

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: P450435

Luminaire Tested: **GALN-SA1B-727-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450435
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-727-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4151 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

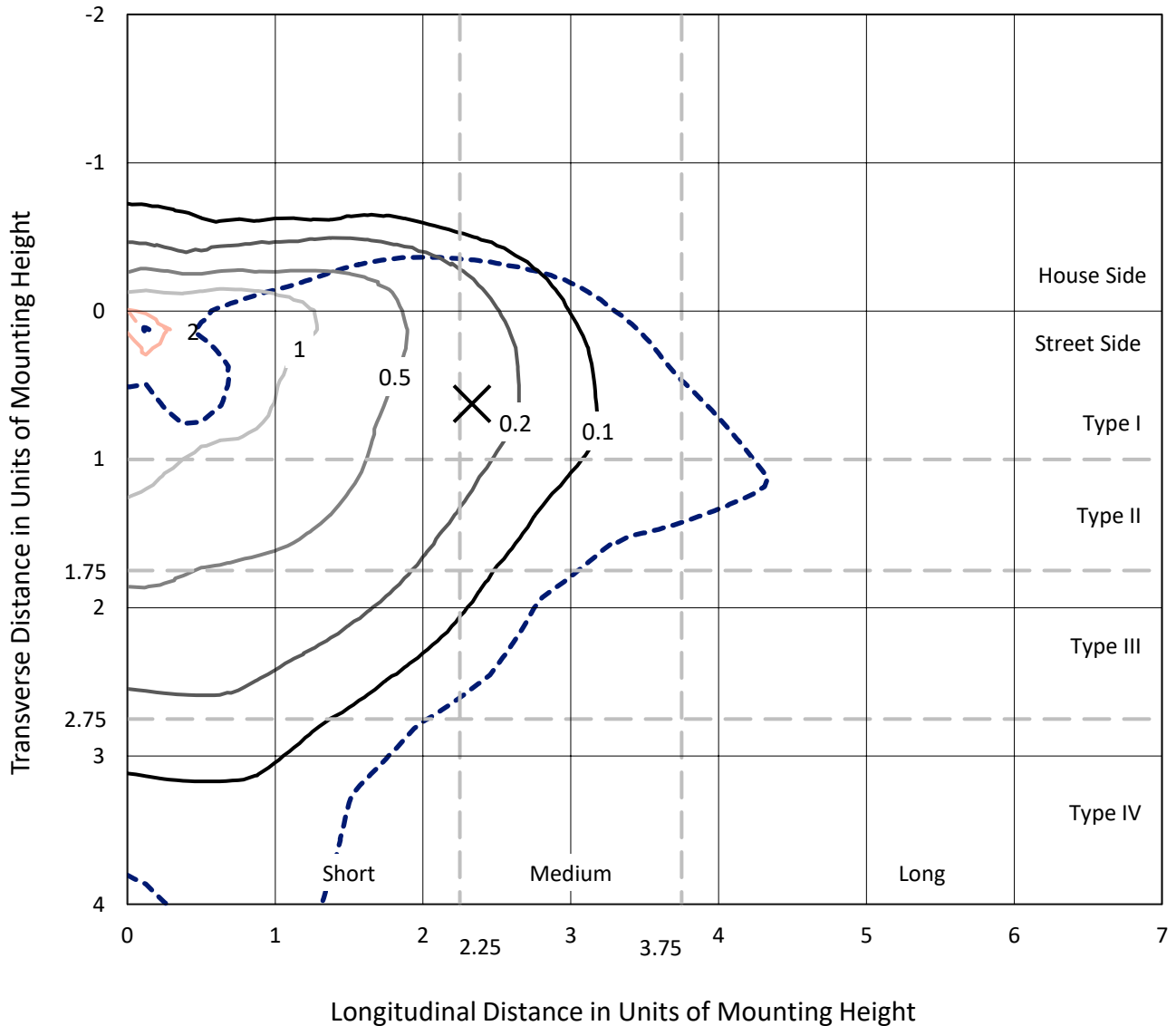
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

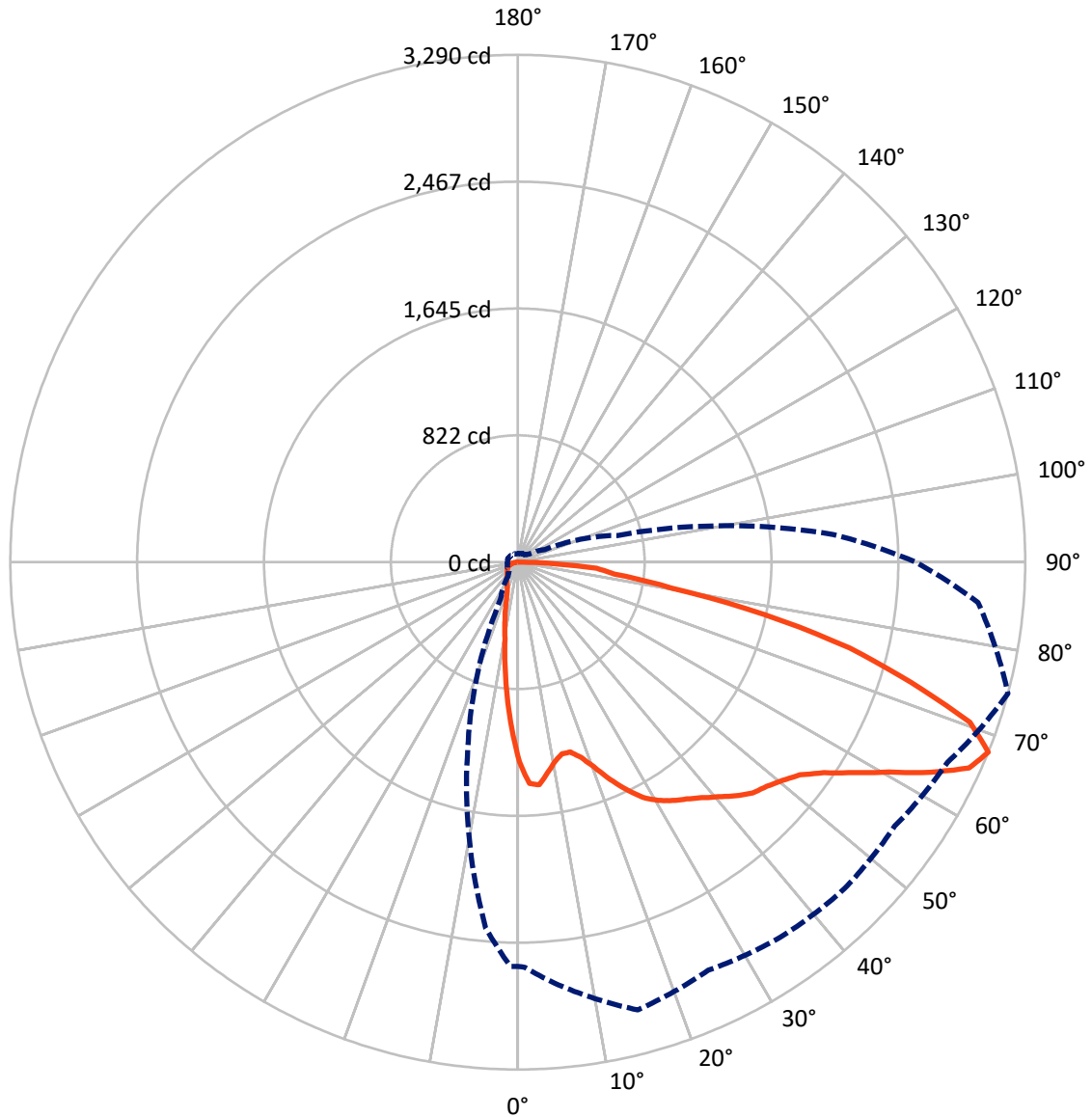
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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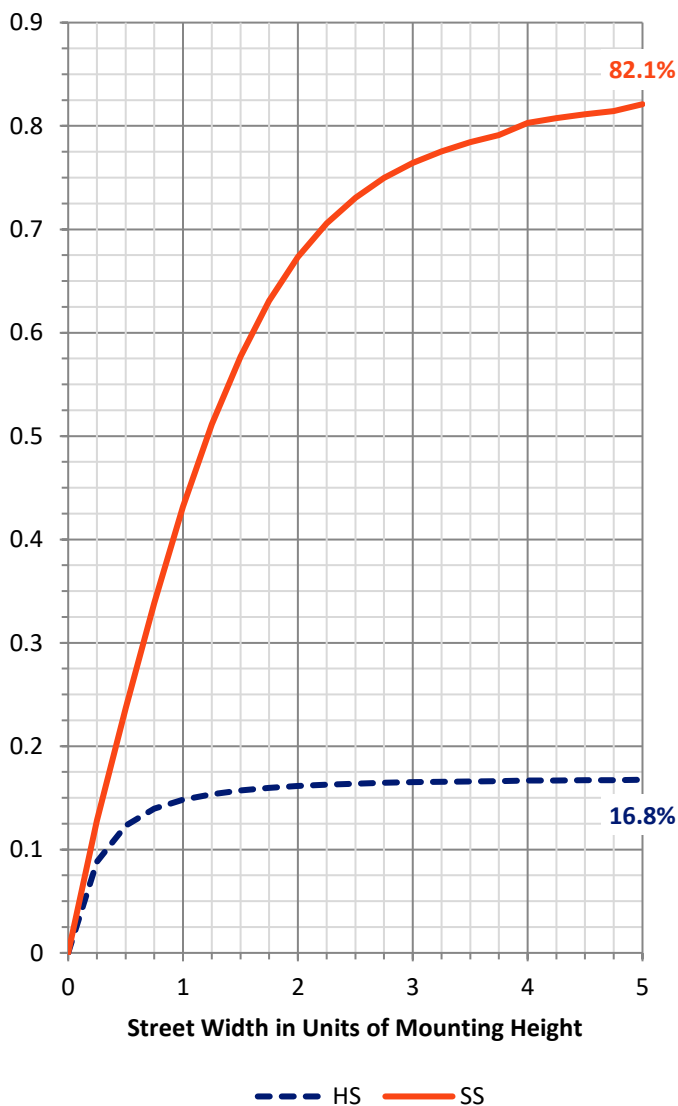
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	701.6	0.0	701.6
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	3449.4	0.0	3449.4
	% Fixture	83.1	0.0	83.1
Total	Lumens	4151.0	0.0	4151.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.4	2.4
10°-20°	205.1	4.9
20°-30°	295.2	7.1
30°-40°	425.2	10.2
40°-50°	597.3	14.4
50°-60°	833.0	20.1
60°-70°	990.3	23.9
70°-80°	583.3	14.1
80°-90°	123.3	3.0
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°	4151.0	100.0
0°-180°	4151.0	100.0

Coefficient of Utilization



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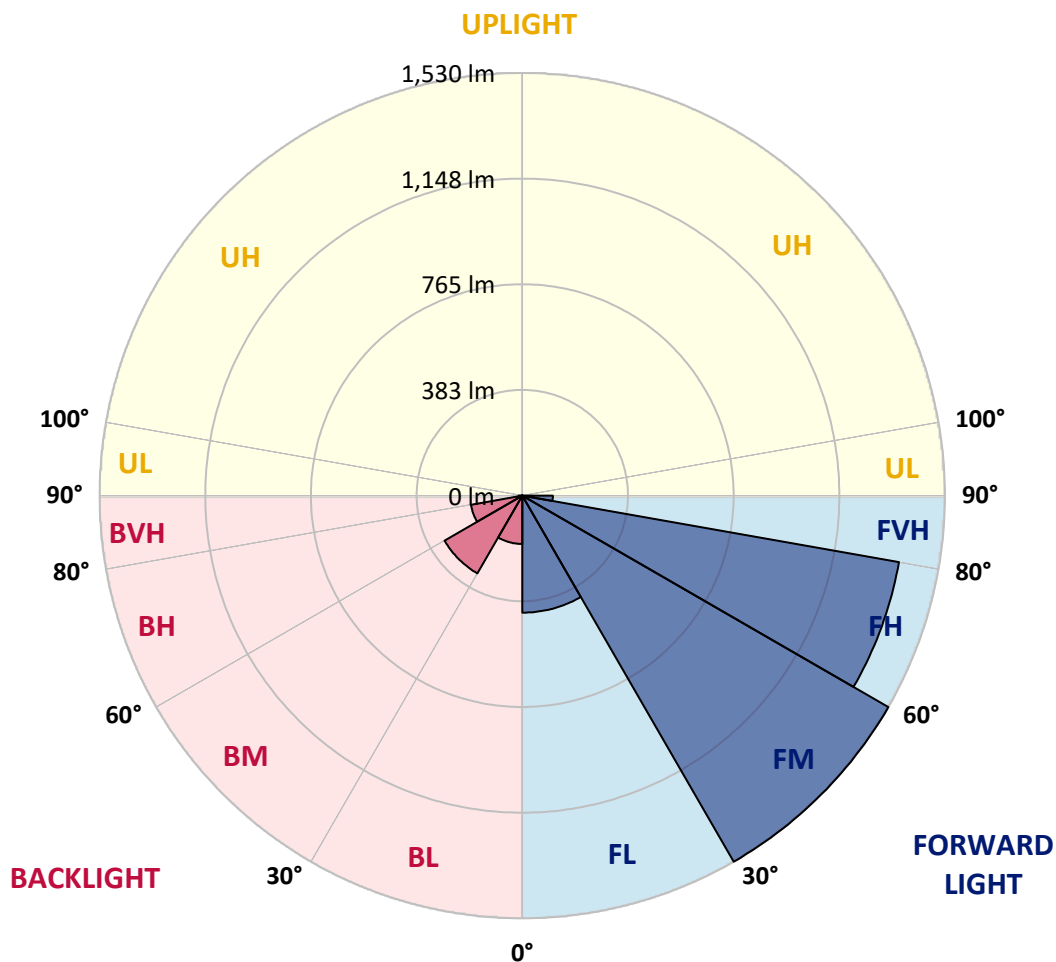
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	423.7	10.2			
FM	(30°-60°)	1530.3	36.9			
FH	(60°-80°)	1384.8	33.4			G1/1800
FVH	(80°-90°)	110.6	2.7			G2/225
BL	(0°-30°)	175.0	4.2	B1/500		
BM	(30°-60°)	325.1	7.8	B1/1000		
BH	(60°-80°)	188.8	4.5	B1/500		G1/500
BVH	(80°-90°)	12.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9
2.5°	1398.3	1400.2	1412.1	1447.0	1471.0	1479.7	1485.9	1474.4	1463.2	1436.1	1395.1
5°	1394.0	1404.9	1436.1	1514.3	1576.1	1602.7	1610.7	1576.4	1519.7	1449.9	1366.1
7.5°	1312.6	1327.2	1375.1	1506.4	1615.2	1677.5	1669.3	1607.2	1505.0	1380.7	1263.6
10°	1215.9	1232.2	1289.9	1448.6	1588.9	1674.6	1674.6	1599.0	1463.2	1315.5	1180.5
12.5°	1139.3	1156.3	1222.3	1389.2	1534.0	1615.2	1628.8	1563.9	1433.2	1274.2	1126.0
15°	1114.0	1130.5	1201.6	1353.3	1476.0	1525.5	1530.1	1508.8	1418.5	1277.2	1123.6
17.5°	1145.4	1166.7	1238.6	1364.0	1422.8	1425.7	1429.2	1445.9	1420.1	1330.7	1172.0
20°	1236.2	1259.1	1334.1	1398.3	1376.2	1345.8	1347.7	1390.8	1439.0	1419.1	1287.8
22.5°	1367.1	1387.1	1464.0	1458.7	1356.5	1293.9	1280.9	1341.1	1467.0	1529.3	1411.1
25°	1508.5	1531.9	1620.3	1548.4	1362.1	1263.1	1254.8	1311.8	1496.0	1632.3	1553.5
27.5°	1670.3	1693.2	1763.0	1638.9	1391.4	1260.7	1250.8	1309.1	1522.1	1727.6	1689.5
30°	1790.7	1811.7	1859.1	1715.1	1427.3	1276.6	1264.4	1330.1	1544.4	1792.8	1822.1
32.5°	1885.1	1907.0	1932.8	1762.4	1474.7	1305.7	1283.0	1368.5	1573.7	1842.6	1920.3
35°	1983.6	2009.5	2007.6	1804.5	1518.9	1339.2	1317.1	1423.8	1619.8	1885.9	2044.9
37.5°	2108.5	2118.9	2105.6	1842.3	1571.8	1399.6	1387.4	1506.1	1685.2	1938.4	2190.5
40°	2235.2	2255.9	2187.5	1888.1	1636.3	1513.3	1512.0	1627.7	1763.0	1999.9	2331.5
42.5°	2343.8	2361.4	2264.2	1928.0	1714.3	1652.0	1662.1	1790.9	1864.9	2071.2	2444.9
45°	2425.5	2441.2	2335.0	1966.6	1817.0	1812.2	1871.8	1965.8	1993.5	2135.4	2511.5
47.5°	2495.0	2510.2	2384.3	2025.2	1944.0	2003.6	2107.4	2148.1	2103.4	2172.1	2586.0
50°	2553.5	2558.1	2418.1	2094.9	2101.6	2238.1	2338.7	2365.1	2212.0	2224.8	2650.7
52.5°	2614.5	2608.6	2476.4	2182.7	2271.9	2460.6	2533.8	2561.3	2316.1	2289.8	2744.9
55°	2751.1	2756.6	2607.1	2293.5	2444.1	2679.2	2775.5	2749.2	2431.4	2409.3	2864.7
57.5°	2916.1	2911.3	2791.0	2466.8	2619.6	2882.6	2954.4	2912.1	2585.2	2573.5	2986.1
60°	2980.2	2986.6	2944.8	2653.1	2792.6	3060.6	3134.1	3068.4	2769.7	2764.4	3077.7
62.5°	2915.8	2951.8	2980.0	2818.9	2940.1	3191.6	3264.5	3189.5	2962.1	3000.7	3141.8
65°	2787.5	2795.2	2891.3	2959.5	3011.1	3213.2	3251.2	3211.3	3122.9	3216.1	3138.9
67.5°	2620.9	2627.5	2740.1	3005.5	2919.6	2968.3	2994.9	2983.2	3073.1	3289.8	2994.4
70°	2462.2	2456.9	2575.9	2888.1	2541.6	2467.6	2489.7	2452.9	2651.8	3109.6	2710.9
72.5°	2153.5	2172.6	2300.4	2561.8	2012.4	1892.1	1940.2	1845.2	2039.5	2663.2	2200.3
75°	1686.8	1691.4	1904.6	2150.0	1518.1	1328.3	1393.5	1353.8	1562.3	2221.6	1519.4
77.5°	1168.0	1157.9	1387.1	1642.1	1082.6	972.4	973.5	954.6	1090.8	1635.7	1032.3
80°	741.9	726.4	868.3	1014.4	744.0	795.9	769.8	769.0	710.2	1009.1	624.2
82.5°	400.9	417.9	548.6	635.9	533.7	615.2	563.8	547.3	487.4	631.7	399.3
85°	182.6	198.6	292.5	432.6	405.4	409.9	273.9	323.2	403.3	512.9	213.2
87.5°	17.8	22.9	60.4	204.2	138.4	109.1	40.7	78.5	101.4	182.3	17.0
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°	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9
2.5°	1378.3	1364.5	1317.4	1278.5	1237.2	1205.8	1164.8	1137.4	1118.5	1090.0	1086.6
5°	1315.0	1281.2	1199.2	1115.6	1043.5	989.2	934.1	883.5	853.7	844.4	832.4
7.5°	1208.2	1151.3	1045.9	950.0	867.2	786.3	724.0	679.8	650.3	633.0	612.2
10°	1120.4	1054.4	926.1	808.7	740.5	690.2	635.4	588.0	551.5	520.4	503.4
12.5°	1061.3	986.8	842.5	747.2	694.5	641.0	576.8	523.6	469.8	434.4	419.2
15°	1043.5	964.7	816.7	716.6	641.0	571.0	499.1	429.6	376.4	342.9	331.7
17.5°	1087.1	991.8	816.4	675.9	578.2	494.6	402.5	337.3	282.7	257.7	249.7
20°	1168.6	1044.0	818.8	635.7	510.0	392.4	292.8	239.3	213.2	202.6	198.6
22.5°	1282.2	1123.6	826.0	596.0	435.5	301.3	219.3	192.2	182.9	181.0	180.2
25°	1422.2	1222.1	850.2	560.3	372.7	230.0	183.4	171.2	165.8	164.0	163.7
27.5°	1551.1	1349.3	879.5	529.7	312.0	198.3	165.8	155.5	150.1	149.9	150.4
30°	1667.4	1455.8	904.0	495.4	265.9	176.2	154.4	144.0	139.0	138.7	140.3
32.5°	1768.0	1543.4	922.1	461.6	240.4	162.6	144.0	132.8	128.6	127.8	128.6
35°	1875.6	1630.7	913.8	435.2	225.7	151.5	136.3	125.4	120.3	117.9	117.9
37.5°	1998.3	1720.6	899.7	413.4	219.1	142.1	129.6	119.0	113.9	111.5	111.3
40°	2132.2	1810.6	880.3	394.0	212.4	136.6	125.1	113.9	107.8	105.4	104.9
42.5°	2250.4	1887.5	864.3	381.2	201.5	137.6	121.1	110.2	102.5	99.3	99.0
45°	2353.1	1965.0	861.4	373.7	192.5	136.0	120.1	107.3	98.2	94.8	94.2
47.5°	2433.5	2045.7	878.2	369.5	182.6	127.5	127.0	105.4	94.5	90.8	90.2
50°	2531.5	2160.1	916.5	360.7	173.6	119.5	134.2	105.1	91.6	86.8	85.4
52.5°	2661.9	2309.2	968.4	345.0	160.5	112.1	128.0	105.1	88.1	83.3	81.7
55°	2859.1	2499.2	1019.2	322.9	142.1	102.2	115.5	102.0	83.1	78.8	77.7
57.5°	2989.8	2638.2	1051.7	292.3	119.3	95.0	99.6	96.9	78.0	73.5	73.5
60°	2996.5	2675.5	1036.3	253.7	104.9	88.4	86.5	97.7	73.5	68.7	68.1
62.5°	2919.8	2584.2	955.9	219.1	97.2	81.2	78.3	85.7	68.9	64.2	63.4
65°	2800.0	2351.2	816.4	202.6	92.9	74.8	70.5	70.3	64.2	59.6	58.6
67.5°	2579.9	2054.7	670.8	193.0	90.8	67.6	63.6	62.3	58.6	54.8	54.3
70°	2255.4	1720.9	538.0	189.0	89.7	60.2	57.0	55.4	52.2	49.2	49.0
72.5°	1754.7	1395.9	444.0	186.3	89.2	53.2	49.8	47.6	45.8	43.1	43.1
75°	1260.4	1027.0	338.9	168.0	82.5	45.8	42.1	40.7	38.1	35.9	36.5
77.5°	794.6	691.6	223.1	123.5	63.9	36.7	33.5	32.7	30.6	27.7	29.5
80°	536.6	486.3	130.2	77.7	40.2	26.9	25.8	25.6	23.2	20.0	20.2
82.5°	365.2	358.3	67.6	44.2	23.2	15.7	15.2	15.7	13.0	10.6	10.6
85°	142.7	194.9	31.9	17.3	7.5	2.4	3.5	3.7	2.1	1.1	1.3
87.5°	2.7	20.0	0.8	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°	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9
2.5°	1081.3	1078.9	1082.9	1065.8	1069.3	1075.7	1078.9	1080.7	1107.1	1101.0	1117.7
5°	843.6	841.2	856.6	858.7	866.7	865.1	872.8	874.7	884.3	887.7	911.2
7.5°	613.6	623.9	641.5	650.6	664.1	668.4	664.4	674.3	654.3	668.7	672.9
10°	493.0	480.5	473.0	493.8	496.4	516.1	508.2	501.8	513.5	514.0	525.2
12.5°	410.5	383.6	365.7	371.6	378.0	386.5	387.8	400.6	409.1	417.1	423.8
15°	321.8	312.5	296.3	288.3	297.3	300.8	309.0	319.7	328.7	331.1	340.2
17.5°	247.0	248.6	246.0	241.2	246.8	249.4	250.0	250.2	252.6	251.0	264.3
20°	198.8	204.4	211.1	212.2	214.0	215.3	213.0	203.9	204.2	209.8	214.0
22.5°	179.9	181.0	188.5	190.9	196.7	194.3	187.4	183.1	182.6	183.9	186.1
25°	165.0	166.6	172.0	175.7	180.2	176.0	170.9	166.9	166.4	167.7	169.8
27.5°	151.7	154.1	158.9	162.6	166.9	162.9	158.1	154.7	154.4	154.1	155.5
30°	141.1	143.7	147.2	151.5	154.4	150.9	146.4	144.5	144.3	143.7	144.3
32.5°	130.4	134.7	138.2	140.3	143.2	140.5	137.1	136.0	134.2	132.6	131.8
35°	118.5	123.0	128.3	131.0	133.9	131.2	128.8	124.3	121.1	120.8	121.4
37.5°	111.5	113.4	117.7	122.2	125.1	123.8	119.3	114.7	113.9	113.9	114.5
40°	105.4	106.2	108.1	113.9	119.3	115.3	109.7	108.3	108.3	108.1	108.3
42.5°	99.3	100.1	100.1	104.6	113.1	106.7	102.5	102.5	102.5	102.7	103.5
45°	93.7	94.0	93.7	96.9	104.9	99.6	96.6	97.4	98.0	98.5	99.0
47.5°	88.9	89.2	88.9	91.6	95.6	93.4	91.8	92.9	94.0	94.8	95.3
50°	84.6	84.4	84.9	86.5	88.4	88.9	87.8	89.4	90.0	91.0	92.4
52.5°	80.9	80.7	81.2	82.0	84.6	84.6	84.6	86.0	87.0	88.1	90.0
55°	76.7	76.9	77.7	78.8	82.3	81.7	82.0	83.1	84.1	85.7	86.8
57.5°	72.7	73.2	74.3	75.9	79.3	79.1	79.3	79.9	81.2	82.0	83.1
60°	68.1	69.2	70.5	71.6	75.1	74.8	76.1	77.2	78.0	78.0	78.5
62.5°	63.6	65.2	66.5	67.3	71.1	71.3	73.2	74.0	74.5	74.0	74.8
65°	59.1	61.5	62.0	63.1	66.8	67.1	69.2	71.1	70.5	70.0	71.3
67.5°	54.6	57.5	57.2	58.6	62.3	62.8	64.7	67.9	66.8	66.3	67.3
70°	49.5	51.6	51.9	52.7	57.8	57.0	59.9	62.8	62.0	62.3	62.3
72.5°	43.9	45.8	45.8	47.4	52.7	51.4	53.8	57.0	57.0	56.7	56.7
75°	37.3	38.3	39.4	41.8	47.4	45.8	47.4	50.3	50.8	50.3	50.3
77.5°	30.1	31.7	32.2	35.4	39.4	39.1	40.7	42.1	43.1	42.6	42.6
80°	21.3	22.9	25.0	28.5	30.9	31.7	32.5	33.5	34.1	34.1	34.6
82.5°	12.0	14.4	16.2	19.7	20.8	24.8	24.5	25.3	24.5	21.6	24.0
85°	2.7	5.1	7.2	9.1	10.4	14.4	15.2	17.0	14.1	13.0	13.0
87.5°	0.0	0.0	0.0	0.0	0.0	2.1	4.3	5.9	5.1	4.3	4.3
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°	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9
2.5°	1131.8	1155.0	1182.9	1231.1	1264.9	1301.4	1338.1	1377.3	1387.6	1398.3
5°	917.6	963.1	987.8	1052.5	1120.4	1206.6	1277.2	1354.4	1386.6	1394.0
7.5°	695.0	725.9	790.8	856.3	940.4	1030.9	1139.0	1259.3	1296.9	1312.6
10°	551.0	593.1	650.0	720.3	794.0	891.5	1013.4	1153.9	1207.2	1215.9
12.5°	469.0	515.9	577.9	652.2	721.9	795.4	918.4	1063.4	1120.4	1139.3
15°	375.1	431.8	503.4	581.6	657.5	737.9	862.5	1026.2	1091.9	1114.0
17.5°	294.7	340.5	417.9	502.8	592.8	694.5	850.7	1044.0	1124.9	1145.4
20°	225.5	258.2	323.4	413.1	518.5	651.6	853.7	1111.3	1208.2	1236.2
22.5°	194.9	211.6	251.3	336.7	454.7	614.4	865.6	1203.7	1320.6	1367.1
25°	176.5	185.3	207.6	263.5	393.7	578.2	893.1	1328.0	1477.6	1508.5
27.5°	160.8	167.2	181.0	221.2	338.3	544.6	925.0	1465.9	1624.3	1670.3
30°	145.9	154.4	167.4	196.4	302.9	514.0	965.2	1577.7	1747.8	1790.7
32.5°	134.4	142.9	154.9	179.1	272.8	481.8	989.2	1675.9	1848.7	1885.1
35°	125.1	132.3	144.8	165.3	250.0	457.3	984.4	1753.9	1946.4	1983.6
37.5°	118.5	124.6	137.1	152.3	232.6	431.8	982.0	1856.9	2065.4	2108.5
40°	112.3	118.7	130.2	143.7	215.3	401.7	983.3	1959.1	2192.1	2235.2
42.5°	107.5	114.7	124.0	141.3	197.5	377.5	983.3	2048.1	2302.3	2343.8
45°	103.5	111.3	120.3	141.1	183.4	359.1	976.6	2124.5	2390.1	2425.5
47.5°	100.1	108.6	121.6	136.3	179.9	345.8	970.8	2185.7	2461.7	2495.0
50°	97.7	107.8	129.4	130.7	181.0	341.8	999.0	2262.9	2524.8	2553.5
52.5°	95.8	108.1	129.1	122.4	179.1	344.4	1057.8	2383.5	2612.4	2614.5
55°	92.1	107.8	122.4	113.1	171.4	349.0	1133.4	2558.6	2749.5	2751.1
57.5°	88.4	104.9	113.7	105.1	155.7	349.0	1224.5	2724.4	2914.8	2916.1
60°	84.6	109.1	99.8	98.2	135.2	342.6	1320.6	2797.4	2966.7	2980.2
62.5°	80.9	109.9	89.2	92.1	120.3	327.1	1392.2	2716.7	2896.4	2915.8
65°	76.7	88.6	82.3	85.7	112.6	301.3	1369.5	2569.0	2764.4	2787.5
67.5°	71.6	75.1	74.8	79.1	109.9	263.3	1250.3	2382.1	2622.2	2620.9
70°	65.5	67.3	68.1	72.7	104.9	233.7	1041.9	2139.6	2432.4	2462.2
72.5°	59.1	60.7	61.5	65.5	99.8	216.9	808.7	1805.6	2106.9	2153.5
75°	52.2	53.2	54.3	57.8	94.5	192.2	576.0	1378.3	1613.6	1686.8
77.5°	45.0	45.0	46.3	49.8	79.6	158.6	386.5	966.8	1093.2	1168.0
80°	36.5	36.7	36.2	39.9	58.6	108.6	219.6	645.8	727.5	741.9
82.5°	27.9	27.2	27.4	29.3	43.7	74.0	117.1	401.1	408.9	400.9
85°	17.6	17.6	17.0	19.2	27.9	38.6	63.9	245.7	191.9	182.6
87.5°	7.2	5.9	6.7	7.7	13.3	15.7	25.0	50.6	19.4	17.8
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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