

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: P450261

Luminaire Tested: **GALN-SA1A-740-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450261
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-SA1A-740-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3989 lumens
Efficiency: N/A
Efficacy: 120.9 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

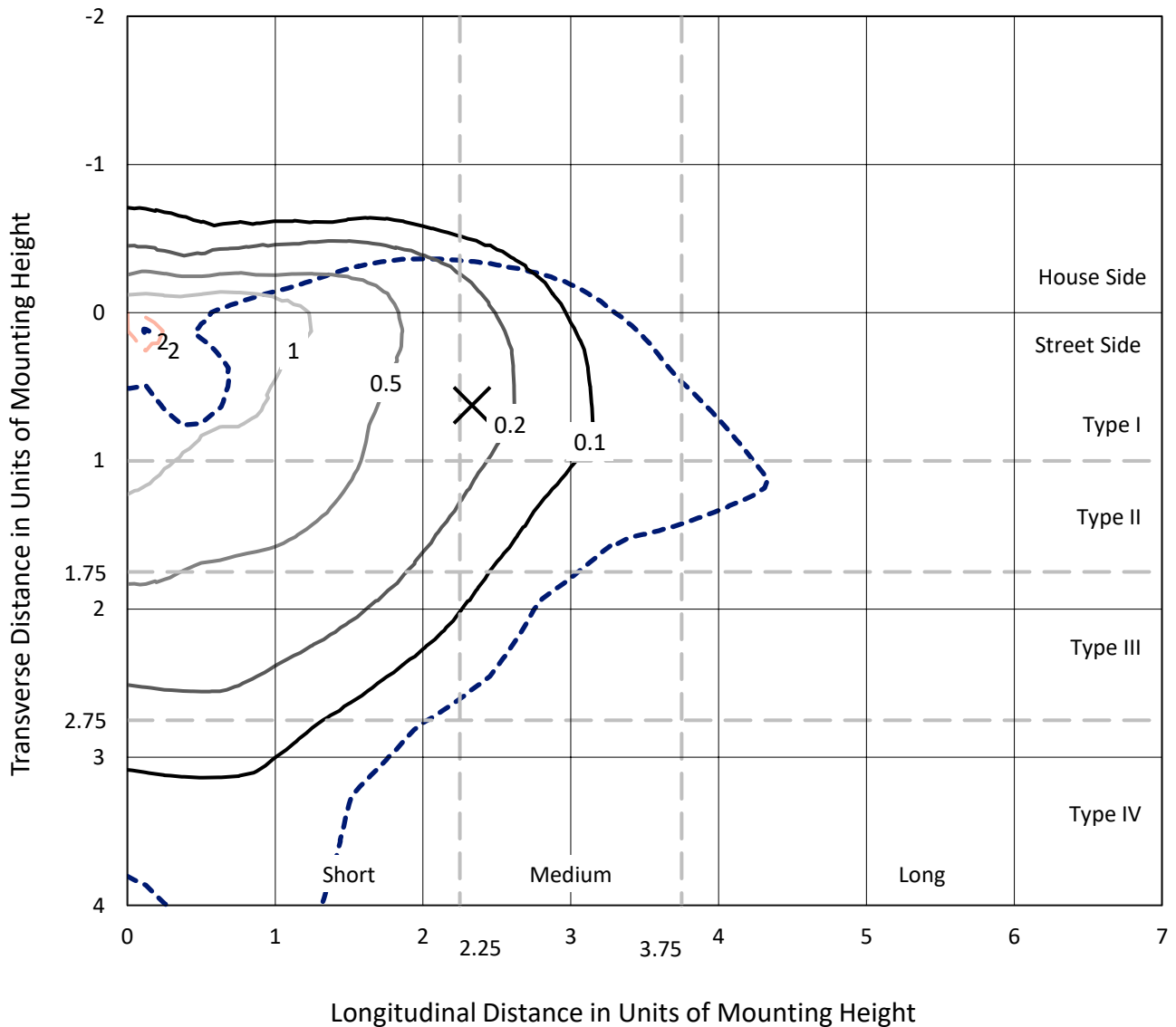
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

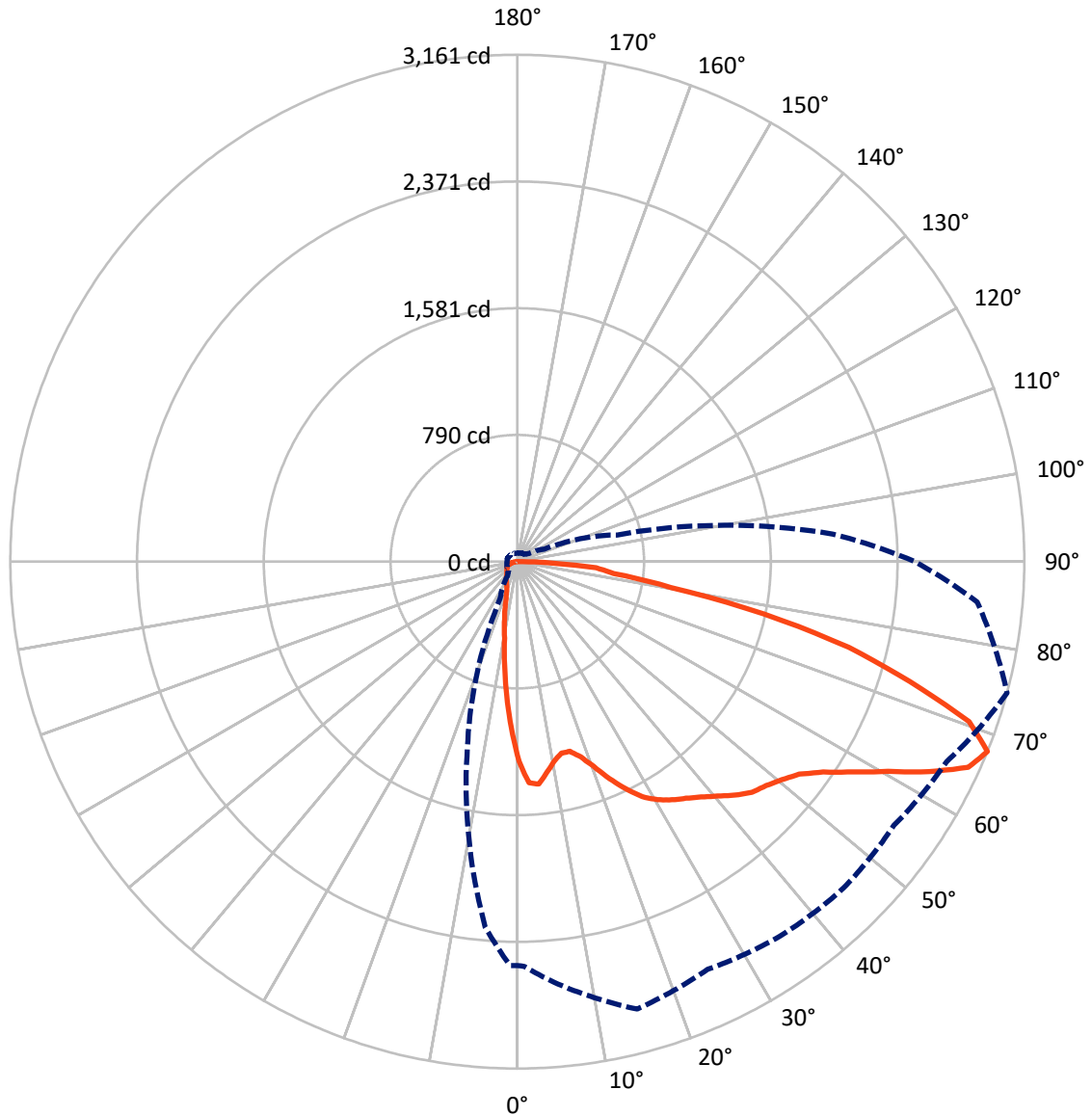
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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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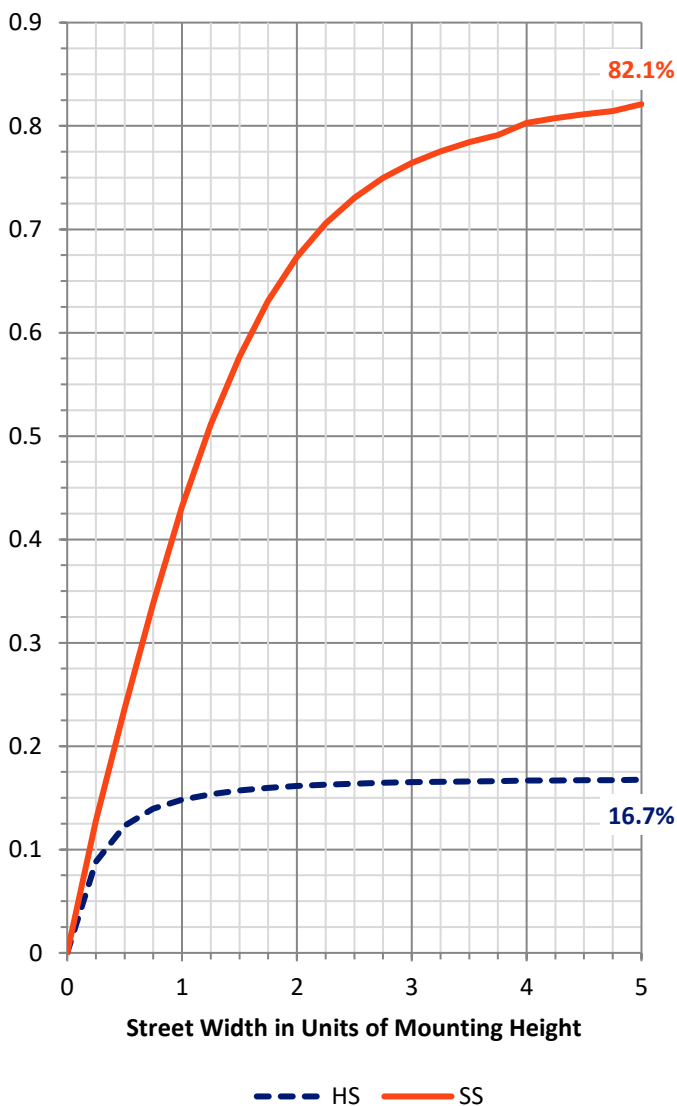
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	674.2	0.0	674.2
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	3314.8	0.0	3314.8
	% Fixture	83.1	0.0	83.1
Total	Lumens	3989.0	0.0	3989.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.5	2.4
10°-20°	197.1	4.9
20°-30°	283.7	7.1
30°-40°	408.6	10.2
40°-50°	573.9	14.4
50°-60°	800.4	20.1
60°-70°	951.7	23.9
70°-80°	560.5	14.1
80°-90°	118.5	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°	3989.0	100.0
0°-180°	3989.0	100.0



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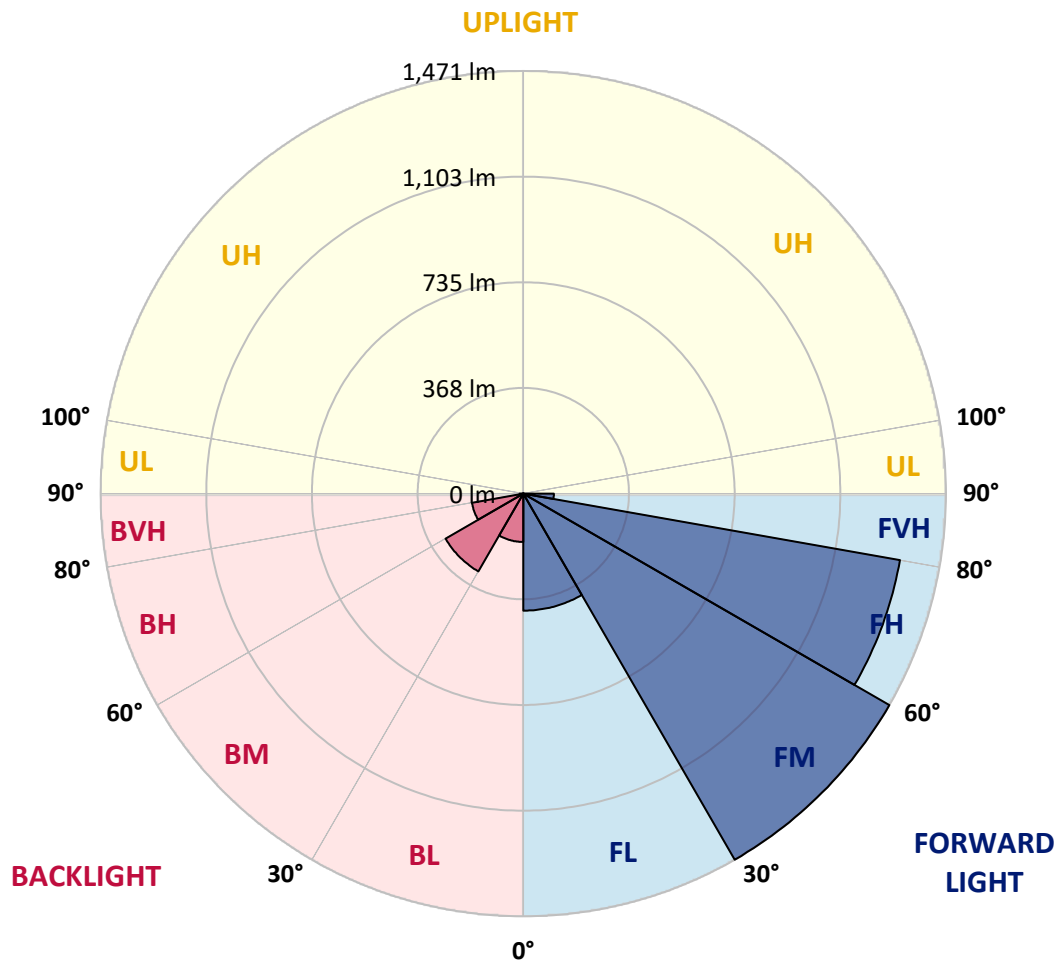
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	407.2	10.2			
FM (30°-60°)	1470.6	36.9			
FH (60°-80°)	1330.7	33.4			G1/1800
FVH (80°-90°)	106.3	2.7			G2/225
BL (0°-30°)	168.2	4.2	B1/500		
BM (30°-60°)	312.4	7.8	B1/1000		
BH (60°-80°)	181.4	4.5	B1/500		G1/500
BVH (80°-90°)	12.3	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°	1246.3	1246.3	1246.3	1246.3	1246.3	1246.3	1246.3	1246.3	1246.3	1246.3	1246.3
2.5°	1343.7	1345.5	1357.0	1390.5	1413.6	1422.0	1427.9	1416.9	1406.1	1380.0	1340.6
5°	1339.6	1350.1	1380.0	1455.2	1514.6	1540.2	1547.8	1514.8	1460.4	1393.3	1312.8
7.5°	1261.4	1275.4	1321.5	1447.6	1552.2	1612.1	1604.1	1544.5	1446.3	1326.8	1214.3
10°	1168.5	1184.1	1239.6	1392.1	1526.9	1609.2	1609.2	1536.6	1406.1	1264.2	1134.5
12.5°	1094.8	1111.2	1174.6	1335.0	1474.2	1552.2	1565.2	1502.8	1377.2	1224.5	1082.0
15°	1070.5	1086.4	1154.7	1300.5	1418.4	1466.0	1470.3	1449.9	1363.2	1227.3	1079.7
17.5°	1100.7	1121.2	1190.2	1310.7	1367.3	1370.1	1373.4	1389.5	1364.7	1278.7	1126.3
20°	1187.9	1209.9	1282.1	1343.7	1322.5	1293.3	1295.1	1336.6	1382.9	1363.7	1237.6
22.5°	1313.8	1333.0	1406.9	1401.8	1303.6	1243.4	1230.9	1288.7	1409.7	1469.6	1356.0
25°	1449.6	1472.1	1557.1	1488.0	1308.9	1213.8	1205.8	1260.6	1437.6	1568.6	1492.8
27.5°	1605.1	1627.1	1694.2	1575.0	1337.1	1211.5	1202.0	1258.0	1462.7	1660.1	1623.6
30°	1720.8	1741.0	1786.5	1648.1	1371.6	1226.8	1215.1	1278.2	1484.2	1722.8	1751.0
32.5°	1811.6	1832.6	1857.4	1693.7	1417.1	1254.7	1233.0	1315.1	1512.3	1770.6	1845.3
35°	1906.2	1931.0	1929.2	1734.1	1459.6	1286.9	1265.7	1368.3	1556.5	1812.3	1965.1
37.5°	2026.2	2036.2	2023.4	1770.4	1510.5	1345.0	1333.2	1447.3	1619.5	1862.7	2105.0
40°	2148.0	2167.9	2102.2	1814.4	1572.4	1454.2	1452.9	1564.2	1694.2	1921.8	2240.6
42.5°	2252.3	2269.2	2175.8	1852.8	1647.4	1587.5	1597.2	1721.0	1792.1	1990.4	2349.5
45°	2330.9	2345.9	2243.9	1889.9	1746.1	1741.5	1798.8	1889.1	1915.7	2052.0	2413.5
47.5°	2397.6	2412.2	2291.2	1946.1	1868.1	1925.4	2025.2	2064.3	2021.3	2087.3	2485.1
50°	2453.9	2458.2	2323.7	2013.1	2019.5	2150.8	2247.5	2272.8	2125.7	2138.0	2547.3
52.5°	2512.5	2506.8	2379.7	2097.6	2183.3	2364.6	2435.0	2461.3	2225.7	2200.4	2637.8
55°	2643.7	2649.1	2505.3	2204.0	2348.8	2574.6	2667.2	2641.9	2336.5	2315.2	2752.9
57.5°	2802.3	2797.7	2682.1	2370.5	2517.3	2770.1	2839.1	2798.5	2484.3	2473.1	2869.6
60°	2863.9	2870.1	2829.9	2549.6	2683.6	2941.2	3011.8	2948.6	2661.6	2656.5	2957.6
62.5°	2802.0	2836.6	2863.7	2708.9	2825.3	3067.0	3137.1	3065.0	2846.5	2883.6	3019.2
65°	2678.7	2686.2	2778.5	2844.0	2893.6	3087.8	3124.3	3086.0	3001.0	3090.6	3016.4
67.5°	2518.6	2525.0	2633.2	2888.2	2805.6	2852.4	2878.0	2866.8	2953.2	3161.4	2877.5
70°	2366.2	2361.0	2475.4	2775.4	2442.4	2371.3	2392.5	2357.2	2548.3	2988.3	2605.1
72.5°	2069.4	2087.8	2210.6	2461.8	1933.8	1818.2	1864.5	1773.2	1959.9	2559.3	2114.4
75°	1621.0	1625.4	1830.2	2066.1	1458.8	1276.4	1339.1	1301.0	1501.3	2134.9	1460.1
77.5°	1122.5	1112.7	1333.0	1578.0	1040.3	934.4	935.5	917.3	1048.3	1571.9	992.0
80°	712.9	698.1	834.4	974.9	715.0	764.8	739.8	739.0	682.5	969.7	599.9
82.5°	385.2	401.6	527.2	611.1	512.9	591.2	541.8	525.9	468.4	607.0	383.7
85°	175.5	190.8	281.1	415.7	389.6	393.9	263.2	310.5	387.5	492.9	204.9
87.5°	17.1	22.0	58.1	196.2	133.0	104.9	39.1	75.5	97.5	175.2	16.4
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°	1246.3	1246.3	1246.3	1246.3	1246.3	1246.3	1246.3	1246.3	1246.3	1246.3	1246.3
2.5°	1324.5	1311.2	1266.0	1228.6	1189.0	1158.8	1119.4	1093.0	1074.9	1047.5	1044.2
5°	1263.7	1231.2	1152.4	1072.1	1002.7	950.6	897.6	849.0	820.4	811.4	799.9
7.5°	1161.1	1106.3	1005.0	913.0	833.4	755.6	695.8	653.3	624.9	608.3	588.3
10°	1076.7	1013.2	889.9	777.1	711.6	663.3	610.6	565.1	530.0	500.1	483.7
12.5°	1019.9	948.3	809.6	718.0	667.4	616.0	554.3	503.2	451.5	417.5	402.9
15°	1002.7	927.0	784.8	688.6	616.0	548.7	479.6	412.9	361.7	329.5	318.7
17.5°	1044.7	953.1	784.5	649.5	555.6	475.3	386.8	324.1	271.7	247.6	239.9
20°	1123.0	1003.2	786.8	610.9	490.1	377.0	281.4	230.0	204.9	194.7	190.8
22.5°	1232.2	1079.7	793.7	572.7	418.5	289.6	210.8	184.7	175.7	173.9	173.2
25°	1366.7	1174.4	817.0	538.5	358.1	221.0	176.2	164.5	159.4	157.6	157.3
27.5°	1490.5	1296.7	845.2	509.0	299.8	190.6	159.4	149.4	144.3	144.0	144.5
30°	1602.3	1399.0	868.7	476.0	255.5	169.3	148.4	138.4	133.5	133.3	134.8
32.5°	1699.0	1483.1	886.1	443.6	231.0	156.3	138.4	127.6	123.6	122.8	123.6
35°	1802.4	1567.0	878.2	418.2	216.9	145.6	131.0	120.5	115.6	113.3	113.3
37.5°	1920.3	1653.5	864.6	397.3	210.5	136.6	124.6	114.3	109.5	107.2	106.9
40°	2049.0	1740.0	845.9	378.6	204.1	131.2	120.2	109.5	103.6	101.3	100.8
42.5°	2162.5	1813.9	830.6	366.3	193.6	132.2	116.4	105.9	98.5	95.4	95.2
45°	2261.3	1888.3	827.8	359.1	184.9	130.7	115.4	103.1	94.4	91.1	90.6
47.5°	2338.5	1965.8	843.9	355.1	175.5	122.5	122.0	101.3	90.8	87.2	86.7
50°	2432.7	2075.8	880.7	346.6	166.8	114.9	128.9	101.0	88.0	83.4	82.1
52.5°	2558.0	2219.1	930.6	331.5	154.2	107.7	123.0	101.0	84.7	80.1	78.5
55°	2747.5	2401.7	979.5	310.3	136.6	98.2	111.0	98.0	79.8	75.7	74.7
57.5°	2873.1	2535.2	1010.7	280.9	114.6	91.3	95.7	93.1	74.9	70.6	70.6
60°	2879.5	2571.0	995.8	243.8	100.8	84.9	83.1	93.9	70.6	66.0	65.5
62.5°	2805.9	2483.3	918.6	210.5	93.4	78.0	75.2	82.4	66.3	61.6	60.9
65°	2690.8	2259.5	784.5	194.7	89.3	71.9	67.8	67.5	61.6	57.3	56.3
67.5°	2479.2	1974.5	644.6	185.5	87.2	65.0	61.1	59.9	56.3	52.7	52.2
70°	2167.4	1653.7	517.0	181.6	86.2	57.8	54.7	53.2	50.1	47.3	47.1
72.5°	1686.2	1341.4	426.7	179.1	85.7	51.2	47.8	45.8	44.0	41.4	41.4
75°	1211.2	986.9	325.6	161.4	79.3	44.0	40.4	39.1	36.6	34.5	35.0
77.5°	763.6	664.6	214.4	118.7	61.4	35.3	32.2	31.5	29.4	26.6	28.4
80°	515.7	467.3	125.1	74.7	38.6	25.8	24.8	24.6	22.3	19.2	19.4
82.5°	351.0	344.3	65.0	42.5	22.3	15.1	14.6	15.1	12.5	10.2	10.2
85°	137.1	187.2	30.7	16.6	7.2	2.3	3.3	3.6	2.0	1.0	1.3
87.5°	2.6	19.2	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°	1246.3	1246.3	1246.3	1246.3	1246.3	1246.3	1246.3	1246.3	1246.3	1246.3	1246.3
2.5°	1039.1	1036.8	1040.6	1024.2	1027.5	1033.7	1036.8	1038.5	1063.9	1058.0	1074.1
5°	810.6	808.3	823.2	825.2	832.9	831.4	838.8	840.6	849.8	853.1	875.6
7.5°	589.6	599.6	616.5	625.2	638.2	642.3	638.5	647.9	628.8	642.6	646.7
10°	473.7	461.7	454.6	474.5	477.1	496.0	488.3	482.2	493.4	493.9	504.7
12.5°	394.4	368.6	351.5	357.1	363.2	371.4	372.7	385.0	393.2	400.8	407.2
15°	309.3	300.3	284.7	277.0	285.7	289.1	297.0	307.2	315.9	318.2	326.9
17.5°	237.4	238.9	236.4	231.8	237.1	239.7	240.2	240.5	242.8	241.2	254.0
20°	191.1	196.5	202.8	203.9	205.7	206.9	204.6	195.9	196.2	201.6	205.7
22.5°	172.9	173.9	181.1	183.4	189.0	186.7	180.1	176.0	175.5	176.8	178.8
25°	158.6	160.1	165.2	168.8	173.2	169.1	164.2	160.4	159.9	161.2	163.2
27.5°	145.8	148.1	152.7	156.3	160.4	156.5	151.9	148.6	148.4	148.1	149.4
30°	135.6	138.1	141.5	145.6	148.4	145.0	140.7	138.9	138.6	138.1	138.6
32.5°	125.3	129.4	132.8	134.8	137.6	135.1	131.7	130.7	128.9	127.4	126.6
35°	113.8	118.2	123.3	125.9	128.7	126.1	123.8	119.5	116.4	116.1	116.6
37.5°	107.2	109.0	113.1	117.4	120.2	118.9	114.6	110.2	109.5	109.5	110.0
40°	101.3	102.1	103.9	109.5	114.6	110.8	105.4	104.1	104.1	103.9	104.1
42.5°	95.4	96.2	96.2	100.5	108.7	102.6	98.5	98.5	98.5	98.7	99.5
45°	90.0	90.3	90.0	93.1	100.8	95.7	92.9	93.6	94.1	94.6	95.2
47.5°	85.4	85.7	85.4	88.0	91.8	89.8	88.3	89.3	90.3	91.1	91.6
50°	81.3	81.1	81.6	83.1	84.9	85.4	84.4	85.9	86.5	87.5	88.8
52.5°	77.8	77.5	78.0	78.8	81.3	81.3	81.3	82.6	83.6	84.7	86.5
55°	73.7	73.9	74.7	75.7	79.0	78.5	78.8	79.8	80.8	82.4	83.4
57.5°	69.8	70.3	71.4	72.9	76.2	76.0	76.2	76.7	78.0	78.8	79.8
60°	65.5	66.5	67.8	68.8	72.1	71.9	73.2	74.2	74.9	74.9	75.5
62.5°	61.1	62.7	64.0	64.7	68.3	68.6	70.3	71.1	71.6	71.1	71.9
65°	56.8	59.1	59.6	60.6	64.2	64.5	66.5	68.3	67.8	67.3	68.6
67.5°	52.4	55.3	55.0	56.3	59.9	60.4	62.2	65.2	64.2	63.7	64.7
70°	47.6	49.6	49.9	50.6	55.5	54.7	57.6	60.4	59.6	59.9	59.9
72.5°	42.2	44.0	44.0	45.5	50.6	49.4	51.7	54.7	54.7	54.5	54.5
75°	35.8	36.8	37.9	40.2	45.5	44.0	45.5	48.3	48.9	48.3	48.3
77.5°	28.9	30.4	31.0	34.0	37.9	37.6	39.1	40.4	41.4	40.9	40.9
80°	20.5	22.0	24.0	27.4	29.7	30.4	31.2	32.2	32.7	32.7	33.3
82.5°	11.5	13.8	15.6	18.9	20.0	23.8	23.5	24.3	23.5	20.7	23.0
85°	2.6	4.9	6.9	8.7	10.0	13.8	14.6	16.4	13.6	12.5	12.5
87.5°	0.0	0.0	0.0	0.0	0.0	2.0	4.1	5.6	4.9	4.1	4.1
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°	1246.3	1246.3	1246.3	1246.3	1246.3	1246.3	1246.3	1246.3	1246.3	1246.3
2.5°	1087.7	1109.9	1136.8	1183.1	1215.6	1250.6	1285.9	1323.5	1333.5	1343.7
5°	881.7	925.5	949.3	1011.4	1076.7	1159.5	1227.3	1301.5	1332.5	1339.6
7.5°	667.9	697.6	760.0	822.9	903.7	990.7	1094.6	1210.2	1246.3	1261.4
10°	529.5	569.9	624.7	692.2	763.1	856.7	973.8	1108.9	1160.1	1168.5
12.5°	450.7	495.7	555.3	626.7	693.7	764.3	882.5	1021.9	1076.7	1094.8
15°	360.4	414.9	483.7	558.9	631.8	709.1	828.8	986.1	1049.3	1070.5
17.5°	283.2	327.2	401.6	483.2	569.7	667.4	817.5	1003.2	1081.0	1100.7
20°	216.7	248.1	310.8	397.0	498.3	626.2	820.4	1068.0	1161.1	1187.9
22.5°	187.2	203.4	241.5	323.6	436.9	590.4	831.9	1156.7	1269.0	1313.8
25°	169.6	178.0	199.5	253.2	378.3	555.6	858.2	1276.2	1419.9	1449.6
27.5°	154.5	160.6	173.9	212.6	325.1	523.4	888.9	1408.7	1560.9	1605.1
30°	140.2	148.4	160.9	188.8	291.1	493.9	927.5	1516.1	1679.6	1720.8
32.5°	129.2	137.4	148.9	172.2	262.2	463.0	950.6	1610.5	1776.5	1811.6
35°	120.2	127.1	139.2	158.9	240.2	439.5	945.9	1685.5	1870.4	1906.2
37.5°	113.8	119.7	131.7	146.3	223.6	414.9	943.6	1784.5	1984.8	2026.2
40°	107.9	114.1	125.1	138.1	206.9	386.0	944.9	1882.7	2106.5	2148.0
42.5°	103.3	110.2	119.2	135.8	189.8	362.7	944.9	1968.1	2212.4	2252.3
45°	99.5	106.9	115.6	135.6	176.2	345.1	938.5	2041.5	2296.8	2330.9
47.5°	96.2	104.4	116.9	131.0	172.9	332.3	932.9	2100.4	2365.6	2397.6
50°	93.9	103.6	124.3	125.6	173.9	328.4	960.0	2174.6	2426.3	2453.9
52.5°	92.1	103.9	124.1	117.7	172.2	331.0	1016.5	2290.4	2510.4	2512.5
55°	88.5	103.6	117.7	108.7	164.7	335.4	1089.2	2458.8	2642.2	2643.7
57.5°	84.9	100.8	109.2	101.0	149.6	335.4	1176.7	2618.1	2801.0	2802.3
60°	81.3	104.9	95.9	94.4	129.9	329.2	1269.0	2688.2	2850.9	2863.9
62.5°	77.8	105.6	85.7	88.5	115.6	314.4	1337.8	2610.7	2783.4	2802.0
65°	73.7	85.2	79.0	82.4	108.2	289.6	1316.1	2468.7	2656.5	2678.7
67.5°	68.8	72.1	71.9	76.0	105.6	253.0	1201.5	2289.2	2519.9	2518.6
70°	62.9	64.7	65.5	69.8	100.8	224.6	1001.2	2056.1	2337.5	2366.2
72.5°	56.8	58.3	59.1	62.9	95.9	208.5	777.1	1735.1	2024.7	2069.4
75°	50.1	51.2	52.2	55.5	90.8	184.7	553.6	1324.5	1550.7	1621.0
77.5°	43.2	43.2	44.5	47.8	76.5	152.5	371.4	929.1	1050.6	1122.5
80°	35.0	35.3	34.8	38.4	56.3	104.4	211.0	620.6	699.1	712.9
82.5°	26.9	26.1	26.3	28.1	42.0	71.1	112.6	385.5	392.9	385.2
85°	16.9	16.9	16.4	18.4	26.9	37.1	61.4	236.1	184.4	175.5
87.5°	6.9	5.6	6.4	7.4	12.8	15.1	24.0	48.6	18.7	17.1
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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