.7	97.5	101.4	96.2	84.4	69.4	64.1	58.9
70°	45.8	55.0	63.5	66.7	66.1	64.8	57.6	49.1	44.5	42.5	39.9
72.5°	35.3	44.5	51.0	53.0	53.7	51.7	45.8	38.0	33.4	30.8	28.8
75°	26.2	33.4	38.6	41.2	42.5	41.2	35.3	30.1	25.5	23.6	21.6
77.5°	9.2	11.1	13.7	15.1	14.4	13.7	12.4	12.4	9.8	9.2	7.9
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0	856.0
2.5°	774.2	785.9	807.5	827.2	848.1	869.7	893.3	917.5	928.6	927.3
5°	700.2	725.7	761.1	799.7	842.9	889.3	941.0	994.0	1016.9	1026.8
7.5°	653.7	689.7	736.2	785.3	842.2	908.3	986.2	1069.3	1102.7	1113.8
10°	659.6	701.5	740.1	787.9	848.8	934.5	1031.3	1130.1	1169.4	1181.8
12.5°	707.4	716.6	727.0	766.3	842.9	954.1	1072.6	1190.4	1235.5	1247.9
15°	750.6	708.1	688.4	724.4	821.9	967.9	1114.4	1255.1	1304.9	1319.3
17.5°	752.6	688.4	644.6	672.7	787.9	973.7	1155.7	1321.2	1375.5	1389.3
20°	728.3	666.8	610.6	611.2	741.4	972.4	1189.7	1380.8	1441.6	1454.1
22.5°	693.0	641.3	583.1	562.8	691.7	969.8	1227.0	1444.3	1510.4	1522.1
25°	653.7	608.6	556.9	526.1	642.0	972.4	1279.4	1527.4	1600.0	1611.1
27.5°	611.2	572.6	536.6	511.7	600.1	982.3	1342.2	1633.4	1719.8	1731.5
30°	566.7	537.9	523.5	508.5	573.9	984.9	1410.2	1757.1	1866.3	1882.7
32.5°	522.9	507.2	507.8	510.4	549.0	966.5	1472.4	1894.5	2040.4	2066.6
35°	482.3	477.7	490.8	503.9	513.0	919.4	1526.7	2056.8	2255.7	2282.5
37.5°	447.6	451.5	467.9	481.0	473.8	852.7	1598.7	2259.6	2496.5	2519.4
40°	414.2	424.1	443.0	448.9	443.7	774.8	1685.1	2455.3	2705.3	2736.7
42.5°	383.5	390.7	417.5	418.8	435.2	695.6	1768.2	2666.0	2945.5	2961.8
45°	358.6	357.3	384.8	393.3	446.3	607.9	1849.3	2946.8	3259.6	3283.1
47.5°	334.4	333.1	339.6	378.2	450.9	526.8	1929.8	3357.7	3715.0	3755.6
50°	311.5	313.5	293.2	371.0	426.0	464.6	1966.5	3737.9	4129.3	4146.3
52.5°	291.2	284.0	248.7	347.5	373.0	405.7	1862.4	3910.7	4385.8	4434.2
55°	262.4	222.5	204.8	282.0	294.5	354.0	1525.4	3810.6	4408.0	4493.8
57.5°	224.5	174.7	174.1	208.1	208.1	328.5	977.0	3255.6	3798.8	3949.3
60°	172.8	135.5	144.0	144.6	133.5	239.5	548.4	2358.5	2808.7	2958.5
62.5°	123.0	103.4	108.6	86.4	76.6	119.8	263.1	1357.9	1733.5	1754.4
65°	82.5	70.0	56.9	47.8	47.1	51.0	108.6	490.8	596.8	673.4
67.5°	54.3	42.5	30.1	30.1	34.0	34.0	41.2	81.1	113.9	104.0
70°	35.3	29.4	19.0	18.3	22.2	22.2	20.9	22.2	23.6	23.6
72.5°	26.2	22.2	11.1	9.8	12.4	13.1	11.8	11.1	11.1	11.1
75°	19.6	15.7	6.5	4.6	5.9	7.9	6.5	4.6	4.6	3.9
77.5°	7.9	5.9	2.6	2.0	3.3	4.6	3.9	2.0	1.3	1.3
80°	0.7	1.3	1.3	1.3	2.0	2.6	3.3	1.3	0.7	0.7
82.5°	0.0	0.7	0.7	0.7	1.3	2.0	2.6	1.3	0.7	0.7
85°	0.0	0.0	0.0	0.0	1.3	2.0	1.3	0.7	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.7	2.0	1.3	0.7	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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