

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: P458555

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458555
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-735-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 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: 4623 lumens
Efficiency: N/A
Efficacy: 105.1 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

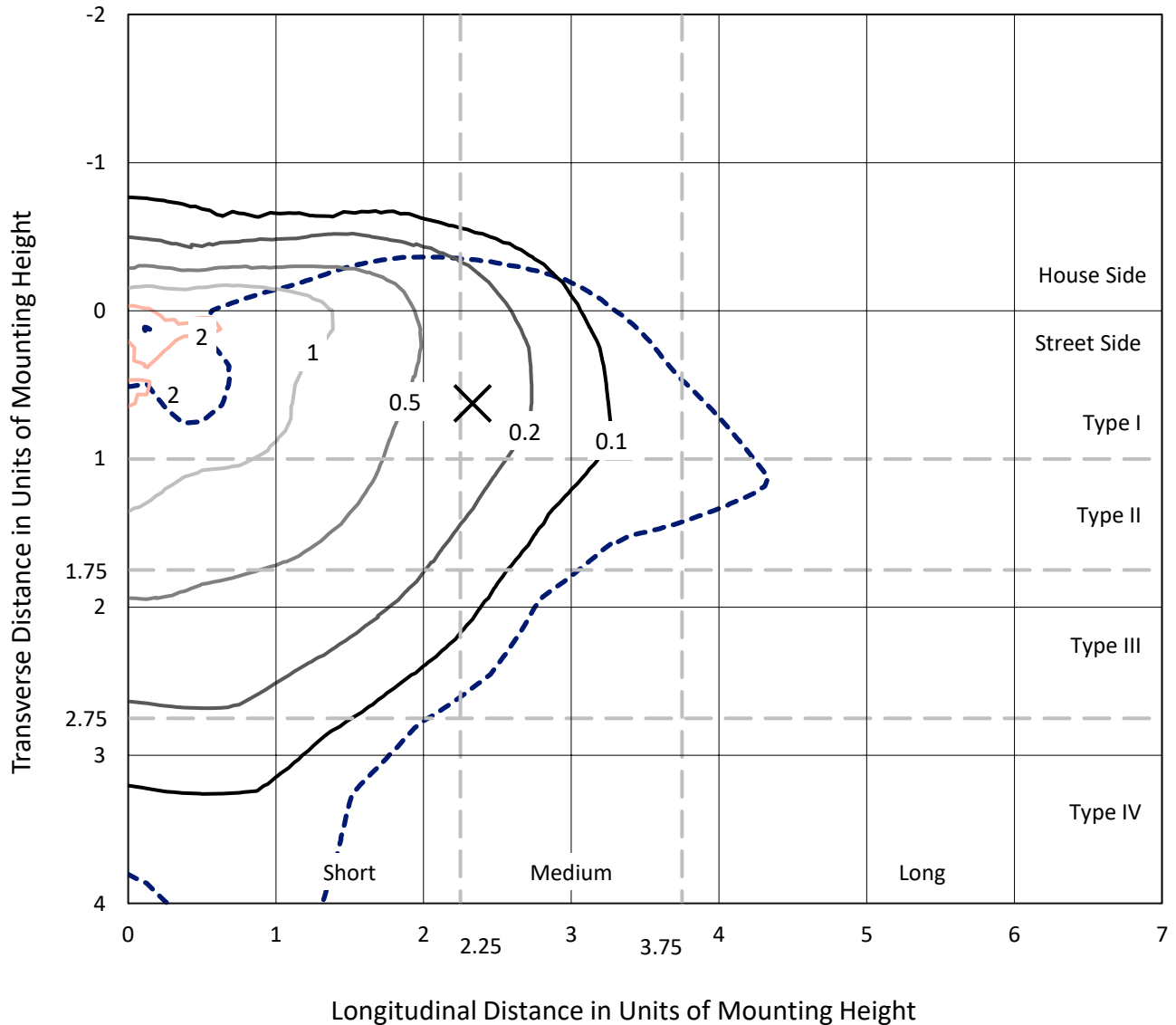
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

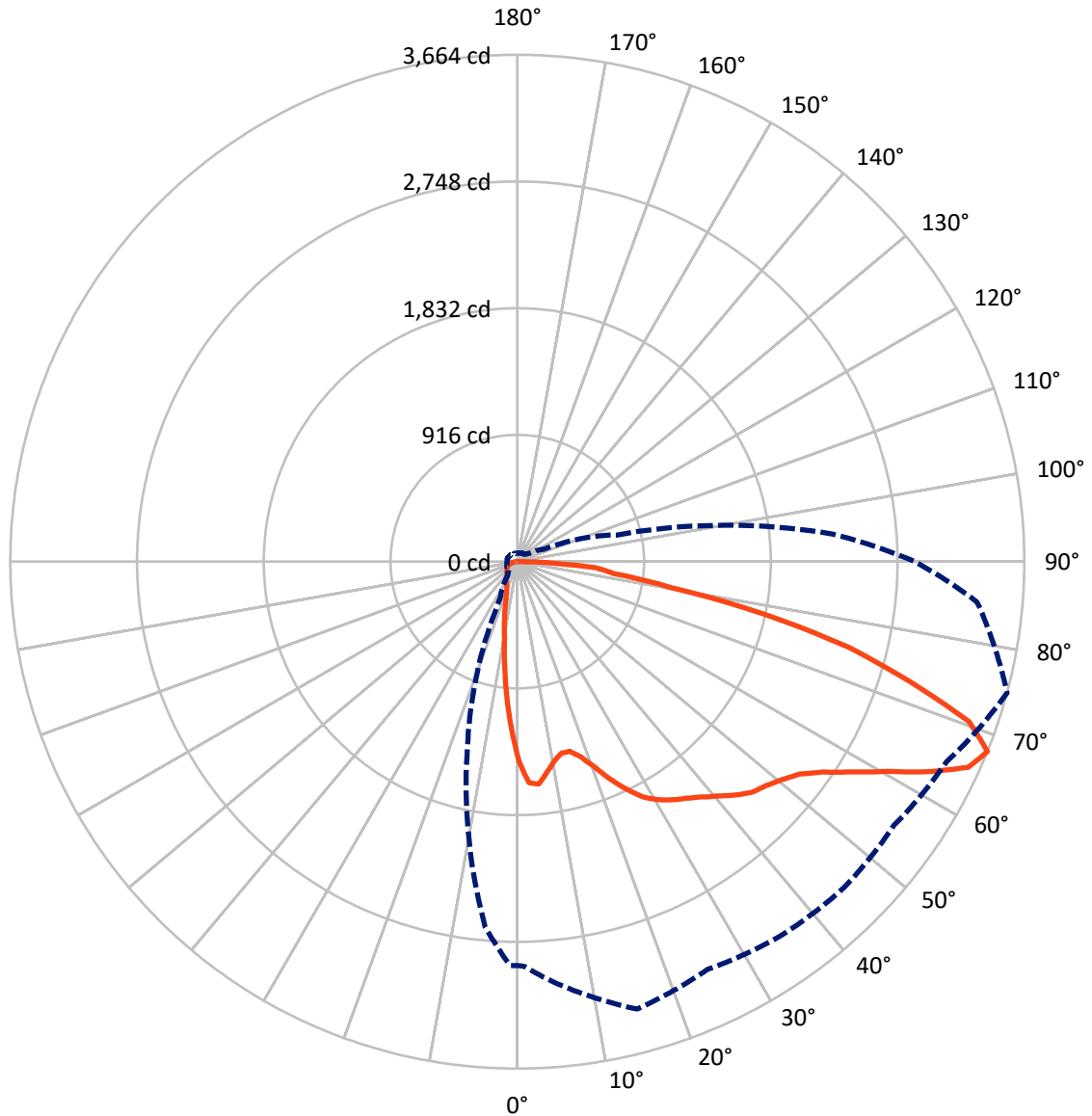
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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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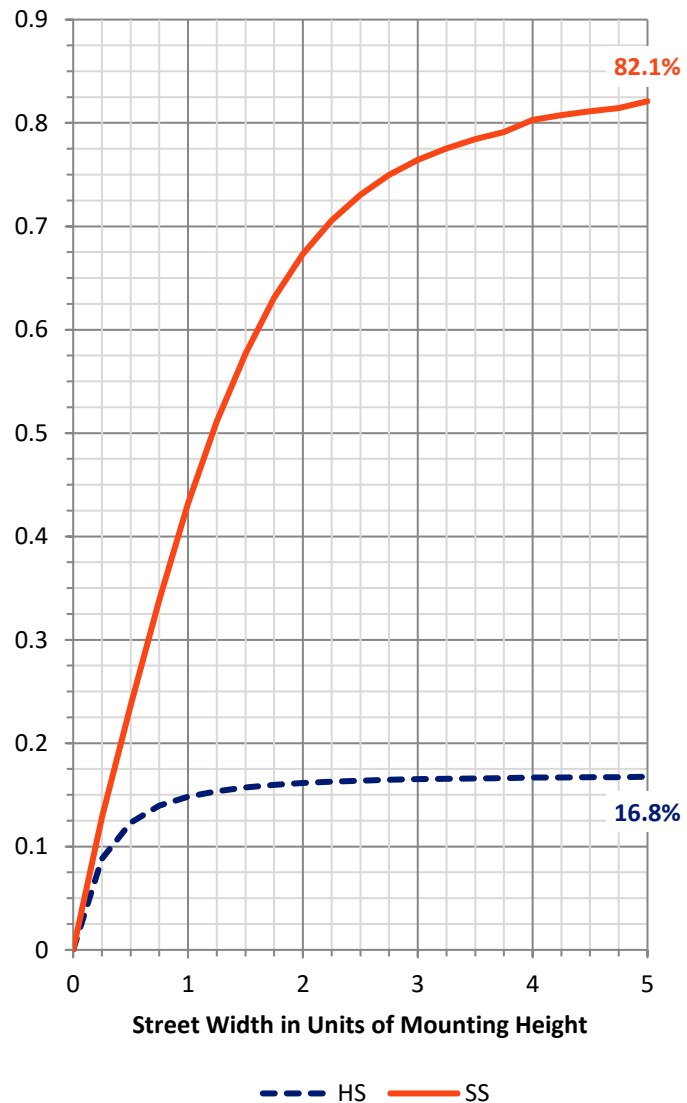
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	781.4	0.0	781.4
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	3841.6	0.0	3841.6
	% Fixture	83.1	0.0	83.1
Total	Lumens	4623.0	0.0	4623.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.5	2.4
10°-20°	228.5	4.9
20°-30°	328.8	7.1
30°-40°	473.5	10.2
40°-50°	665.2	14.4
50°-60°	927.7	20.1
60°-70°	1102.9	23.9
70°-80°	649.6	14.1
80°-90°	137.4	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°	4623.0	100.0
0°-180°	4623.0	100.0

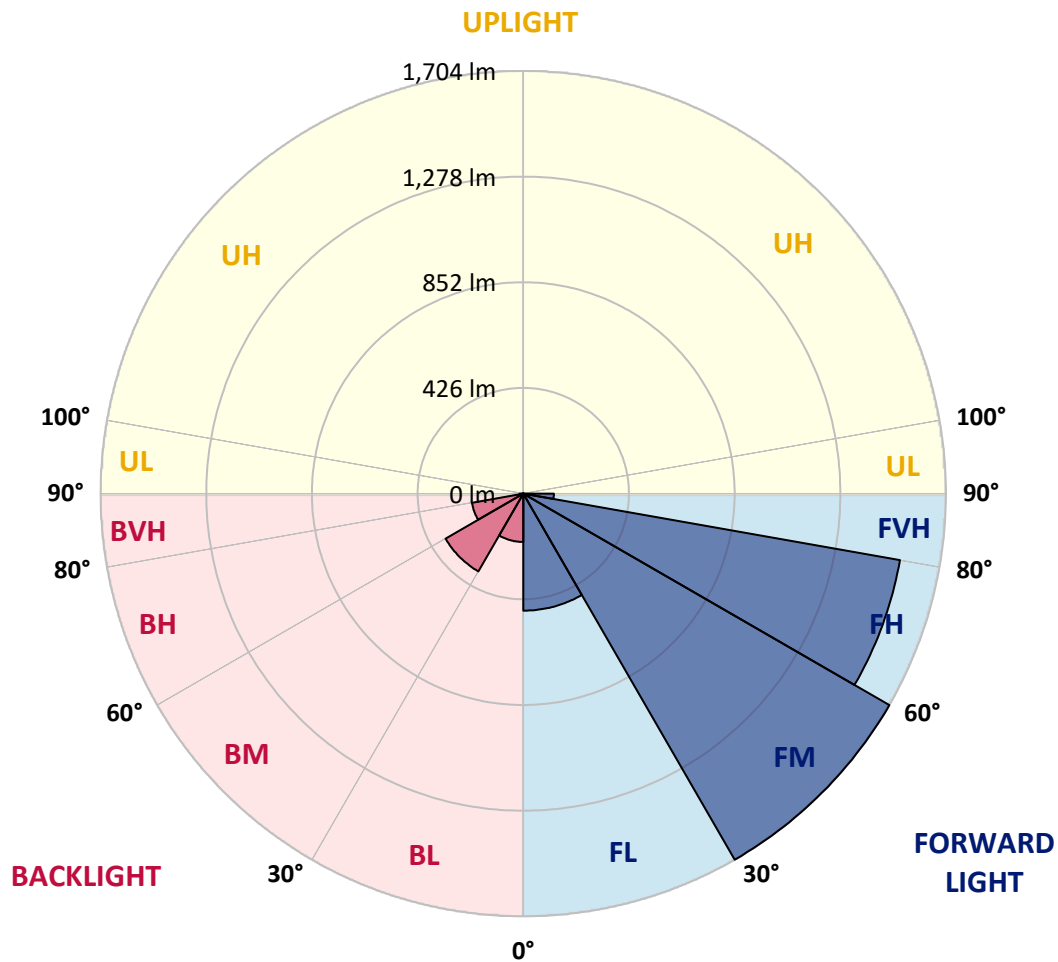


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	471.9	10.2			
FM (30°-60°)	1704.3	36.9			
FH (60°-80°)	1542.2	33.4			G1/1800
FVH (80°-90°)	123.2	2.7			G2/225
BL (0°-30°)	194.9	4.2	B1/500		
BM (30°-60°)	362.0	7.8	B1/1000		
BH (60°-80°)	210.3	4.5	B1/500		G1/500
BVH (80°-90°)	14.2	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°	1444.3	1444.3	1444.3	1444.3	1444.3	1444.3	1444.3	1444.3	1444.3	1444.3	1444.3
2.5°	1557.3	1559.4	1572.7	1611.5	1638.2	1648.0	1654.8	1642.1	1629.6	1599.4	1553.7
5°	1552.5	1564.7	1599.4	1686.5	1755.3	1785.0	1793.9	1755.6	1692.5	1614.8	1521.4
7.5°	1461.8	1478.1	1531.5	1677.6	1798.9	1868.3	1859.1	1790.0	1676.2	1537.7	1407.3
10°	1354.2	1372.3	1436.6	1613.3	1769.5	1865.0	1865.0	1780.8	1629.6	1465.1	1314.8
12.5°	1268.8	1287.8	1361.3	1547.2	1708.5	1798.9	1814.0	1741.7	1596.1	1419.1	1254.0
15°	1240.7	1259.0	1338.2	1507.2	1643.8	1699.0	1704.0	1680.3	1579.8	1422.4	1251.3
17.5°	1275.7	1299.4	1379.4	1519.0	1584.6	1587.8	1591.7	1610.4	1581.6	1482.0	1305.3
20°	1376.7	1402.2	1485.8	1557.3	1532.7	1498.9	1501.0	1549.0	1602.6	1580.4	1434.3
22.5°	1522.6	1544.8	1630.5	1624.6	1510.7	1441.1	1426.5	1493.5	1633.8	1703.1	1571.5
25°	1680.0	1706.1	1804.5	1724.5	1517.0	1406.7	1397.5	1460.9	1666.1	1817.9	1730.1
27.5°	1860.3	1885.8	1963.4	1825.3	1549.6	1404.0	1393.0	1458.0	1695.1	1924.0	1881.6
30°	1994.3	2017.7	2070.5	1910.1	1589.6	1421.8	1408.2	1481.4	1720.0	1996.6	2029.2
32.5°	2099.5	2123.8	2152.6	1962.8	1642.4	1454.1	1428.9	1524.1	1752.6	2052.1	2138.6
35°	2209.2	2237.9	2235.9	2009.7	1691.6	1491.5	1466.9	1585.7	1803.9	2100.4	2277.4
37.5°	2348.2	2359.8	2345.0	2051.8	1750.6	1558.8	1545.1	1677.3	1876.9	2158.8	2439.5
40°	2489.3	2512.5	2436.3	2102.8	1822.3	1685.4	1683.9	1812.8	1963.4	2227.3	2596.7
42.5°	2610.3	2629.9	2521.7	2147.2	1909.2	1839.8	1851.1	1994.6	2077.0	2306.7	2723.0
45°	2701.3	2718.8	2600.5	2190.2	2023.6	2018.3	2084.7	2189.3	2220.2	2378.2	2797.1
47.5°	2778.7	2795.6	2655.4	2255.4	2165.0	2231.4	2347.0	2392.4	2342.6	2419.1	2880.1
50°	2843.9	2848.9	2693.0	2333.1	2340.5	2492.6	2604.7	2634.0	2463.6	2477.8	2952.1
52.5°	2911.8	2905.3	2757.9	2430.9	2530.3	2740.4	2822.0	2852.5	2579.5	2550.1	3057.1
55°	3063.9	3070.1	2903.5	2554.3	2722.1	2983.8	3091.1	3061.8	2707.8	2683.2	3190.5
57.5°	3247.7	3242.3	3108.3	2747.3	2917.4	3210.3	3290.4	3243.2	2879.2	2866.1	3325.6
60°	3319.1	3326.2	3279.7	2954.8	3110.1	3408.7	3490.5	3417.3	3084.6	3078.7	3427.6
62.5°	3247.4	3287.4	3318.8	3139.5	3274.4	3554.5	3635.7	3552.1	3299.0	3342.0	3499.1
65°	3104.5	3113.1	3220.1	3296.0	3353.5	3578.5	3620.9	3576.4	3478.0	3581.8	3495.8
67.5°	2918.9	2926.3	3051.7	3347.3	3251.5	3305.8	3335.4	3322.4	3422.6	3663.9	3334.8
70°	2742.2	2736.3	2868.8	3216.5	2830.6	2748.1	2772.8	2731.8	2953.3	3463.2	3019.1
72.5°	2398.3	2419.7	2562.0	2853.1	2241.2	2107.2	2160.9	2055.0	2271.4	2966.0	2450.5
75°	1878.6	1883.7	2121.1	2394.5	1690.7	1479.3	1551.9	1507.8	1739.9	2474.2	1692.2
77.5°	1300.8	1289.6	1544.8	1828.8	1205.7	1083.0	1084.1	1063.1	1214.9	1821.7	1149.7
80°	826.2	809.0	967.0	1129.8	828.6	886.4	857.4	856.5	790.9	1123.9	695.2
82.5°	446.5	465.4	611.0	708.2	594.4	685.1	627.9	609.5	542.8	703.5	444.7
85°	203.4	221.2	325.8	481.7	451.5	456.5	305.1	359.9	449.1	571.3	237.5
87.5°	19.9	25.5	67.3	227.4	154.2	121.5	45.4	87.5	112.9	203.1	19.0
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°	1444.3	1444.3	1444.3	1444.3	1444.3	1444.3	1444.3	1444.3	1444.3	1444.3	1444.3
2.5°	1535.1	1519.6	1467.2	1423.9	1377.9	1342.9	1297.3	1266.8	1245.7	1214.0	1210.1
5°	1464.5	1426.8	1335.5	1242.4	1162.1	1101.6	1040.3	983.9	950.7	940.4	927.0
7.5°	1345.6	1282.2	1164.8	1058.1	965.9	875.7	806.4	757.1	724.2	705.0	681.8
10°	1247.8	1174.3	1031.4	900.6	824.7	768.7	707.6	654.9	614.3	579.6	560.6
12.5°	1182.0	1099.0	938.3	832.2	773.5	713.9	642.4	583.1	523.2	483.8	466.9
15°	1162.1	1074.4	909.5	798.1	713.9	635.9	555.9	478.5	419.2	381.8	369.4
17.5°	1210.7	1104.6	909.2	752.7	643.9	550.8	448.2	375.6	314.8	287.0	278.1
20°	1301.4	1162.7	911.9	707.9	568.0	437.0	326.1	266.5	237.5	225.6	221.2
22.5°	1428.0	1251.3	919.9	663.8	485.0	335.6	244.3	214.0	203.7	201.6	200.7
25°	1584.0	1361.0	946.9	624.0	415.0	256.1	204.3	190.6	184.7	182.6	182.3
27.5°	1727.5	1502.7	979.5	589.9	347.4	220.9	184.7	173.1	167.2	166.9	167.5
30°	1857.0	1621.3	1006.8	551.7	296.2	196.3	171.9	160.4	154.8	154.5	156.2
32.5°	1969.1	1718.9	1026.9	514.1	267.7	181.1	160.4	147.9	143.2	142.3	143.2
35°	2088.8	1816.1	1017.7	484.7	251.4	168.7	151.8	139.6	134.0	131.3	131.3
37.5°	2225.5	1916.3	1002.0	460.4	244.0	158.3	144.4	132.5	126.9	124.2	123.9
40°	2374.6	2016.5	980.4	438.8	236.6	152.1	139.3	126.9	120.1	117.4	116.8
42.5°	2506.2	2102.2	962.6	424.5	224.4	153.3	134.9	122.7	114.1	110.6	110.3
45°	2620.7	2188.4	959.3	416.2	214.3	151.5	133.7	119.5	109.4	105.5	104.9
47.5°	2710.2	2278.3	978.0	411.5	203.4	142.0	141.4	117.4	105.2	101.1	100.5
50°	2819.3	2405.7	1020.7	401.7	193.3	133.1	149.4	117.1	102.0	96.6	95.2
52.5°	2964.6	2571.8	1078.5	384.2	178.8	124.8	142.6	117.1	98.1	92.8	91.0
55°	3184.2	2783.4	1135.1	359.6	158.3	113.8	128.7	113.5	92.5	87.8	86.6
57.5°	3329.8	2938.2	1171.3	325.5	132.8	105.8	110.9	107.9	86.9	81.8	81.8
60°	3337.2	2979.7	1154.1	282.5	116.8	98.4	96.3	108.8	81.8	76.5	75.9
62.5°	3251.8	2878.0	1064.6	244.0	108.2	90.4	87.2	95.5	76.8	71.4	70.6
65°	3118.4	2618.6	909.2	225.6	103.5	83.3	78.6	78.3	71.4	66.4	65.2
67.5°	2873.3	2288.3	747.1	214.9	101.1	75.3	70.9	69.4	65.2	61.1	60.5
70°	2511.9	1916.6	599.1	210.5	99.9	67.0	63.4	61.7	58.1	54.8	54.5
72.5°	1954.2	1554.6	494.5	207.5	99.3	59.3	55.4	53.1	51.0	48.0	48.0
75°	1403.7	1143.7	377.4	187.1	91.9	51.0	46.8	45.4	42.4	40.0	40.6
77.5°	884.9	770.2	248.4	137.6	71.1	40.9	37.4	36.5	34.1	30.8	32.9
80°	597.7	541.6	145.0	86.6	44.8	29.9	28.8	28.5	25.8	22.2	22.5
82.5°	406.7	399.0	75.3	49.2	25.8	17.5	16.9	17.5	14.5	11.9	11.9
85°	158.9	217.0	35.6	19.3	8.3	2.7	3.9	4.2	2.4	1.2	1.5
87.5°	3.0	22.2	0.9	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°	1444.3	1444.3	1444.3	1444.3	1444.3	1444.3	1444.3	1444.3	1444.3	1444.3	1444.3
2.5°	1204.2	1201.5	1206.0	1187.0	1190.9	1198.0	1201.5	1203.6	1233.0	1226.1	1244.8
5°	939.5	936.8	954.0	956.4	965.3	963.5	972.1	974.2	984.8	988.7	1014.8
7.5°	683.3	694.9	714.5	724.5	739.7	744.4	740.0	750.9	728.7	744.7	749.4
10°	549.0	535.1	526.8	549.9	552.9	574.8	565.9	558.8	571.9	572.5	584.9
12.5°	457.1	427.2	407.3	413.9	421.0	430.5	431.9	446.2	455.7	464.5	472.0
15°	358.4	348.0	330.0	321.1	331.1	335.0	344.2	356.0	366.1	368.8	378.9
17.5°	275.1	276.9	273.9	268.6	274.8	277.8	278.4	278.7	281.3	279.6	294.4
20°	221.5	227.7	235.1	236.3	238.4	239.8	237.2	227.1	227.4	233.6	238.4
22.5°	200.4	201.6	209.9	212.6	219.1	216.4	208.7	204.0	203.4	204.9	207.2
25°	183.8	185.6	191.5	195.7	200.7	196.0	190.3	185.9	185.3	186.8	189.1
27.5°	169.0	171.6	177.0	181.1	185.9	181.4	176.1	172.2	171.9	171.6	173.1
30°	157.1	160.1	163.9	168.7	171.9	168.1	163.1	161.0	160.7	160.1	160.7
32.5°	145.3	150.0	153.9	156.2	159.5	156.5	152.7	151.5	149.4	147.6	146.7
35°	131.9	137.0	142.9	145.9	149.1	146.2	143.5	138.4	134.9	134.6	135.2
37.5°	124.2	126.3	131.0	136.1	139.3	137.9	132.8	127.8	126.9	126.9	127.5
40°	117.4	118.3	120.4	126.9	132.8	128.4	122.1	120.7	120.7	120.4	120.7
42.5°	110.6	111.5	111.5	116.5	126.0	118.9	114.1	114.1	114.1	114.4	115.3
45°	104.4	104.6	104.4	107.9	116.8	110.9	107.6	108.5	109.1	109.7	110.3
47.5°	99.0	99.3	99.0	102.0	106.4	104.1	102.3	103.5	104.6	105.5	106.1
50°	94.3	94.0	94.6	96.3	98.4	99.0	97.8	99.6	100.2	101.4	102.9
52.5°	90.1	89.8	90.4	91.3	94.3	94.3	94.3	95.8	96.9	98.1	100.2
55°	85.4	85.7	86.6	87.8	91.6	91.0	91.3	92.5	93.7	95.5	96.6
57.5°	80.9	81.5	82.7	84.5	88.3	88.0	88.3	88.9	90.4	91.3	92.5
60°	75.9	77.1	78.6	79.7	83.6	83.3	84.8	86.0	86.9	86.9	87.5
62.5°	70.9	72.6	74.1	75.0	79.2	79.5	81.5	82.4	83.0	82.4	83.3
65°	65.8	68.5	69.1	70.3	74.4	74.7	77.1	79.2	78.6	78.0	79.5
67.5°	60.8	64.0	63.7	65.2	69.4	70.0	72.0	75.6	74.4	73.8	75.0
70°	55.1	57.5	57.8	58.7	64.3	63.4	66.7	70.0	69.1	69.4	69.4
72.5°	48.9	51.0	51.0	52.8	58.7	57.2	59.9	63.4	63.4	63.1	63.1
75°	41.5	42.7	43.9	46.5	52.8	51.0	52.8	56.0	56.6	56.0	56.0
77.5°	33.5	35.3	35.9	39.4	43.9	43.6	45.4	46.8	48.0	47.4	47.4
80°	23.7	25.5	27.9	31.7	34.4	35.3	36.2	37.4	37.9	37.9	38.5
82.5°	13.3	16.0	18.1	21.9	23.1	27.6	27.3	28.2	27.3	24.0	26.7
85°	3.0	5.6	8.0	10.1	11.6	16.0	16.9	19.0	15.7	14.5	14.5
87.5°	0.0	0.0	0.0	0.0	0.0	2.4	4.7	6.5	5.6	4.7	4.7
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°	1444.3	1444.3	1444.3	1444.3	1444.3	1444.3	1444.3	1444.3	1444.3	1444.3
2.5°	1260.5	1286.3	1317.5	1371.1	1408.8	1449.4	1490.3	1533.9	1545.4	1557.3
5°	1021.9	1072.6	1100.1	1172.2	1247.8	1343.8	1422.4	1508.4	1544.2	1552.5
7.5°	774.0	808.4	880.8	953.7	1047.4	1148.2	1268.5	1402.5	1444.3	1461.8
10°	613.7	660.5	723.9	802.2	884.3	992.8	1128.6	1285.1	1344.4	1354.2
12.5°	522.4	574.5	643.6	726.3	804.0	885.8	1022.8	1184.3	1247.8	1268.8
15°	417.7	480.9	560.6	647.8	732.2	821.8	960.5	1142.8	1216.1	1240.7
17.5°	328.2	379.2	465.4	560.0	660.2	773.5	947.5	1162.7	1252.8	1275.7
20°	251.1	287.6	360.2	460.1	577.5	725.7	950.7	1237.7	1345.6	1376.7
22.5°	217.0	235.7	279.9	375.0	506.3	684.2	964.1	1340.6	1470.7	1522.6
25°	196.6	206.3	231.2	293.5	438.5	643.9	994.6	1479.0	1645.6	1680.0
27.5°	179.1	186.2	201.6	246.4	376.8	606.5	1030.2	1632.6	1809.0	1860.3
30°	162.5	171.9	186.5	218.8	337.4	572.5	1075.0	1757.1	1946.5	1994.3
32.5°	149.7	159.2	172.5	199.5	303.9	536.6	1101.6	1866.5	2058.9	2099.5
35°	139.3	147.3	161.3	184.1	278.4	509.3	1096.3	1953.3	2167.7	2209.2
37.5°	131.9	138.7	152.7	169.6	259.1	480.9	1093.6	2068.1	2300.2	2348.2
40°	125.1	132.2	145.0	160.1	239.8	447.4	1095.1	2181.9	2441.3	2489.3
42.5°	119.8	127.8	138.1	157.4	220.0	420.4	1095.1	2280.9	2564.0	2610.3
45°	115.3	123.9	134.0	157.1	204.3	399.9	1087.7	2366.0	2661.9	2701.3
47.5°	111.5	121.0	135.5	151.8	200.4	385.1	1081.2	2434.2	2741.6	2778.7
50°	108.8	120.1	144.1	145.6	201.6	380.6	1112.6	2520.2	2811.9	2843.9
52.5°	106.7	120.4	143.8	136.4	199.5	383.6	1178.1	2654.5	2909.4	2911.8
55°	102.6	120.1	136.4	126.0	190.9	388.7	1262.3	2849.5	3062.1	3063.9
57.5°	98.4	116.8	126.6	117.1	173.4	388.7	1363.7	3034.2	3246.2	3247.7
60°	94.3	121.5	111.2	109.4	150.6	381.5	1470.7	3115.5	3304.0	3319.1
62.5°	90.1	122.4	99.3	102.6	134.0	364.3	1550.5	3025.6	3225.7	3247.4
65°	85.4	98.7	91.6	95.5	125.4	335.6	1525.3	2861.1	3078.7	3104.5
67.5°	79.7	83.6	83.3	88.0	122.4	293.2	1392.5	2653.0	2920.4	2918.9
70°	72.9	75.0	75.9	80.9	116.8	260.3	1160.3	2382.9	2709.0	2742.2
72.5°	65.8	67.6	68.5	72.9	111.2	241.6	900.6	2010.9	2346.5	2398.3
75°	58.1	59.3	60.5	64.3	105.2	214.0	641.5	1535.1	1797.1	1878.6
77.5°	50.1	50.1	51.6	55.4	88.6	176.7	430.5	1076.7	1217.5	1300.8
80°	40.6	40.9	40.3	44.5	65.2	121.0	244.6	719.2	810.2	826.2
82.5°	31.1	30.2	30.5	32.6	48.6	82.4	130.4	446.8	455.4	446.5
85°	19.6	19.6	19.0	21.3	31.1	43.0	71.1	273.6	213.7	203.4
87.5°	8.0	6.5	7.4	8.6	14.8	17.5	27.9	56.3	21.6	19.9
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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