

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: P651679

Luminaire Tested: **GALN-SA1A-840-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651679
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-SA1A-840-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 615mA 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: 2151.3 lumens
Efficiency: N/A
Efficacy: 65.2 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

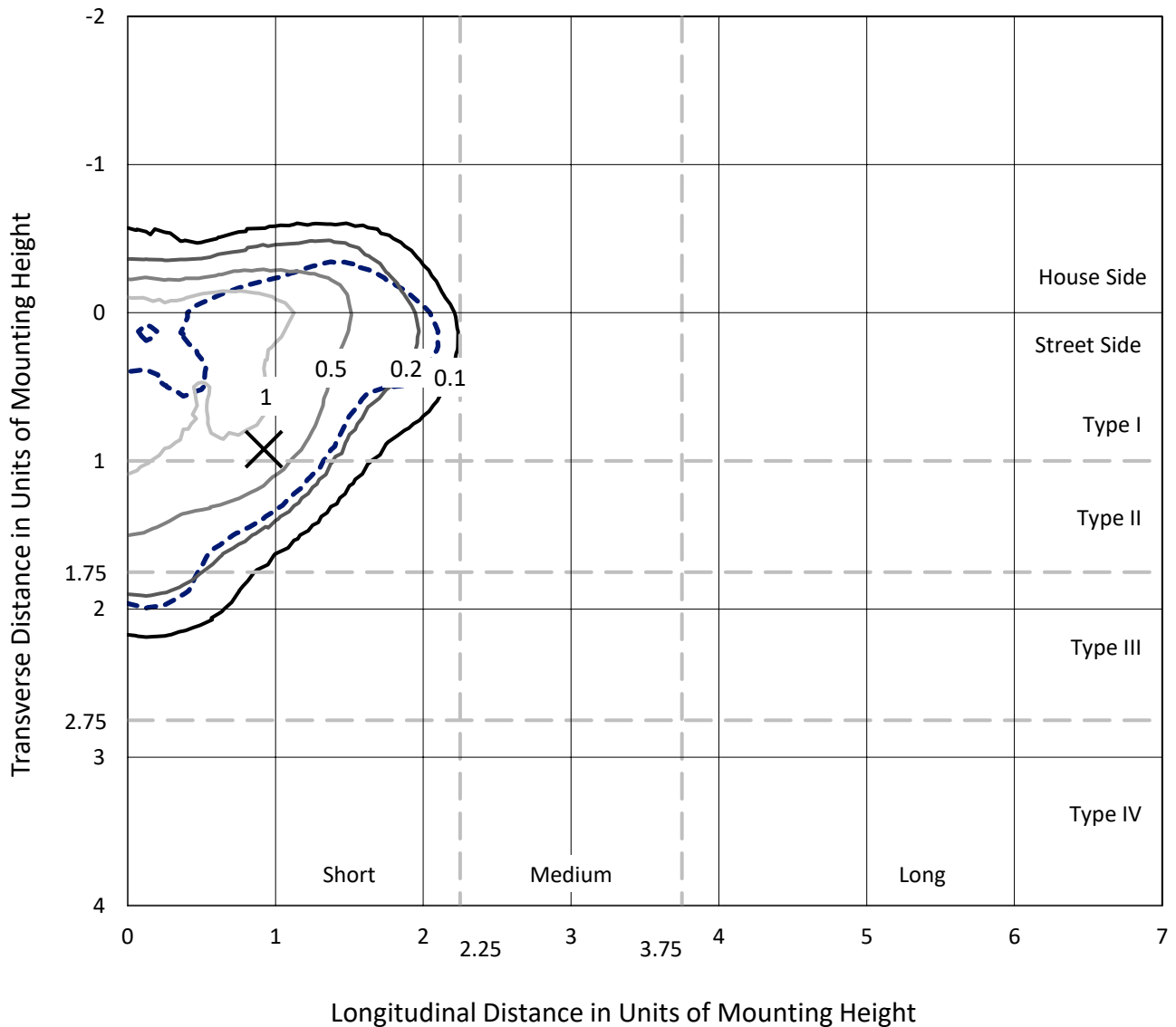
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

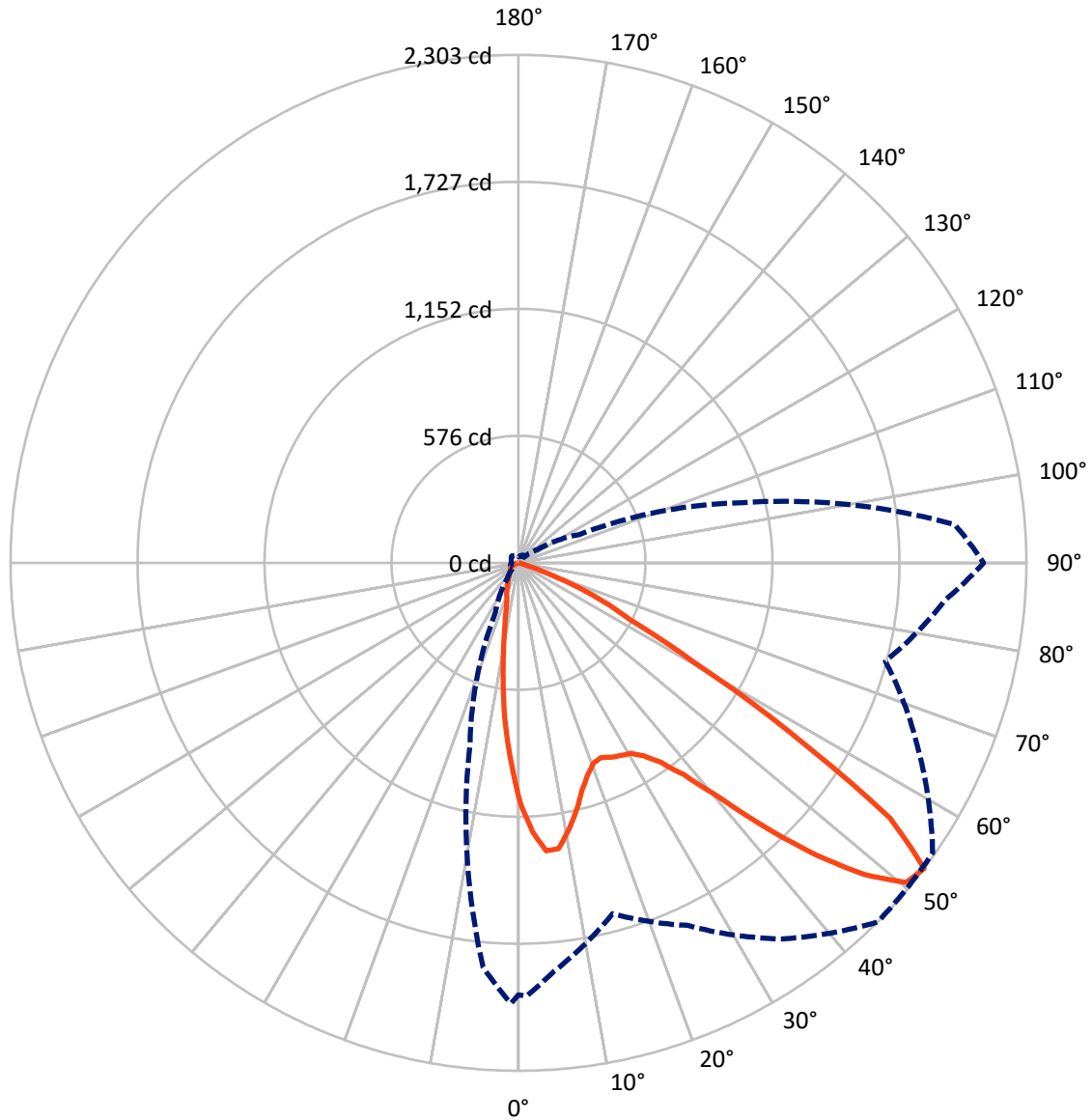
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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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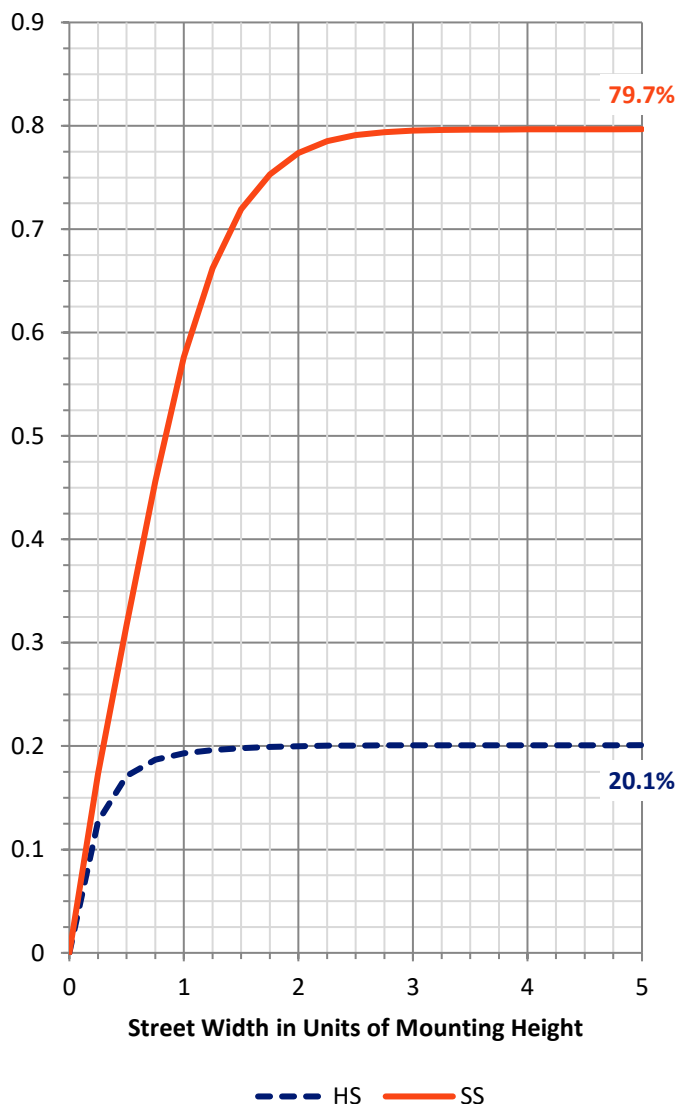
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	436.6	0.0	436.6
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	1714.7	0.0	1714.7
	% Fixture	79.7	0.0	79.7
Total	Lumens	2151.3	0.0	2151.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.6	3.7
10°-20°	156.9	7.3
20°-30°	238.9	11.1
30°-40°	357.0	16.6
40°-50°	508.4	23.6
50°-60°	546.5	25.4
60°-70°	242.2	11.3
70°-80°	19.6	0.9
80°-90°	2.3	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°	2151.3	100.0
0°-180°	2151.3	100.0

Coefficient of Utilization

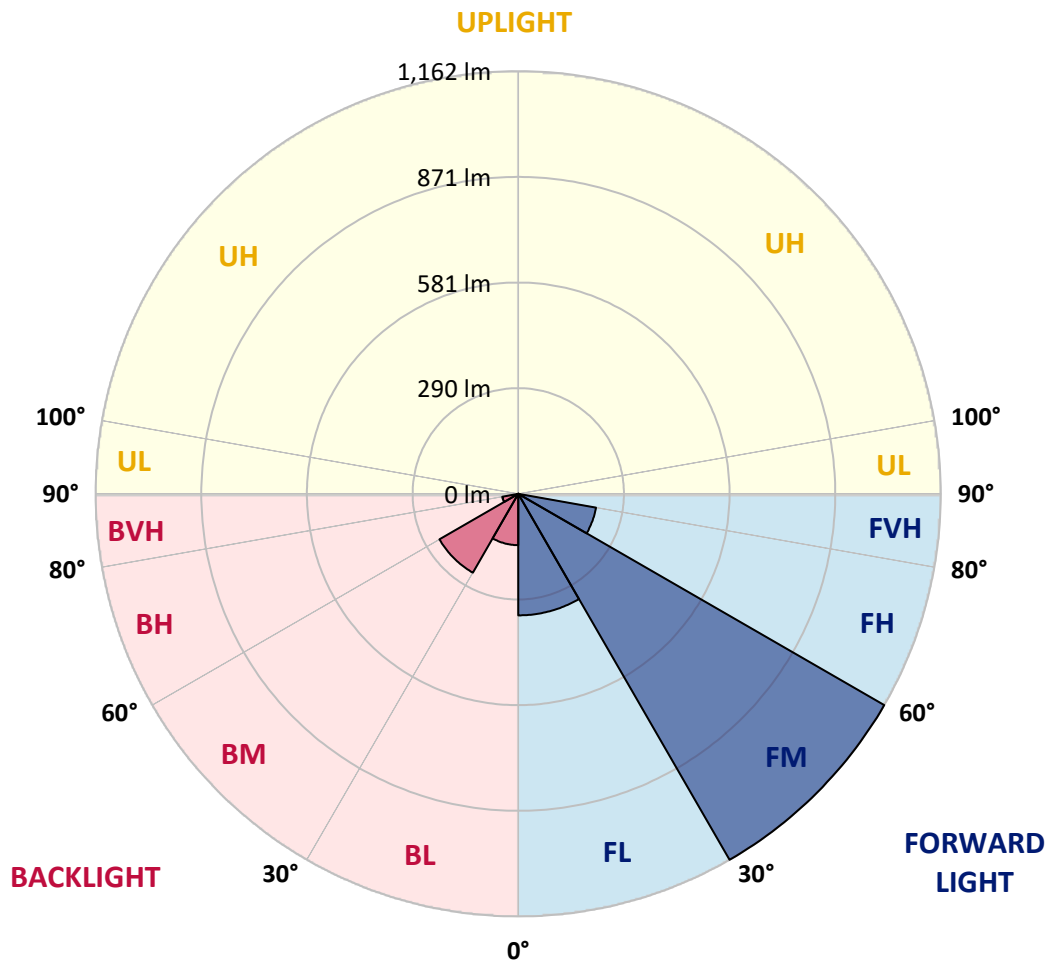


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	334.1	15.5			
FM (30°-60°)	1161.8	54.0			
FH (60°-80°)	217.1	10.1			G0/660
FVH (80°-90°)	1.7	0.1			G0/10
BL (0°-30°)	141.2	6.6	B1/500		
BM (30°-60°)	250.1	11.6	B1/1000		
BH (60°-80°)	44.7	2.1	B0/110		G0/110
BVH (80°-90°)	0.6	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°	1090.8	1090.8	1090.8	1090.8	1090.8	1090.8	1090.8	1090.8	1090.8	1090.8	1090.8
2.5°	1154.3	1157.6	1176.3	1199.5	1211.8	1239.7	1220.3	1225.3	1214.7	1177.6	1148.3
5°	1119.1	1118.7	1142.4	1199.9	1254.5	1309.9	1311.6	1282.0	1230.0	1172.9	1091.2
7.5°	1013.4	1029.9	1054.4	1146.2	1247.4	1288.8	1308.7	1274.0	1194.1	1112.4	1023.9
10°	933.4	941.8	983.3	1094.1	1168.2	1223.7	1235.9	1216.0	1154.7	1052.7	953.7
12.5°	887.3	891.5	940.2	1033.3	1111.5	1152.6	1158.5	1167.8	1123.8	1028.2	909.3
15°	887.7	891.1	956.6	1034.5	1065.4	1054.4	1073.9	1073.5	1092.5	1023.5	946.5
17.5°	951.6	955.4	1014.7	1053.1	1039.6	1013.8	1012.5	1032.0	1072.2	1081.5	1002.8
20°	1061.6	1070.5	1114.1	1112.0	1035.8	983.7	969.3	984.1	1077.7	1130.6	1116.2
22.5°	1209.7	1222.0	1252.4	1194.1	1053.1	963.4	958.8	987.6	1114.1	1240.1	1244.8
25°	1381.5	1402.2	1417.0	1342.2	1114.9	998.5	976.6	1026.0	1163.2	1359.1	1408.6
27.5°	1495.3	1516.9	1513.5	1406.4	1156.4	1007.9	989.3	1035.4	1205.9	1387.4	1494.0
30°	1584.2	1597.3	1620.9	1441.1	1197.8	1034.1	1002.4	1074.7	1219.9	1436.5	1597.3
32.5°	1687.8	1696.7	1698.4	1502.5	1261.8	1067.1	1043.0	1123.8	1281.6	1483.4	1688.6
35°	1792.3	1805.5	1778.0	1578.2	1301.1	1128.5	1110.7	1208.9	1331.1	1532.1	1789.4
37.5°	1905.7	1912.5	1849.0	1609.5	1357.4	1228.3	1218.6	1300.7	1417.0	1620.1	1901.1
40°	2000.9	2007.3	1924.8	1648.0	1416.6	1368.0	1392.9	1475.9	1533.8	1677.2	1956.9
42.5°	2053.8	2068.6	1950.1	1626.9	1535.5	1526.2	1637.0	1666.3	1669.2	1693.4	2006.9
45°	2068.2	2061.5	1908.2	1644.2	1639.6	1786.4	1887.1	1925.6	1803.8	1723.0	2019.6
47.5°	2001.7	2010.7	1846.5	1629.0	1776.3	1983.6	2113.9	2185.4	1904.0	1697.1	1988.2
50°	1948.0	1936.6	1826.6	1618.0	1813.0	2076.7	2277.7	2293.7	1996.3	1728.8	1954.0
52.5°	1958.6	1965.8	1858.4	1647.2	1813.9	2082.1	2303.0	2292.1	1999.2	1721.7	1941.7
55°	1981.1	1949.3	1844.8	1582.8	1692.5	1928.6	2044.1	2027.1	1845.2	1645.1	1911.7
57.5°	1709.4	1758.4	1696.3	1413.2	1389.1	1453.0	1450.9	1503.0	1376.4	1415.7	1740.3
60°	1387.4	1395.9	1419.1	1208.9	961.3	939.3	908.9	875.8	926.2	1210.5	1582.8
62.5°	1220.3	1210.1	1293.0	1099.7	678.7	568.3	563.1	583.5	714.7	1154.7	1484.7
65°	886.8	899.5	959.7	853.4	509.4	433.7	426.1	486.2	578.4	925.4	1133.1
67.5°	541.6	566.2	571.6	526.4	345.7	274.6	263.6	318.2	417.6	598.7	664.3
70°	250.0	279.7	307.6	287.3	200.2	112.9	106.6	133.7	210.8	344.4	352.5
72.5°	75.8	76.2	106.6	111.3	64.8	25.4	22.5	29.6	71.5	113.8	119.8
75°	5.5	5.9	14.4	16.5	12.3	6.3	6.7	8.1	15.2	25.4	19.0
77.5°	0.4	0.4	0.4	2.1	3.8	4.2	5.5	6.3	8.1	9.3	8.5
80°	0.4	0.0	0.4	1.7	2.9	4.2	5.0	5.9	6.3	7.2	6.3
82.5°	0.0	0.0	0.0	1.3	2.9	4.2	4.6	6.3	7.2	8.5	7.2
85°	0.0	0.0	0.0	1.3	2.9	4.6	4.2	2.1	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°	1090.8	1090.8	1090.8	1090.8	1090.8	1090.8	1090.8	1090.8	1090.8	1090.8	1090.8
2.5°	1153.4	1136.9	1099.3	1080.2	1035.4	1029.0	985.0	977.8	963.0	955.0	935.5
5°	1055.3	1035.4	974.0	922.4	862.3	820.4	788.3	759.1	742.2	726.5	733.7
7.5°	975.3	917.3	849.2	762.9	693.5	648.7	599.5	559.3	535.6	519.6	523.4
10°	891.5	853.9	759.1	662.2	578.4	546.6	508.1	477.3	443.9	415.1	401.6
12.5°	865.3	809.5	690.5	592.0	528.5	497.6	453.6	418.1	375.3	340.2	327.9
15°	869.9	816.2	671.9	566.6	491.6	438.3	385.9	341.9	294.9	270.4	257.7
17.5°	945.7	852.6	684.2	539.9	440.4	366.4	301.7	245.8	210.8	185.4	179.8
20°	1038.7	931.3	710.4	520.4	398.5	291.5	220.4	172.2	143.1	138.8	137.5
22.5°	1175.0	1059.9	766.7	507.3	347.4	227.2	151.0	125.2	117.2	116.4	116.8
25°	1365.4	1221.1	828.0	496.4	308.9	175.2	123.5	106.2	103.7	102.4	104.5
27.5°	1447.9	1318.4	860.6	472.6	273.7	157.9	121.9	105.4	98.1	96.0	97.3
30°	1549.9	1383.2	911.8	432.0	222.1	129.9	113.8	114.6	111.3	100.7	97.3
32.5°	1685.3	1464.0	937.6	403.3	198.5	107.5	83.3	76.6	85.4	87.1	90.2
35°	1772.0	1546.1	950.8	386.3	186.2	91.8	70.6	64.3	62.2	62.7	64.3
37.5°	1933.2	1656.9	967.2	368.5	176.9	80.0	63.9	57.9	55.0	55.0	56.7
40°	2029.7	1744.9	989.7	358.8	167.5	72.7	57.9	52.9	50.4	50.4	51.2
42.5°	2053.8	1788.6	982.0	355.4	157.0	71.1	52.9	49.1	46.1	45.7	45.2
45°	2096.9	1854.9	983.3	351.6	146.0	64.8	50.0	45.7	41.5	41.0	40.6
47.5°	2144.4	1902.8	985.9	336.8	135.4	54.2	52.1	42.3	37.3	36.4	36.4
50°	2103.8	1940.9	1007.9	322.0	121.9	44.0	51.2	39.8	33.0	31.7	32.1
52.5°	2108.8	1985.7	1054.4	301.2	105.0	35.2	41.5	37.7	30.0	27.9	28.3
55°	2027.6	1938.3	1060.8	279.3	82.1	27.1	31.7	33.0	25.4	24.6	24.6
57.5°	1745.3	1641.3	935.9	226.4	54.2	22.5	22.9	28.8	22.0	21.2	21.6
60°	1493.6	1317.6	753.1	149.4	33.8	17.7	16.5	29.2	19.4	19.0	20.3
62.5°	1361.6	1082.8	571.2	92.7	23.3	13.5	11.4	23.7	16.9	16.9	18.6
65°	983.7	727.4	332.1	48.7	16.5	10.6	8.5	13.5	14.0	14.4	15.2
67.5°	609.3	367.3	140.0	23.7	11.0	7.2	5.5	8.5	9.3	9.3	10.2
70°	300.8	146.4	46.5	13.5	8.5	5.9	3.8	4.6	4.6	4.2	4.6
72.5°	93.1	44.0	11.9	8.5	5.9	3.8	2.1	1.7	0.8	0.0	0.4
75°	10.6	8.5	7.7	5.9	3.8	1.7	0.4	0.0	0.0	0.0	0.0
77.5°	6.3	7.2	7.2	5.9	3.8	1.3	0.0	0.0	0.0	0.0	0.0
80°	5.0	5.5	5.9	5.5	3.4	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	6.3	7.2	8.1	7.2	4.6	2.1	0.8	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	1.3	0.4	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°	1090.8	1090.8	1090.8	1090.8	1090.8	1090.8	1090.8	1090.8	1090.8	1090.8	1090.8
2.5°	927.5	918.2	931.3	911.8	911.4	911.8	906.3	901.2	909.3	930.8	933.0
5°	707.9	727.8	734.1	754.9	743.4	726.5	729.9	718.5	746.4	758.7	748.9
7.5°	515.4	514.1	556.8	559.3	564.9	565.3	564.5	542.0	519.1	524.3	539.5
10°	399.8	378.3	399.0	396.9	410.4	406.6	412.1	388.0	396.0	396.0	405.8
12.5°	325.8	302.9	299.1	293.7	299.1	301.2	303.3	298.7	312.3	318.6	325.4
15°	248.8	236.1	232.7	222.1	223.8	229.8	234.8	236.9	232.7	242.5	243.3
17.5°	180.6	180.2	182.3	181.9	180.2	179.0	178.5	173.1	171.4	172.2	175.6
20°	137.1	140.4	147.7	154.8	158.7	154.0	147.7	138.3	134.6	135.4	135.8
22.5°	117.2	122.3	132.0	140.0	143.9	135.4	124.0	116.0	114.2	113.8	113.4
25°	106.2	112.1	119.3	121.9	121.4	116.4	107.9	104.5	103.7	102.9	99.0
27.5°	100.2	102.4	103.7	106.6	107.9	104.5	102.4	97.3	96.5	96.5	93.9
30°	96.9	95.6	97.3	95.2	96.9	94.4	94.8	94.8	92.7	93.5	93.5
32.5°	90.2	90.6	90.6	86.3	87.5	84.6	87.5	90.2	90.6	91.0	94.4
35°	66.0	73.6	77.5	77.5	78.7	76.6	76.2	73.2	69.4	65.6	63.9
37.5°	57.9	60.9	66.0	69.0	71.1	69.4	65.6	60.9	58.8	57.1	55.4
40°	51.6	54.2	57.5	60.9	65.2	63.1	57.1	55.0	52.5	52.5	50.8
42.5°	46.5	47.9	50.0	55.0	59.6	55.4	51.2	49.5	48.3	47.9	47.3
45°	41.9	42.3	44.4	48.7	54.2	50.0	45.7	43.6	44.0	44.4	44.0
47.5°	37.7	38.5	39.8	44.8	48.3	46.1	41.5	40.2	40.2	40.2	40.6
50°	32.5	34.7	37.3	41.5	44.0	42.7	38.9	37.3	36.4	36.4	36.8
52.5°	29.2	30.9	34.3	39.4	42.7	40.6	36.8	34.3	32.5	32.1	33.0
55°	25.4	28.3	33.8	37.7	42.3	40.2	36.0	33.0	30.0	29.6	29.6
57.5°	22.9	27.5	32.5	37.3	41.0	39.4	36.0	32.1	28.3	27.9	27.9
60°	21.6	26.7	31.7	36.0	41.0	38.5	35.6	31.3	27.1	27.1	26.7
62.5°	20.3	25.0	30.0	34.3	39.4	37.3	34.3	30.0	25.8	25.8	25.0
65°	16.9	21.6	25.0	28.8	34.3	32.1	29.2	26.2	22.9	22.0	22.5
67.5°	11.9	14.8	18.2	22.0	25.4	24.6	23.3	21.2	18.2	17.7	17.3
70°	5.9	8.1	11.0	14.8	17.7	16.9	16.1	14.4	12.7	12.3	12.3
72.5°	0.8	2.5	4.6	6.7	9.3	9.8	9.3	8.9	8.5	8.1	8.5
75°	0.0	0.0	0.0	1.7	3.8	4.6	5.5	6.3	6.3	5.5	6.7
77.5°	0.0	0.0	0.0	0.0	0.4	2.1	4.2	5.5	6.7	5.9	8.1
80°	0.0	0.0	0.0	0.0	0.4	2.5	4.2	5.9	6.7	5.9	8.5
82.5°	0.0	0.0	0.0	0.0	0.4	2.9	4.2	5.5	6.3	5.9	7.7
85°	0.0	0.0	0.0	0.0	1.3	2.5	1.7	0.8	0.4	0.4	1.3
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°	1090.8	1090.8	1090.8	1090.8	1090.8	1090.8	1090.8	1090.8	1090.8	1090.8
2.5°	944.9	974.9	1007.0	1019.3	1057.4	1086.2	1105.6	1147.5	1153.9	1154.3
5°	759.1	774.3	829.3	855.1	911.8	955.8	1002.8	1070.5	1115.8	1119.1
7.5°	539.5	581.8	605.1	672.3	742.2	811.1	880.9	959.7	1012.1	1013.4
10°	434.1	461.6	503.1	553.5	612.2	682.5	775.6	867.0	920.3	933.4
12.5°	349.5	397.7	445.1	497.2	542.0	594.9	695.2	817.0	861.0	887.3
15°	269.1	313.1	368.9	429.9	480.6	551.4	665.6	804.8	878.8	887.7
17.5°	198.5	237.8	289.4	347.0	423.1	523.4	670.6	867.0	936.8	951.6
20°	142.5	165.4	206.0	272.9	369.8	490.8	675.7	930.0	1036.2	1061.6
22.5°	112.9	122.3	148.9	208.1	310.2	456.6	711.7	1050.6	1172.9	1209.7
25°	98.1	103.3	116.0	164.2	272.5	453.1	769.3	1195.3	1354.9	1381.5
27.5°	94.8	95.6	106.6	150.6	252.2	430.8	791.2	1298.2	1468.2	1495.3
30°	99.8	113.4	114.2	127.3	214.5	386.3	802.7	1397.6	1564.3	1584.2
32.5°	86.3	82.1	85.0	98.6	188.7	360.5	824.3	1484.3	1673.8	1687.8
35°	60.0	63.1	69.8	85.4	165.0	333.5	829.7	1579.9	1778.0	1792.3
37.5°	55.4	57.1	62.7	72.7	145.2	318.2	822.1	1649.7	1885.9	1905.7
40°	51.6	53.7	56.7	66.0	130.4	301.2	811.6	1712.8	1951.9	2000.9
42.5°	48.7	50.4	52.9	63.1	117.7	284.3	796.8	1801.7	2011.1	2053.8
45°	45.2	47.9	50.8	61.4	110.4	272.9	785.7	1796.1	2045.3	2068.2
47.5°	41.9	46.1	49.5	57.1	108.3	267.4	790.4	1775.4	2017.4	2001.7
50°	38.5	44.0	50.0	47.3	103.3	256.4	795.9	1803.8	1951.0	1948.0
52.5°	35.6	41.9	46.5	38.9	91.8	245.8	849.2	1840.9	1998.0	1958.6
55°	31.3	37.7	37.3	31.3	74.4	237.8	891.1	1841.9	1966.3	1981.1
57.5°	28.3	33.4	29.2	26.2	55.0	198.9	823.0	1544.4	1683.2	1709.4
60°	26.2	32.5	22.0	20.8	36.0	143.5	718.5	1196.2	1337.9	1387.4
62.5°	24.1	30.9	17.3	16.9	25.0	102.0	590.6	1001.1	1153.0	1220.3
65°	21.2	22.0	14.0	13.1	17.7	55.0	359.6	689.3	861.9	886.8
67.5°	17.3	16.9	11.4	10.6	11.9	26.7	158.7	345.2	499.7	541.6
70°	14.0	14.0	9.8	8.5	8.5	12.3	41.5	137.5	226.0	250.0
72.5°	10.2	10.6	7.7	6.7	6.3	5.9	6.7	27.5	59.2	75.8
75°	8.9	9.3	7.7	5.9	4.6	3.8	2.9	2.5	3.4	5.5
77.5°	9.8	9.8	8.1	5.5	4.2	2.9	1.7	0.8	0.8	0.4
80°	12.3	12.7	10.6	7.2	5.0	3.4	2.1	0.8	0.4	0.4
82.5°	13.1	14.4	11.9	8.9	6.3	3.8	2.1	0.4	0.0	0.0
85°	3.4	5.5	9.3	8.1	6.3	3.8	2.1	0.4	0.0	0.0
87.5°	0.0	0.4	1.3	1.3	1.7	1.7	1.3	0.4	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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