

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: P450463

Luminaire Tested: **GALN-SA1B-730-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450463
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-730-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3766 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

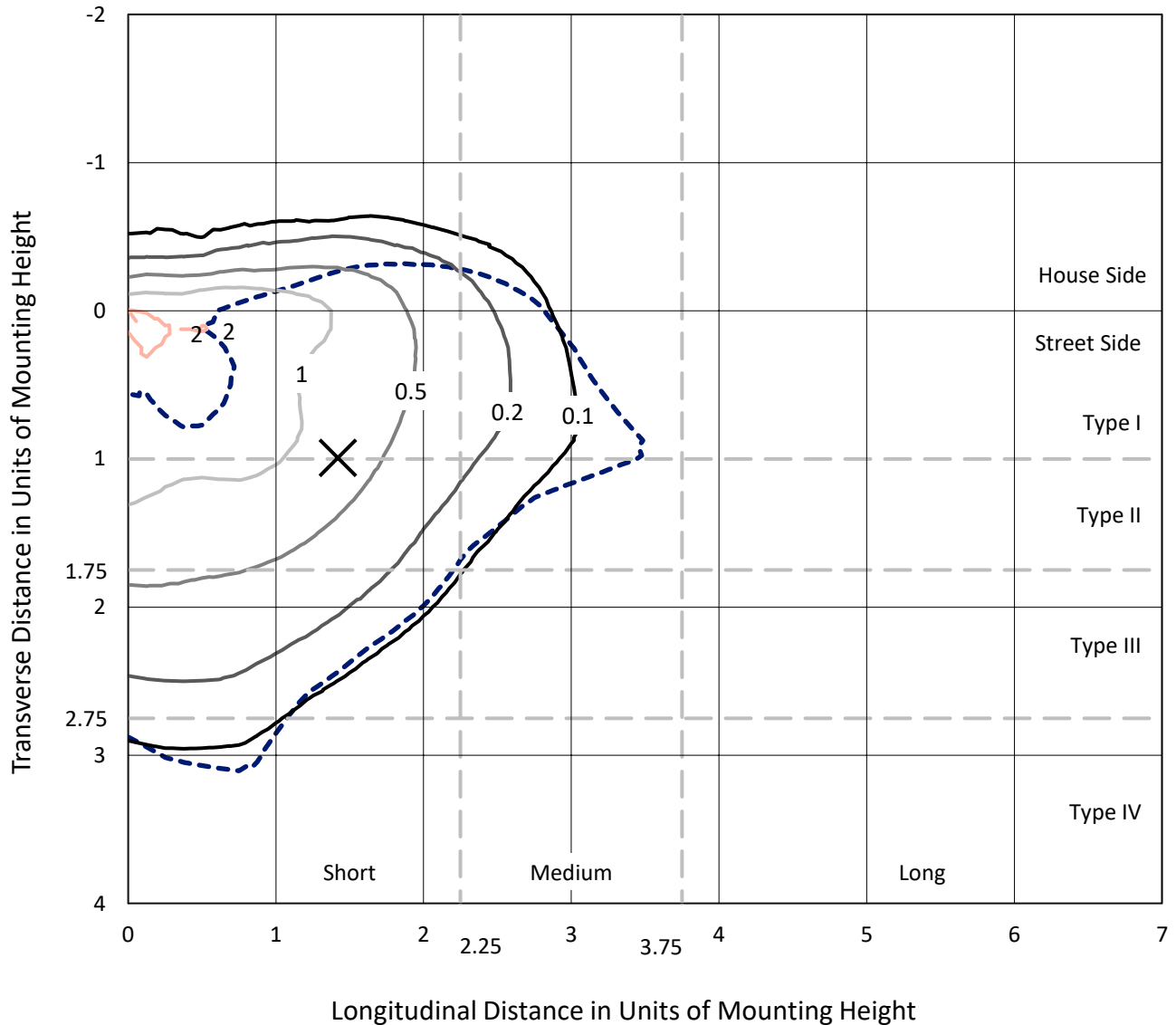
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

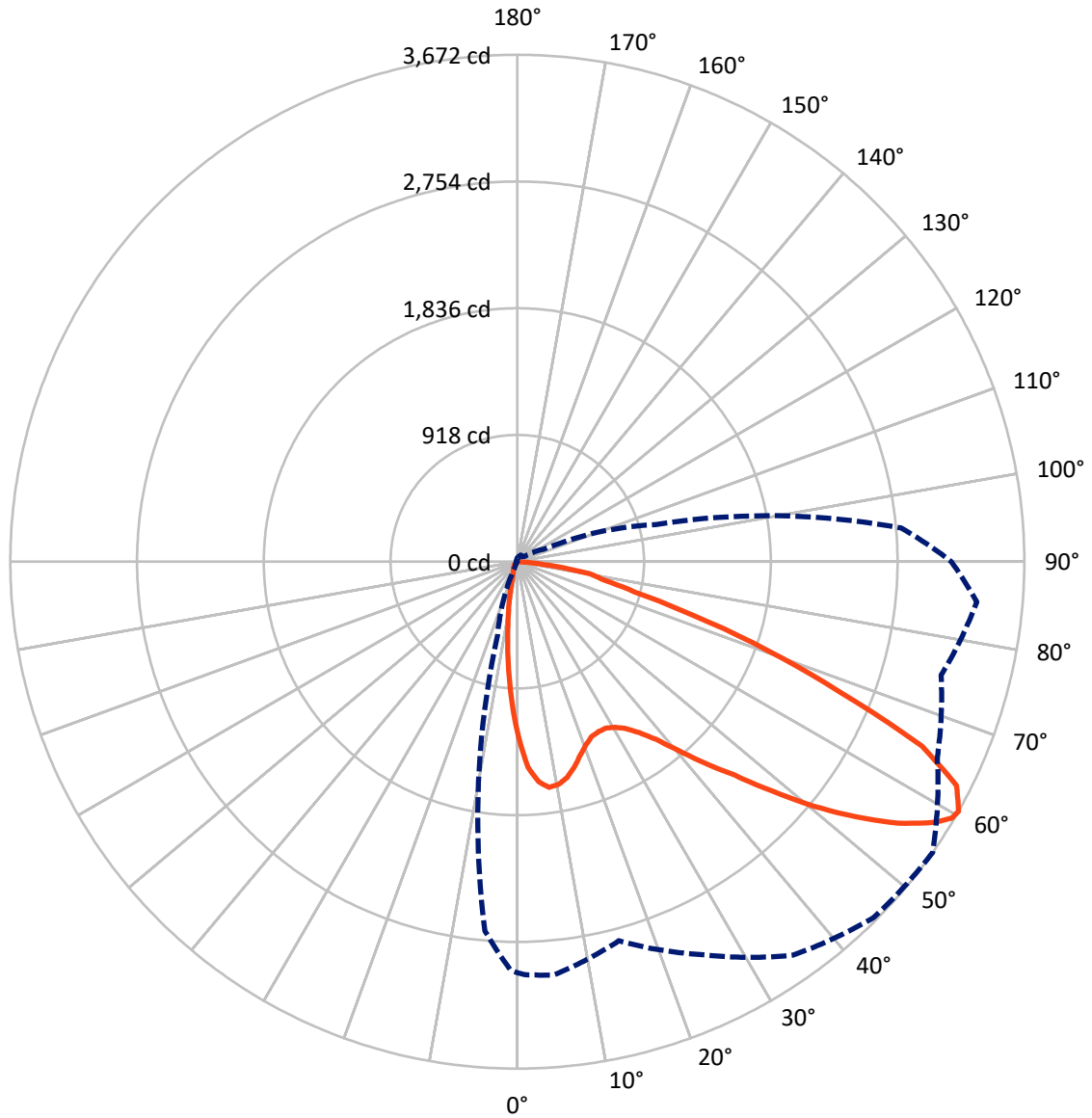
✕ Max cd
 - - - 1/2 Max cd



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 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	558.9	0.0	558.9
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	3207.1	0.0	3207.1
	% Fixture	85.2	0.0	85.2
Total	Lumens	3766.0	0.0	3766.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.4	2.5
10°-20°	186.0	4.9
20°-30°	275.2	7.3
30°-40°	410.3	10.9
40°-50°	600.8	16.0
50°-60°	867.4	23.0
60°-70°	912.5	24.2
70°-80°	375.4	10.0
80°-90°	44.0	1.2
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°	3766.0	100.0
0°-180°	3766.0	100.0

Coefficient of Utilization

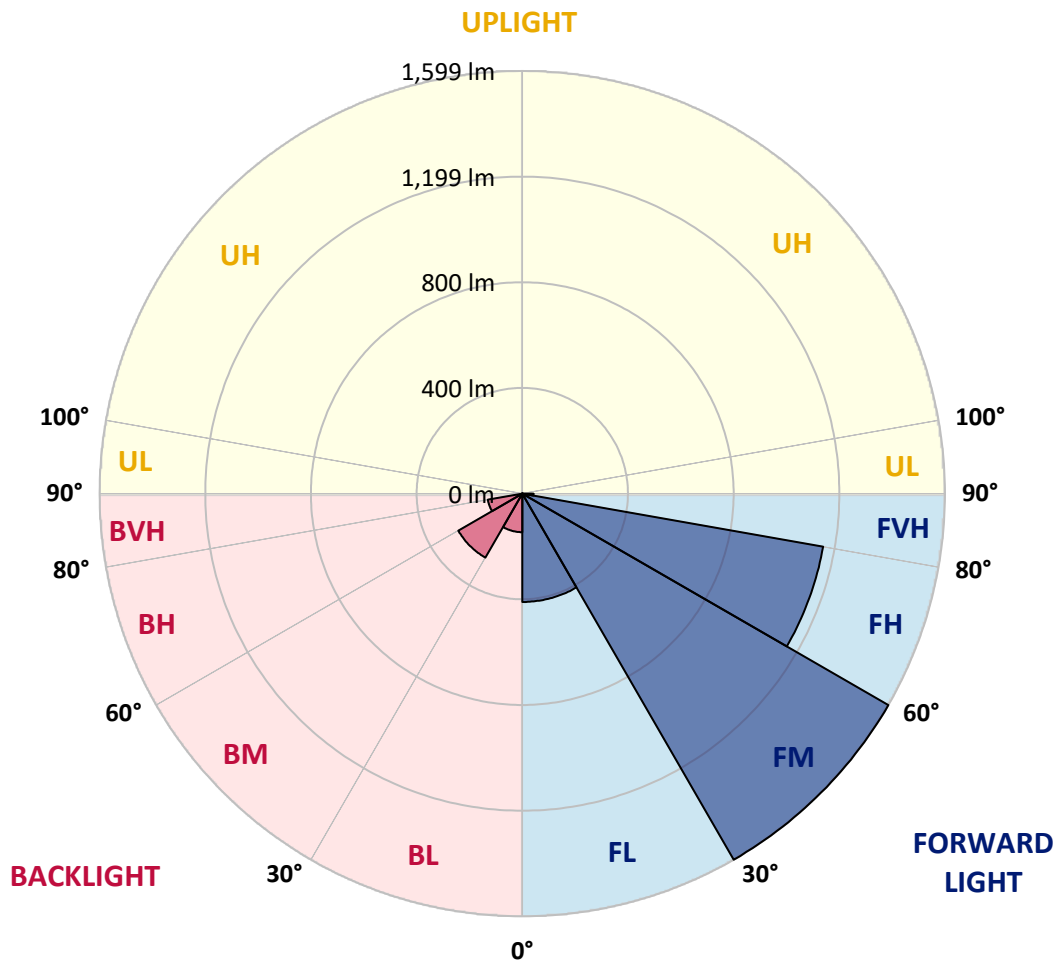


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	409.8	10.9			
FM (30°-60°)	1599.0	42.5			
FH (60°-80°)	1155.6	30.7			G1/1800
FVH (80°-90°)	42.7	1.1			G1/100
BL (0°-30°)	145.8	3.9	B1/500		
BM (30°-60°)	279.5	7.4	B1/1000		
BH (60°-80°)	132.3	3.5	B1/500		G1/500
BVH (80°-90°)	1.3	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°	1275.2	1275.2	1275.2	1275.2	1275.2	1275.2	1275.2	1275.2	1275.2	1275.2	1275.2
2.5°	1393.1	1390.8	1411.4	1445.0	1478.9	1496.6	1493.1	1491.7	1463.6	1443.0	1399.8
5°	1390.2	1402.1	1438.9	1530.0	1598.9	1632.3	1642.1	1600.7	1545.9	1466.5	1368.5
7.5°	1307.0	1321.8	1381.8	1524.2	1646.8	1719.2	1716.6	1650.3	1537.2	1414.3	1274.6
10°	1203.8	1221.2	1291.7	1464.4	1623.6	1719.2	1724.5	1640.4	1499.8	1342.1	1195.2
12.5°	1131.1	1151.7	1229.6	1408.8	1563.9	1658.1	1664.2	1603.3	1471.7	1314.3	1152.0
15°	1106.5	1125.9	1205.0	1380.7	1500.4	1551.1	1549.7	1543.3	1460.7	1321.0	1154.3
17.5°	1148.8	1164.7	1254.0	1393.4	1441.0	1435.7	1443.3	1474.0	1463.0	1376.9	1227.3
20°	1258.1	1274.3	1370.2	1432.6	1395.5	1362.4	1365.9	1417.2	1484.4	1482.1	1341.5
22.5°	1408.5	1436.0	1523.0	1508.5	1389.4	1316.9	1309.7	1376.3	1521.0	1603.3	1495.8
25°	1598.9	1626.8	1694.6	1629.7	1419.2	1306.2	1299.5	1363.9	1565.3	1721.6	1669.4
27.5°	1759.0	1780.1	1847.7	1747.7	1463.3	1310.8	1299.8	1365.6	1601.3	1822.2	1815.8
30°	1887.1	1902.7	1942.4	1802.7	1501.3	1331.1	1318.3	1391.1	1617.2	1871.1	1934.3
32.5°	1990.3	2016.7	2029.1	1861.6	1555.8	1369.4	1347.6	1440.1	1656.1	1931.7	2058.7
35°	2108.3	2138.7	2122.7	1917.8	1627.6	1429.1	1402.4	1519.5	1714.9	1987.7	2203.0
37.5°	2257.8	2292.9	2230.6	1976.9	1703.6	1518.9	1506.5	1631.1	1804.2	2067.7	2357.8
40°	2412.6	2432.9	2335.2	2048.8	1796.9	1649.7	1661.6	1796.9	1921.0	2163.6	2522.5
42.5°	2533.5	2552.6	2442.8	2109.1	1892.3	1804.8	1854.3	1996.9	2054.9	2261.9	2645.4
45°	2626.0	2642.2	2517.3	2174.9	2021.0	2029.4	2123.0	2203.0	2189.1	2321.9	2740.2
47.5°	2697.9	2711.8	2574.7	2245.7	2213.8	2304.2	2447.4	2481.3	2328.3	2386.8	2826.0
50°	2727.4	2731.5	2592.6	2335.8	2432.6	2654.4	2803.7	2783.1	2487.7	2459.0	2917.3
52.5°	2766.0	2765.1	2643.9	2421.6	2638.4	2967.4	3116.4	3069.8	2668.0	2567.1	3019.9
55°	2867.1	2868.3	2753.8	2543.4	2813.8	3220.2	3379.6	3345.7	2858.2	2749.7	3139.6
57.5°	2990.1	2994.4	2910.0	2685.7	2981.4	3403.4	3576.2	3563.1	3115.3	2952.9	3252.7
59°	3006.0	3014.7	2984.0	2786.0	3080.8	3459.7	3643.4	3656.2	3253.0	3086.9	3313.8
60°	2977.0	2991.5	3005.4	2842.8	3139.0	3479.9	3647.5	3672.4	3356.5	3177.9	3341.7
62.5°	2850.6	2873.5	2943.4	3017.6	3211.8	3416.7	3517.9	3570.1	3484.6	3417.0	3344.3
65°	2685.1	2697.0	2797.9	3048.6	3070.6	3121.7	3153.0	3219.9	3330.7	3509.2	3224.6
67.5°	2413.8	2448.9	2572.3	2868.6	2654.1	2593.8	2586.0	2519.3	2806.9	3289.5	2929.5
70°	1994.0	2009.7	2161.9	2351.8	2003.0	1910.3	1947.4	1922.4	2175.8	2831.8	2357.8
72.5°	1507.9	1543.3	1692.0	1874.6	1363.0	1242.7	1345.0	1335.7	1634.3	2275.8	1619.8
75°	1072.8	1095.7	1285.3	1467.1	954.6	808.7	845.6	880.1	1140.9	1796.9	957.2
77.5°	737.2	756.9	899.2	970.2	696.3	667.0	610.2	643.5	747.6	1066.2	520.9
80°	444.7	443.8	537.4	554.8	485.0	563.2	472.5	530.5	451.9	456.3	201.8
82.5°	288.7	285.8	328.7	358.3	269.9	283.8	190.4	274.5	294.5	127.3	63.8
85°	129.3	134.8	158.0	208.4	118.3	62.9	38.8	84.4	125.5	64.1	0.0
87.5°	13.3	10.4	27.8	50.7	16.2	1.7	5.8	2.9	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°	1275.2	1275.2	1275.2	1275.2	1275.2	1275.2	1275.2	1275.2	1275.2	1275.2	1275.2
2.5°	1379.8	1363.0	1312.8	1265.9	1225.6	1176.3	1144.4	1094.3	1063.8	1054.6	1056.0
5°	1324.4	1276.0	1180.7	1104.4	1019.5	971.1	897.5	826.7	788.5	774.3	767.9
7.5°	1208.5	1156.6	1041.5	921.8	830.8	745.8	691.1	628.7	586.1	551.1	545.0
10°	1122.4	1054.3	911.7	783.0	711.1	647.3	592.5	530.2	480.0	440.0	429.0
12.5°	1070.8	994.6	835.4	727.6	659.5	594.0	522.6	450.5	399.2	356.0	336.0
15°	1061.5	973.1	814.0	687.9	603.8	524.7	429.9	351.9	299.2	258.3	245.8
17.5°	1117.5	1011.7	810.8	646.4	531.0	418.9	320.3	255.7	196.2	173.3	164.4
20°	1217.2	1079.8	810.5	598.3	456.3	322.6	224.9	166.7	142.6	131.6	126.4
22.5°	1353.1	1172.5	825.9	556.8	378.6	238.0	160.6	132.8	118.8	109.9	107.8
25°	1519.2	1309.9	863.5	528.7	319.2	186.7	132.5	113.6	102.0	98.0	96.2
27.5°	1666.8	1441.5	905.0	499.7	276.5	165.2	122.9	104.1	94.8	91.6	89.0
30°	1794.0	1561.0	925.0	461.5	242.3	151.3	124.6	111.3	99.1	89.6	85.2
32.5°	1900.1	1652.6	938.0	426.7	213.3	123.8	98.6	86.1	80.6	77.1	74.2
35°	2032.9	1751.7	930.2	407.0	198.6	112.8	89.9	74.2	64.9	58.0	55.1
37.5°	2172.0	1850.8	916.6	390.8	191.9	104.6	85.5	70.4	60.3	53.0	49.3
40°	2316.1	1942.7	900.6	375.7	185.8	99.4	82.9	67.3	57.1	49.3	45.2
42.5°	2448.0	2032.3	894.3	365.8	176.0	100.3	80.9	65.8	53.9	45.8	42.3
45°	2554.7	2117.2	903.0	360.6	165.2	98.8	81.5	64.1	51.3	43.5	40.0
47.5°	2668.6	2237.3	931.1	355.4	154.8	91.9	85.8	63.8	50.1	42.0	38.3
50°	2801.1	2390.9	995.4	342.6	142.0	84.4	91.3	63.5	48.7	40.3	36.5
52.5°	2977.6	2565.4	1061.8	320.3	123.5	77.1	87.3	62.6	45.8	38.3	34.5
55°	3136.2	2749.2	1118.0	293.9	100.0	66.7	78.6	58.8	40.9	34.8	31.3
57.5°	3201.7	2852.9	1116.3	257.4	80.0	58.6	64.6	53.9	35.7	30.7	27.8
59°	3177.6	2839.9	1078.9	230.5	73.0	54.2	53.6	53.3	33.3	27.8	25.5
60°	3143.7	2792.4	1038.6	217.1	68.7	51.3	49.3	52.8	31.3	26.1	23.8
62.5°	3013.8	2595.2	905.0	194.5	62.9	43.5	39.4	44.6	27.8	22.6	20.6
65°	2825.7	2292.3	766.1	188.1	61.2	35.9	32.8	31.9	23.8	19.1	17.4
67.5°	2458.7	1939.8	620.6	183.8	61.7	30.1	28.7	24.1	19.7	15.9	14.8
70°	1968.5	1512.6	508.1	178.9	62.3	24.6	24.1	19.1	15.9	13.3	12.2
72.5°	1196.0	896.6	400.0	155.4	60.6	19.7	21.5	14.5	11.6	9.6	9.0
75°	739.5	613.7	248.1	120.9	40.0	14.5	15.1	9.0	7.8	6.1	6.1
77.5°	428.4	387.6	88.7	43.5	17.7	8.7	6.7	4.6	4.3	2.6	2.6
80°	177.7	142.3	30.7	14.8	9.6	4.1	1.4	0.3	0.0	0.0	0.0
82.5°	51.9	46.1	8.4	6.7	2.9	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°	1275.2	1275.2	1275.2	1275.2	1275.2	1275.2	1275.2	1275.2	1275.2	1275.2	1275.2
2.5°	1031.4	1021.8	1017.5	1032.2	1018.6	1036.0	1022.7	1028.5	1045.6	1053.1	1072.5
5°	771.9	762.1	757.4	779.8	778.6	789.6	788.5	798.6	807.3	787.9	807.9
7.5°	537.7	531.0	542.1	559.5	578.0	571.9	571.9	558.3	562.9	560.0	559.2
10°	409.0	386.1	380.3	379.7	386.7	388.1	380.3	361.5	368.4	370.5	382.6
12.5°	321.8	304.1	277.1	264.9	261.8	264.4	238.6	222.0	229.9	225.2	237.1
15°	230.7	216.2	200.3	186.7	182.9	177.7	149.6	129.9	127.5	128.4	130.4
17.5°	164.6	154.8	154.8	140.3	132.5	116.8	102.6	93.9	93.0	93.9	95.4
20°	121.5	116.2	115.7	111.9	103.2	92.8	82.9	81.2	80.6	82.0	82.6
22.5°	104.6	99.1	94.5	94.2	86.1	77.4	72.8	70.4	70.7	71.3	72.8
25°	93.6	87.8	82.9	80.0	74.2	68.1	63.8	62.6	62.6	63.5	63.8
27.5°	85.8	78.6	74.2	70.1	64.9	59.7	55.9	55.1	54.5	55.1	56.5
30°	80.3	73.0	67.5	61.5	57.4	52.5	49.3	48.1	47.8	48.1	49.3
32.5°	68.7	64.4	60.0	54.5	49.6	46.4	42.9	40.9	40.9	41.5	42.6
35°	51.9	49.6	49.3	47.8	43.8	40.3	36.2	34.2	34.2	35.4	35.9
37.5°	45.8	41.5	40.9	40.3	38.6	33.9	30.1	28.4	28.1	29.0	30.1
40°	41.7	36.8	34.2	33.6	33.9	28.7	24.6	22.9	22.9	23.2	24.3
42.5°	38.6	32.8	28.1	27.5	28.7	24.1	20.0	18.3	18.3	18.3	19.7
45°	35.9	29.3	23.8	20.9	22.6	19.7	16.2	14.5	13.9	14.5	15.1
47.5°	34.2	26.7	20.9	16.8	16.8	15.7	13.0	11.0	10.4	10.7	11.6
50°	32.8	24.3	17.7	13.6	12.2	12.5	9.9	8.4	7.8	7.8	8.7
52.5°	30.4	22.0	15.4	11.6	9.3	8.4	7.2	6.1	5.8	6.1	6.7
55°	27.5	20.0	13.3	9.6	7.2	5.8	5.2	4.3	4.1	4.3	5.2
57.5°	24.3	16.8	10.7	7.5	4.9	3.8	3.5	2.9	2.3	2.6	3.2
59°	22.3	15.1	9.3	6.1	3.8	2.6	2.6	2.0	1.4	1.7	2.6
60°	21.5	13.9	7.8	5.2	3.2	2.0	2.0	1.4	0.9	1.2	2.0
62.5°	18.3	11.6	6.1	3.2	1.4	0.3	0.9	0.3	0.0	0.3	0.9
65°	15.4	9.3	4.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.3
67.5°	12.8	7.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	10.1	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	4.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1.7	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	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°	1275.2	1275.2	1275.2	1275.2	1275.2	1275.2	1275.2	1275.2	1275.2	1275.2
2.5°	1073.7	1115.1	1140.7	1188.8	1238.1	1276.0	1323.6	1366.2	1383.9	1393.1
5°	828.2	885.9	934.8	1008.2	1076.3	1159.2	1243.3	1342.4	1380.4	1390.2
7.5°	581.2	640.0	691.4	776.3	873.4	984.4	1110.2	1236.0	1291.4	1307.0
10°	419.7	482.6	545.3	630.2	720.9	841.2	972.2	1127.9	1191.7	1203.8
12.5°	264.9	332.5	434.2	539.2	635.1	731.9	869.0	1038.3	1108.8	1131.1
15°	153.6	204.1	280.9	417.7	539.7	667.9	817.4	1004.7	1083.6	1106.5
17.5°	102.9	120.3	173.1	277.7	438.9	608.7	804.4	1032.2	1119.5	1148.8
20°	86.7	94.5	113.1	169.3	338.0	556.0	807.9	1107.0	1221.5	1258.1
22.5°	76.2	83.5	95.4	121.7	236.0	490.5	824.4	1214.0	1361.8	1408.5
25°	67.3	74.5	84.9	100.9	158.6	414.8	860.6	1370.5	1547.6	1598.9
27.5°	59.7	66.4	75.4	89.0	122.0	330.5	892.8	1523.0	1717.2	1759.0
30°	52.8	58.3	67.0	77.4	101.5	254.8	909.0	1656.3	1840.7	1887.1
32.5°	45.8	51.0	59.4	67.8	83.5	194.2	897.7	1754.3	1960.7	1990.3
35°	39.1	44.6	51.6	59.4	72.2	156.8	841.2	1864.5	2085.1	2108.3
37.5°	33.6	38.3	45.5	51.6	65.2	125.5	772.8	1963.6	2224.5	2257.8
40°	28.4	33.0	40.3	45.8	60.0	98.8	711.1	2073.8	2371.5	2412.6
42.5°	23.2	28.7	35.1	44.1	51.6	75.4	636.3	2163.0	2481.9	2533.5
45°	18.6	24.6	31.6	43.8	44.9	57.4	564.1	2232.6	2579.6	2626.0
47.5°	14.8	20.9	30.4	40.9	36.8	45.5	522.9	2305.4	2660.8	2697.9
50°	11.9	17.4	31.9	35.9	30.7	38.6	521.8	2386.5	2702.8	2727.4
52.5°	9.6	14.2	27.0	27.5	26.1	33.9	553.1	2477.8	2745.7	2766.0
55°	8.1	11.9	17.7	20.3	23.5	30.7	576.6	2618.4	2848.0	2867.1
57.5°	6.4	10.1	13.6	16.2	20.9	28.1	579.7	2726.8	2977.6	2990.1
59°	5.5	8.7	12.2	14.5	19.1	26.4	566.7	2733.5	2986.0	3006.0
60°	4.6	7.8	10.7	13.6	17.7	24.9	552.5	2685.1	2954.7	2977.0
62.5°	3.5	6.1	7.8	11.0	14.5	21.5	485.2	2516.1	2835.0	2850.6
65°	2.3	4.3	5.8	8.1	11.3	18.6	395.4	2297.0	2650.0	2685.1
67.5°	1.4	3.2	4.6	6.1	9.3	15.7	281.8	1969.7	2391.2	2413.8
70°	0.9	2.0	3.5	4.9	7.2	12.5	167.3	1556.9	1989.4	1994.0
72.5°	0.6	1.4	2.3	3.5	5.8	11.3	81.2	1014.9	1452.6	1507.9
75°	0.3	0.9	1.4	2.6	4.6	9.3	38.8	678.0	1056.9	1072.8
77.5°	0.0	0.3	0.9	1.7	3.5	7.2	22.6	445.2	720.6	737.2
80°	0.0	0.0	0.6	1.4	2.6	4.6	13.6	262.6	436.6	444.7
82.5°	0.0	0.0	0.3	1.2	1.7	3.5	7.0	115.4	285.8	288.7
85°	0.0	0.0	0.3	1.2	1.4	2.3	2.6	15.7	127.0	129.3
87.5°	0.0	0.0	0.3	1.4	1.4	1.4	1.4	0.9	10.7	13.3
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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