

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P526337

Luminaire Tested: **GALN-SA1B-735-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526337
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-735-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2965 lumens
Efficiency: N/A
Efficacy: 67.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G0

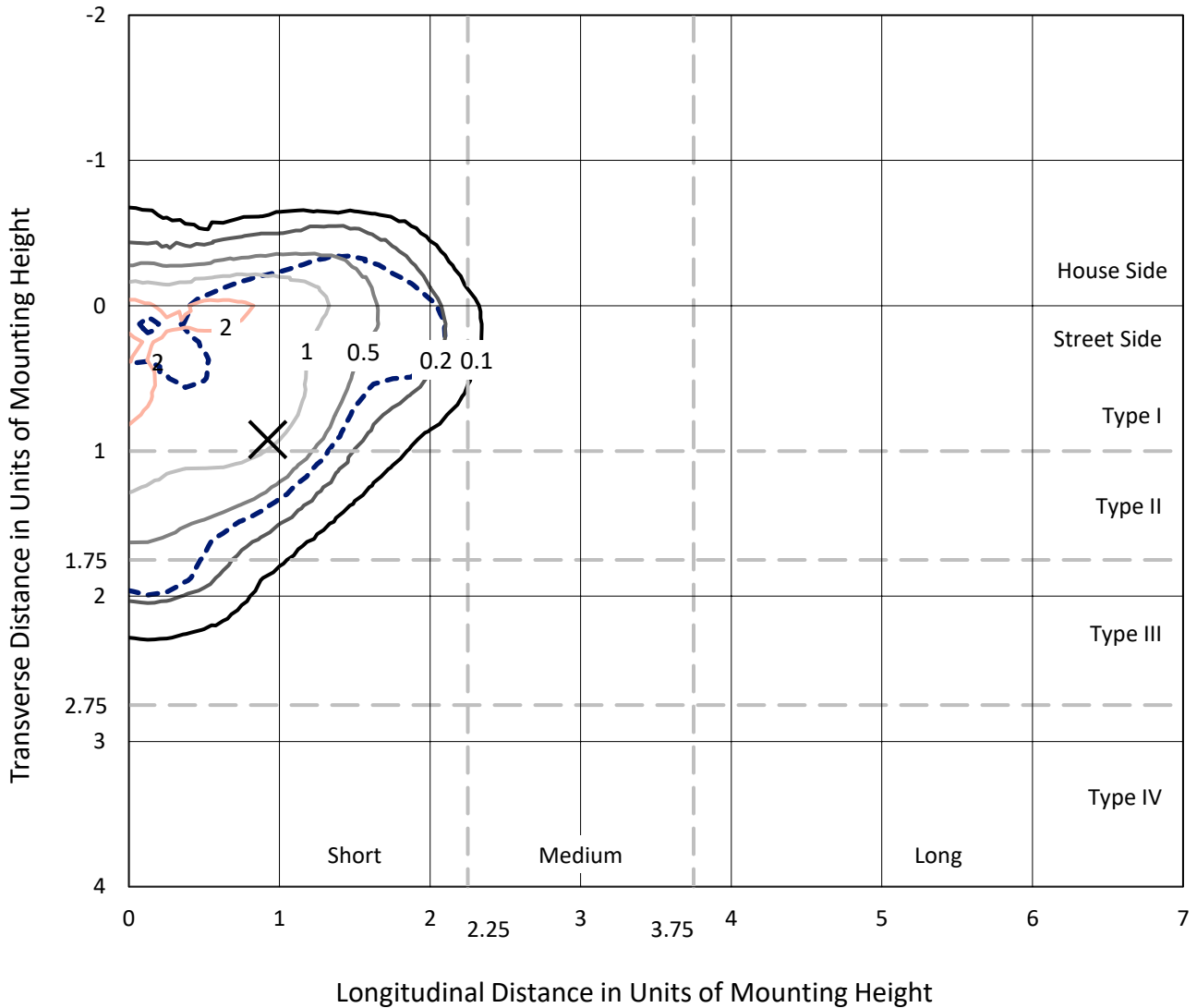
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

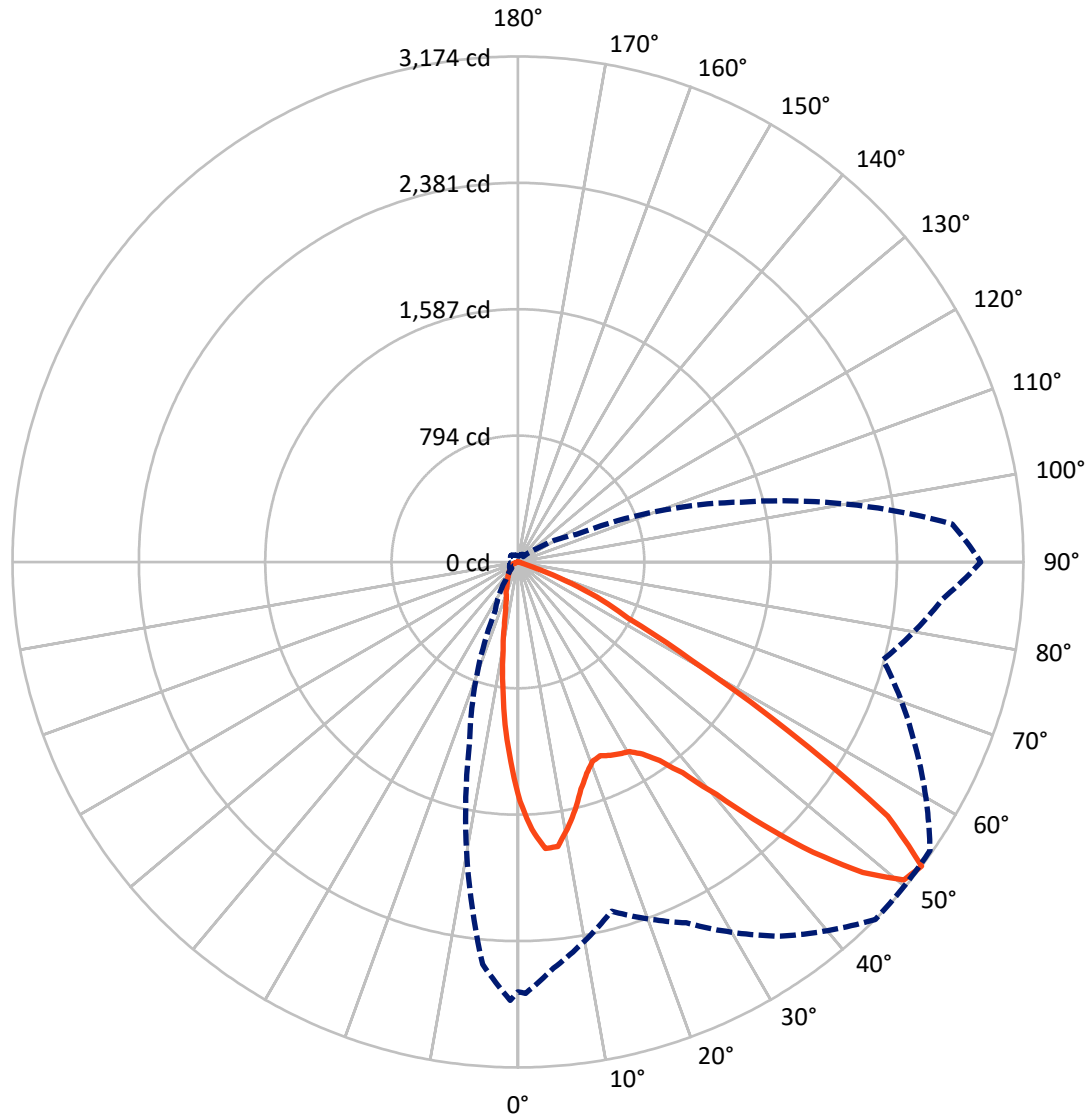
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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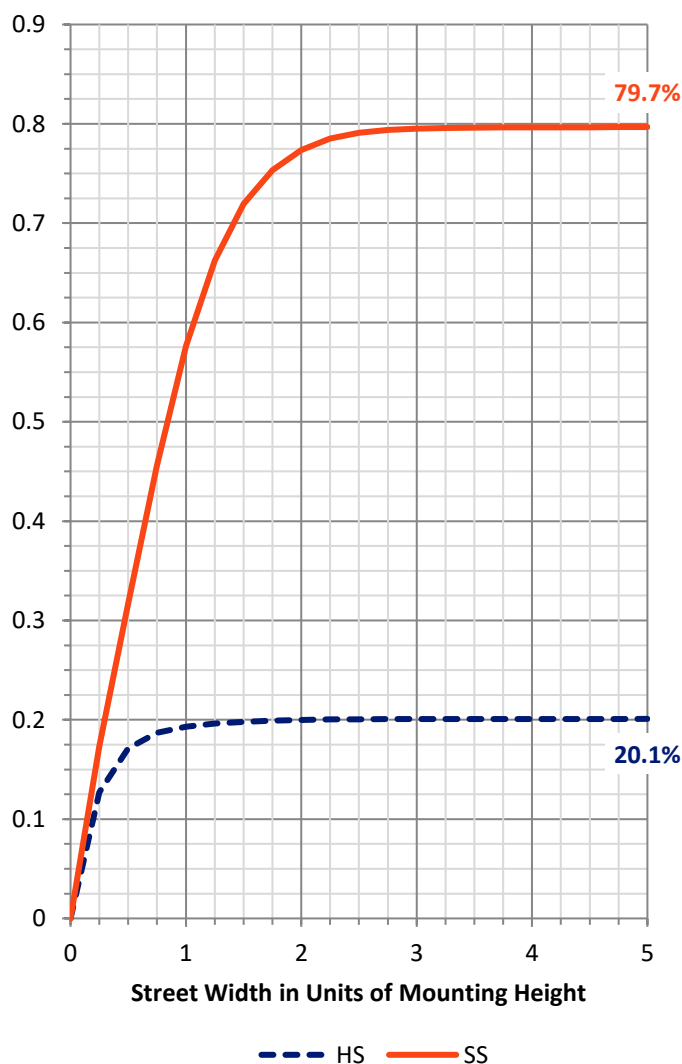
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	601.7	0.0	601.7
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	2363.2	0.0	2363.2
	% Fixture	79.7	0.0	79.7
Total	Lumens	2965.0	0.0	2965.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.6	3.7
10°-20°	216.3	7.3
20°-30°	329.2	11.1
30°-40°	492.0	16.6
40°-50°	700.7	23.6
50°-60°	753.2	25.4
60°-70°	333.8	11.3
70°-80°	27.0	0.9
80°-90°	3.1	0.1
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°	2965.0	100.0
0°-180°	2965.0	100.0

Coefficient of Utilization

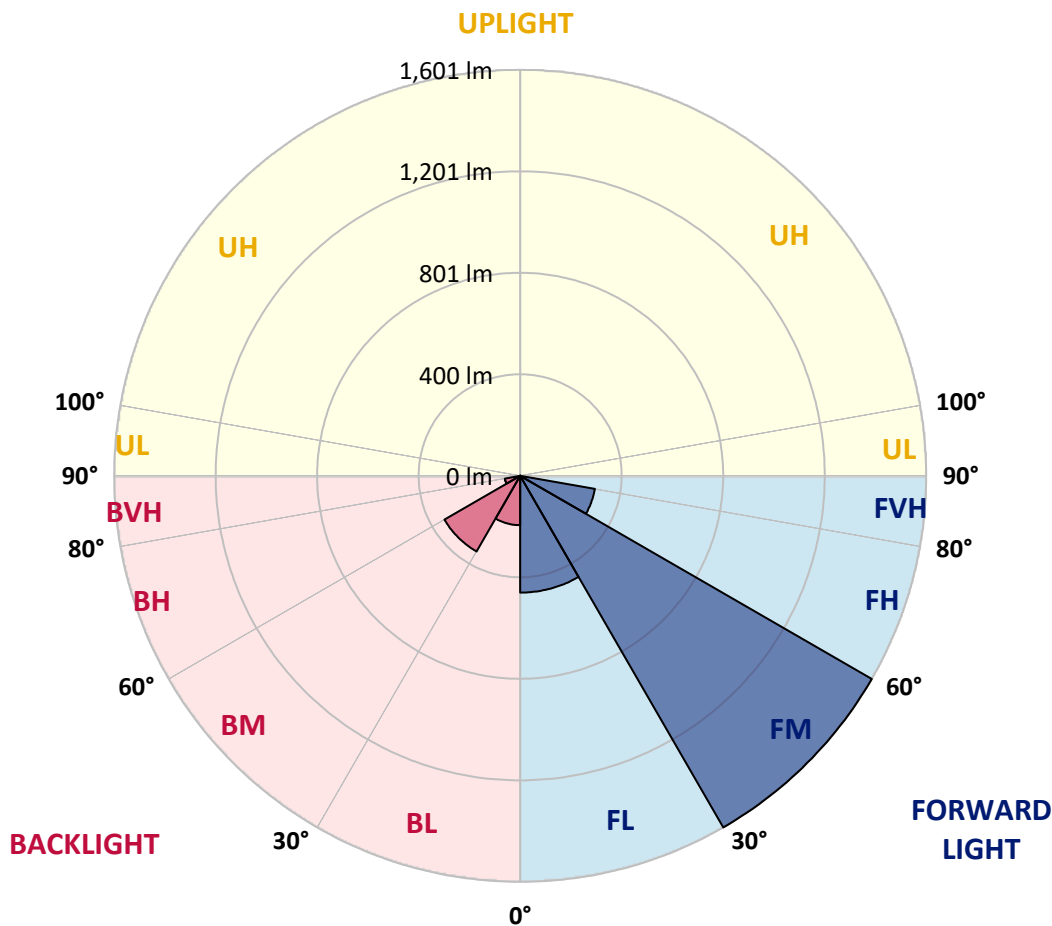


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	460.5	15.5			
FM (30°-60°)	1601.2	54.0			
FH (60°-80°)	299.2	10.1			G0/660
FVH (80°-90°)	2.3	0.1			G0/10
BL (0°-30°)	194.6	6.6	B1/500		
BM (30°-60°)	344.7	11.6	B1/1000		
BH (60°-80°)	61.6	2.1	B0/110		G0/110
BVH (80°-90°)	0.8	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-G0
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1503.4	1503.4	1503.4	1503.4	1503.4	1503.4	1503.4	1503.4	1503.4	1503.4	1503.4
2.5°	1590.9	1595.5	1621.2	1653.3	1670.2	1708.7	1681.8	1688.8	1674.3	1622.9	1582.7
5°	1542.5	1541.9	1574.5	1653.8	1729.1	1805.5	1807.8	1767.0	1695.3	1616.5	1504.0
7.5°	1396.7	1419.4	1453.2	1579.8	1719.2	1776.3	1803.7	1755.9	1645.7	1533.1	1411.3
10°	1286.5	1298.1	1355.3	1508.1	1610.1	1686.5	1703.4	1676.0	1591.5	1450.9	1314.4
12.5°	1222.9	1228.7	1295.8	1424.1	1532.0	1588.5	1596.7	1609.5	1548.9	1417.1	1253.2
15°	1223.5	1228.1	1318.5	1425.8	1468.4	1453.2	1480.1	1479.5	1505.7	1410.7	1304.5
17.5°	1311.5	1316.8	1398.4	1451.5	1432.8	1397.3	1395.5	1422.3	1477.7	1490.6	1382.1
20°	1463.2	1475.4	1535.5	1532.6	1427.6	1355.9	1336.0	1356.4	1485.3	1558.2	1538.4
22.5°	1667.3	1684.2	1726.2	1645.7	1451.5	1327.9	1321.4	1361.1	1535.5	1709.2	1715.7
25°	1904.0	1932.6	1953.0	1849.8	1536.6	1376.3	1345.9	1414.2	1603.1	1873.1	1941.3
27.5°	2060.9	2090.6	2086.0	1938.4	1593.8	1389.1	1363.4	1427.0	1662.0	1912.2	2059.1
30°	2183.4	2201.4	2234.1	1986.3	1650.9	1425.2	1381.5	1481.2	1681.3	1979.8	2201.4
32.5°	2326.2	2338.5	2340.8	2070.8	1739.0	1470.7	1437.5	1548.9	1766.4	2044.6	2327.4
35°	2470.3	2488.4	2450.4	2175.2	1793.2	1555.3	1530.8	1666.1	1834.6	2111.6	2466.2
37.5°	2626.6	2635.9	2548.4	2218.3	1870.8	1692.9	1679.5	1792.6	1953.0	2232.9	2620.1
40°	2757.8	2766.5	2652.8	2271.4	1952.4	1885.4	1919.8	2034.1	2114.0	2311.7	2697.1
42.5°	2830.7	2851.1	2687.8	2242.3	2116.3	2103.5	2256.3	2296.5	2300.6	2333.8	2765.9
45°	2850.5	2841.2	2630.1	2266.2	2259.8	2462.1	2600.9	2654.0	2486.0	2374.6	2783.4
47.5°	2758.9	2771.2	2544.9	2245.2	2448.1	2733.9	2913.5	3012.0	2624.2	2339.1	2740.3
50°	2684.9	2669.1	2517.5	2230.0	2498.9	2862.2	3139.2	3161.3	2751.4	2382.8	2693.0
52.5°	2699.5	2709.4	2561.2	2270.3	2500.0	2869.7	3174.2	3159.0	2755.4	2372.9	2676.1
55°	2730.4	2686.6	2542.6	2181.6	2332.6	2658.1	2817.3	2793.9	2543.2	2267.3	2634.7
57.5°	2356.0	2423.6	2337.9	1947.8	1914.5	2002.6	1999.7	2071.4	1897.0	1951.3	2398.5
60°	1912.2	1923.9	1955.9	1666.1	1324.9	1294.6	1252.6	1207.1	1276.5	1668.4	2181.6
62.5°	1681.8	1667.8	1782.1	1515.6	935.4	783.2	776.2	804.2	985.0	1591.5	2046.3
65°	1222.3	1239.8	1322.6	1176.2	702.1	597.7	587.2	670.1	797.2	1275.4	1561.7
67.5°	746.4	780.3	787.9	725.5	476.4	378.5	363.3	438.5	575.6	825.2	915.6
70°	344.6	385.5	424.0	396.0	275.8	155.7	147.0	184.3	290.4	474.7	485.8
72.5°	104.4	105.0	147.0	153.4	89.2	35.0	30.9	40.8	98.6	156.9	165.0
75°	7.6	8.2	19.8	22.7	16.9	8.7	9.3	11.1	21.0	35.0	26.2
77.5°	0.6	0.6	0.6	2.9	5.2	5.8	7.6	8.7	11.1	12.8	11.7
80°	0.6	0.0	0.6	2.3	4.1	5.8	7.0	8.2	8.7	9.9	8.7
82.5°	0.0	0.0	0.0	1.7	4.1	5.8	6.4	8.7	9.9	11.7	9.9
85°	0.0	0.0	0.0	1.7	4.1	6.4	5.8	2.9	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°	1503.4	1503.4	1503.4	1503.4	1503.4	1503.4	1503.4	1503.4	1503.4	1503.4	1503.4
2.5°	1589.7	1567.0	1515.1	1488.8	1427.0	1418.3	1357.6	1347.7	1327.3	1316.2	1289.4
5°	1454.4	1427.0	1342.4	1271.3	1188.5	1130.8	1086.4	1046.2	1022.9	1001.3	1011.2
7.5°	1344.2	1264.3	1170.4	1051.4	955.8	894.0	826.3	770.9	738.3	716.1	721.4
10°	1228.7	1176.8	1046.2	912.6	797.2	753.4	700.4	657.8	611.7	572.1	553.4
12.5°	1192.6	1115.6	951.7	815.8	728.4	685.8	625.2	576.2	517.3	468.9	452.0
15°	1199.0	1124.9	926.1	780.9	677.6	604.2	531.8	471.2	406.5	372.6	355.1
17.5°	1303.4	1175.1	943.0	744.1	607.1	505.0	415.8	338.8	290.4	255.4	247.8
20°	1431.7	1283.5	979.1	717.3	549.3	401.8	303.8	237.3	197.1	191.3	189.5
22.5°	1619.4	1460.8	1056.7	699.2	478.8	313.2	208.2	172.6	161.5	160.4	161.0
25°	1881.9	1683.0	1141.2	684.0	425.7	241.4	170.3	146.4	142.9	141.1	144.0
27.5°	1995.6	1817.1	1186.2	651.4	377.3	217.5	168.0	145.2	135.3	132.4	134.1
30°	2136.1	1906.4	1256.7	595.4	306.2	179.0	156.9	158.0	153.4	138.8	134.1
32.5°	2322.7	2017.7	1292.3	555.8	273.5	148.1	114.9	105.6	117.8	120.1	124.2
35°	2442.3	2130.9	1310.4	532.4	256.6	126.5	97.4	88.6	85.7	86.3	88.6
37.5°	2664.5	2283.7	1333.1	507.9	243.8	110.2	88.1	79.9	75.8	75.8	78.1
40°	2797.4	2405.0	1364.0	494.5	230.9	100.3	79.9	72.9	69.4	69.4	70.6
42.5°	2830.7	2465.0	1353.5	489.9	216.4	98.0	72.9	67.6	63.6	63.0	62.4
45°	2890.2	2556.6	1355.3	484.6	201.2	89.2	68.8	63.0	57.1	56.6	56.0
47.5°	2955.5	2622.5	1358.8	464.2	186.6	74.6	71.7	58.3	51.3	50.2	50.2
50°	2899.5	2675.0	1389.1	443.8	168.0	60.6	70.6	54.8	45.5	43.7	44.3
52.5°	2906.5	2736.8	1453.2	415.2	144.6	48.4	57.1	51.9	41.4	38.5	39.1
55°	2794.5	2671.5	1462.0	384.9	113.1	37.3	43.7	45.5	35.0	33.8	33.8
57.5°	2405.5	2262.1	1290.0	312.0	74.6	30.9	31.5	39.7	30.3	29.2	29.7
60°	2058.6	1816.0	1038.0	205.9	46.7	24.5	22.7	40.2	26.8	26.2	28.0
62.5°	1876.6	1492.3	787.3	127.7	32.1	18.7	15.7	32.7	23.3	23.3	25.7
65°	1355.9	1002.5	457.8	67.1	22.7	14.6	11.7	18.7	19.2	19.8	21.0
67.5°	839.8	506.2	193.0	32.7	15.2	9.9	7.6	11.7	12.8	12.8	14.0
70°	414.6	201.8	64.1	18.7	11.7	8.2	5.2	6.4	6.4	5.8	6.4
72.5°	128.3	60.6	16.3	11.7	8.2	5.2	2.9	2.3	1.2	0.0	0.6
75°	14.6	11.7	10.5	8.2	5.2	2.3	0.6	0.0	0.0	0.0	0.0
77.5°	8.7	9.9	9.9	8.2	5.2	1.7	0.0	0.0	0.0	0.0	0.0
80°	7.0	7.6	8.2	7.6	4.7	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	8.7	9.9	11.1	9.9	6.4	2.9	1.2	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	1.7	0.6	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°	1503.4	1503.4	1503.4	1503.4	1503.4	1503.4	1503.4	1503.4	1503.4	1503.4	1503.4
2.5°	1278.3	1265.5	1283.5	1256.7	1256.1	1256.7	1249.1	1242.1	1253.2	1283.0	1285.9
5°	975.6	1003.0	1011.8	1040.4	1024.6	1001.3	1006.0	990.2	1028.7	1045.6	1032.2
7.5°	710.3	708.5	767.4	770.9	778.5	779.1	777.9	747.0	715.5	722.5	743.5
10°	551.1	521.3	549.9	547.0	565.7	560.4	568.0	534.8	545.8	545.8	559.3
12.5°	449.0	417.5	412.3	404.7	412.3	415.2	418.1	411.7	430.4	439.1	448.5
15°	342.9	325.4	320.7	306.2	308.5	316.7	323.7	326.6	320.7	334.2	335.3
17.5°	249.0	248.4	251.3	250.8	248.4	246.7	246.1	238.5	236.2	237.3	242.0
20°	188.9	193.6	203.5	213.4	218.7	212.3	203.5	190.7	185.4	186.6	187.2
22.5°	161.5	168.5	181.9	193.0	198.3	186.6	170.9	159.8	157.5	156.9	156.3
25°	146.4	154.5	164.5	168.0	167.4	160.4	148.7	144.0	142.9	141.7	136.5
27.5°	138.2	141.1	142.9	147.0	148.7	144.0	141.1	134.1	133.0	133.0	129.5
30°	133.5	131.8	134.1	131.2	133.5	130.0	130.6	130.6	127.7	128.9	128.9
32.5°	124.2	124.8	124.8	119.0	120.7	116.6	120.7	124.2	124.8	125.4	130.0
35°	91.0	101.5	106.7	106.7	108.5	105.6	105.0	100.9	95.6	90.4	88.1
37.5°	79.9	84.0	91.0	95.1	98.0	95.6	90.4	84.0	81.1	78.7	76.4
40°	71.1	74.6	79.3	84.0	89.8	86.9	78.7	75.8	72.3	72.3	70.0
42.5°	64.1	65.9	68.8	75.8	82.2	76.4	70.6	68.2	66.5	65.9	65.3
45°	57.7	58.3	61.2	67.1	74.6	68.8	63.0	60.1	60.6	61.2	60.6
47.5°	51.9	53.1	54.8	61.8	66.5	63.6	57.1	55.4	55.4	55.4	56.0
50°	44.9	47.8	51.3	57.1	60.6	58.9	53.7	51.3	50.2	50.2	50.7
52.5°	40.2	42.6	47.2	54.2	58.9	56.0	50.7	47.2	44.9	44.3	45.5
55°	35.0	39.1	46.7	51.9	58.3	55.4	49.6	45.5	41.4	40.8	40.8
57.5°	31.5	37.9	44.9	51.3	56.6	54.2	49.6	44.3	39.1	38.5	38.5
60°	29.7	36.7	43.7	49.6	56.6	53.1	49.0	43.2	37.3	37.3	36.7
62.5°	28.0	34.4	41.4	47.2	54.2	51.3	47.2	41.4	35.6	35.6	34.4
65°	23.3	29.7	34.4	39.7	47.2	44.3	40.2	36.2	31.5	30.3	30.9
67.5°	16.3	20.4	25.1	30.3	35.0	33.8	32.1	29.2	25.1	24.5	23.9
70°	8.2	11.1	15.2	20.4	24.5	23.3	22.2	19.8	17.5	16.9	16.9
72.5°	1.2	3.5	6.4	9.3	12.8	13.4	12.8	12.2	11.7	11.1	11.7
75°	0.0	0.0	0.0	2.3	5.2	6.4	7.6	8.7	8.7	7.6	9.3
77.5°	0.0	0.0	0.0	0.0	0.6	2.9	5.8	7.6	9.3	8.2	11.1
80°	0.0	0.0	0.0	0.0	0.6	3.5	5.8	8.2	9.3	8.2	11.7
82.5°	0.0	0.0	0.0	0.0	0.6	4.1	5.8	7.6	8.7	8.2	10.5
85°	0.0	0.0	0.0	0.0	1.7	3.5	2.3	1.2	0.6	0.6	1.7
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°	1503.4	1503.4	1503.4	1503.4	1503.4	1503.4	1503.4	1503.4	1503.4	1503.4
2.5°	1302.2	1343.6	1387.9	1404.8	1457.3	1497.0	1523.8	1581.5	1590.3	1590.9
5°	1046.2	1067.2	1143.0	1178.6	1256.7	1317.4	1382.1	1475.4	1537.8	1542.5
7.5°	743.5	801.8	833.9	926.6	1022.9	1117.9	1214.1	1322.6	1394.9	1396.7
10°	598.3	636.2	693.4	762.8	843.8	940.6	1068.9	1194.9	1268.4	1286.5
12.5°	481.7	548.2	613.5	685.2	747.0	819.9	958.1	1126.1	1186.7	1222.9
15°	370.9	431.5	508.5	592.5	662.5	759.9	917.3	1109.2	1211.2	1223.5
17.5°	273.5	327.7	398.9	478.2	583.2	721.4	924.3	1194.9	1291.1	1311.5
20°	196.5	228.0	284.0	376.1	509.7	676.5	931.3	1281.8	1428.2	1463.2
22.5°	155.7	168.5	205.3	286.9	427.5	629.2	980.9	1448.0	1616.5	1667.3
25°	135.3	142.3	159.8	226.3	375.6	624.6	1060.2	1647.4	1867.3	1904.0
27.5°	130.6	131.8	147.0	207.6	347.6	593.7	1090.5	1789.1	2023.6	2060.9
30°	137.6	156.3	157.5	175.5	295.7	532.4	1106.3	1926.2	2156.0	2183.4
32.5°	119.0	113.1	117.2	135.9	260.1	496.9	1136.0	2045.7	2307.0	2326.2
35°	82.8	86.9	96.2	117.8	227.4	459.5	1143.6	2177.5	2450.4	2470.3
37.5°	76.4	78.7	86.3	100.3	200.0	438.5	1133.1	2273.8	2599.2	2626.6
40°	71.1	74.1	78.1	91.0	179.6	415.2	1118.5	2360.6	2690.1	2757.8
42.5°	67.1	69.4	72.9	86.9	162.1	391.9	1098.1	2483.1	2771.8	2830.7
45°	62.4	65.9	70.0	84.6	152.2	376.1	1082.9	2475.5	2819.0	2850.5
47.5°	57.7	63.6	68.2	78.7	149.3	368.6	1089.3	2446.9	2780.5	2758.9
50°	53.1	60.6	68.8	65.3	142.3	353.4	1096.9	2486.0	2689.0	2684.9
52.5°	49.0	57.7	64.1	53.7	126.5	338.8	1170.4	2537.3	2753.7	2699.5
55°	43.2	51.9	51.3	43.2	102.6	327.7	1228.1	2538.5	2710.0	2730.4
57.5°	39.1	46.1	40.2	36.2	75.8	274.1	1134.3	2128.5	2319.8	2356.0
60°	36.2	44.9	30.3	28.6	49.6	197.7	990.2	1648.6	1844.0	1912.2
62.5°	33.2	42.6	23.9	23.3	34.4	140.5	814.1	1379.8	1589.1	1681.8
65°	29.2	30.3	19.2	18.1	24.5	75.8	495.7	950.0	1187.9	1222.3
67.5°	23.9	23.3	15.7	14.6	16.3	36.7	218.7	475.9	688.7	746.4
70°	19.2	19.2	13.4	11.7	11.7	16.9	57.1	189.5	311.4	344.6
72.5°	14.0	14.6	10.5	9.3	8.7	8.2	9.3	37.9	81.6	104.4
75°	12.2	12.8	10.5	8.2	6.4	5.2	4.1	3.5	4.7	7.6
77.5°	13.4	13.4	11.1	7.6	5.8	4.1	2.3	1.2	1.2	0.6
80°	16.9	17.5	14.6	9.9	7.0	4.7	2.9	1.2	0.6	0.6
82.5°	18.1	19.8	16.3	12.2	8.7	5.2	2.9	0.6	0.0	0.0
85°	4.7	7.6	12.8	11.1	8.7	5.2	2.9	0.6	0.0	0.0
87.5°	0.0	0.6	1.7	1.7	2.3	2.3	1.7	0.6	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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