

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: P450608

Luminaire Tested: **GALN-SA1B-830-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450608
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-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 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: 3286 lumens
Efficiency: N/A
Efficacy: 74.7 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 (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



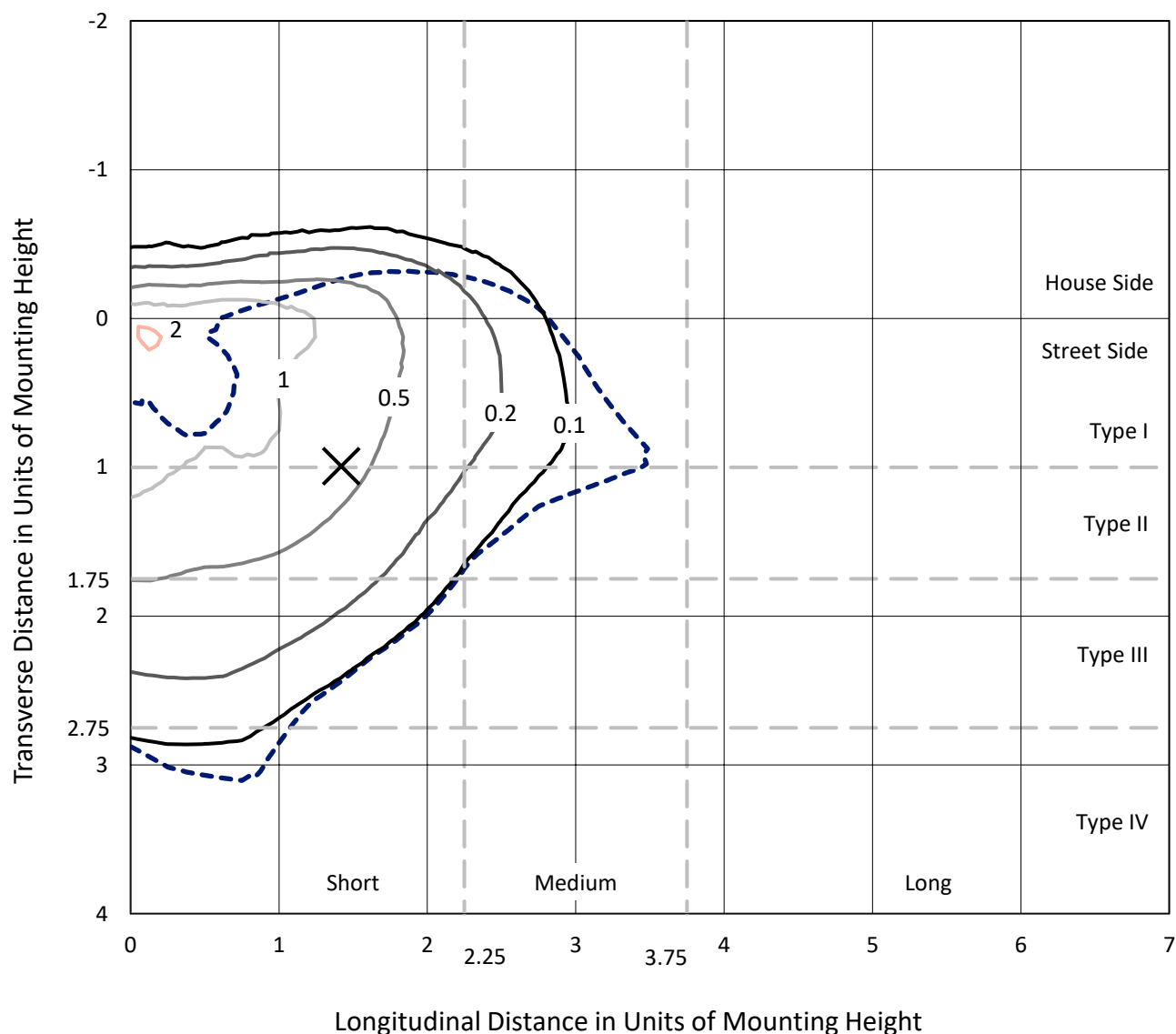
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

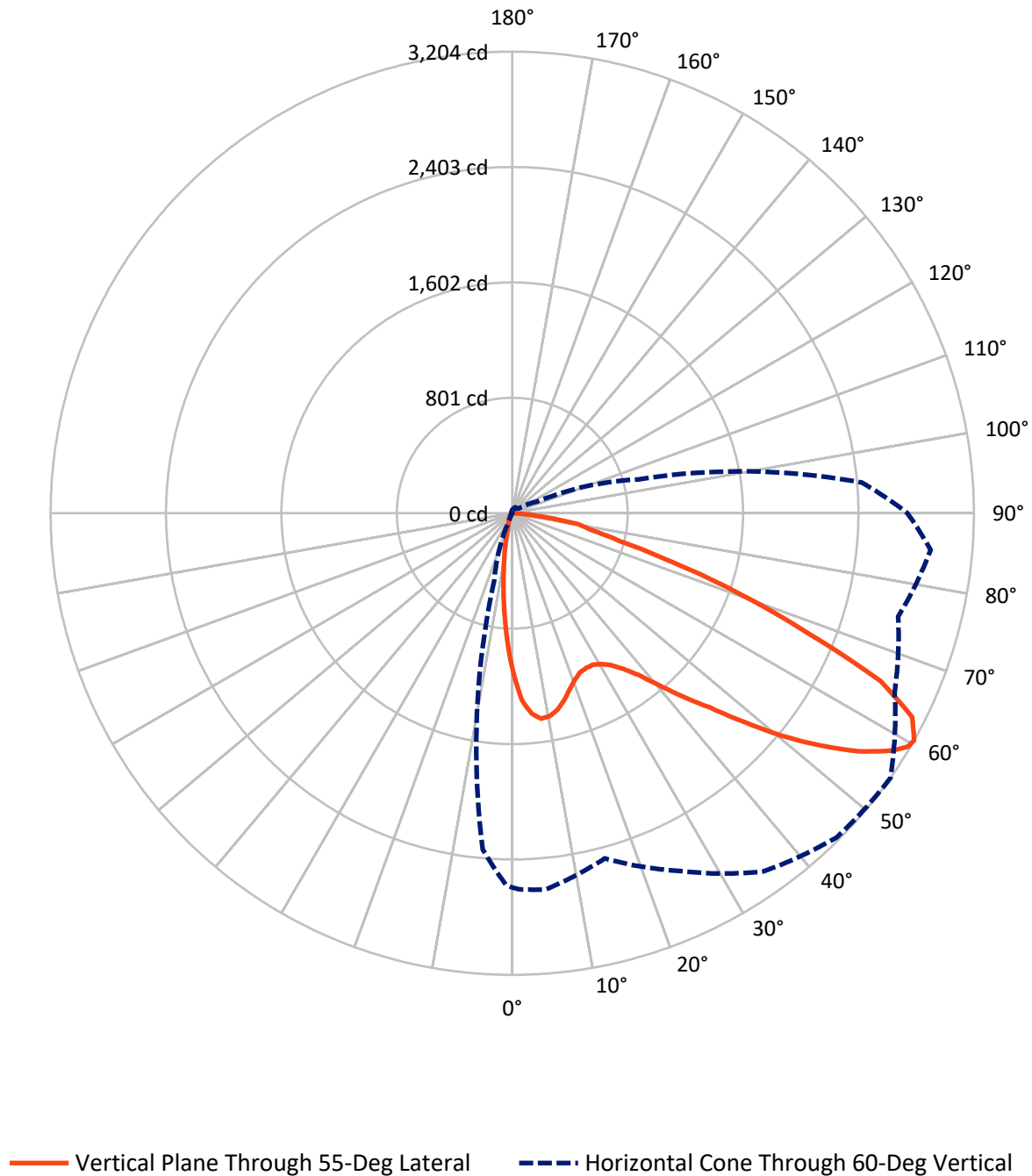
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	487.7	0.0	487.7
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	2798.3	0.0	2798.3
	% Fixture	85.2	0.0	85.2
Total	Lumens	3286.0	0.0	3286.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.4	2.5
10°-20°	162.2	4.9
20°-30°	240.2	7.3
30°-40°	358.0	10.9
40°-50°	524.3	16.0
50°-60°	756.9	23.0
60°-70°	796.2	24.2
70°-80°	327.5	10.0
80°-90°	38.4	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°	3286.0	100.0
0°-180°	3286.0	100.0

Coefficient of Utilization



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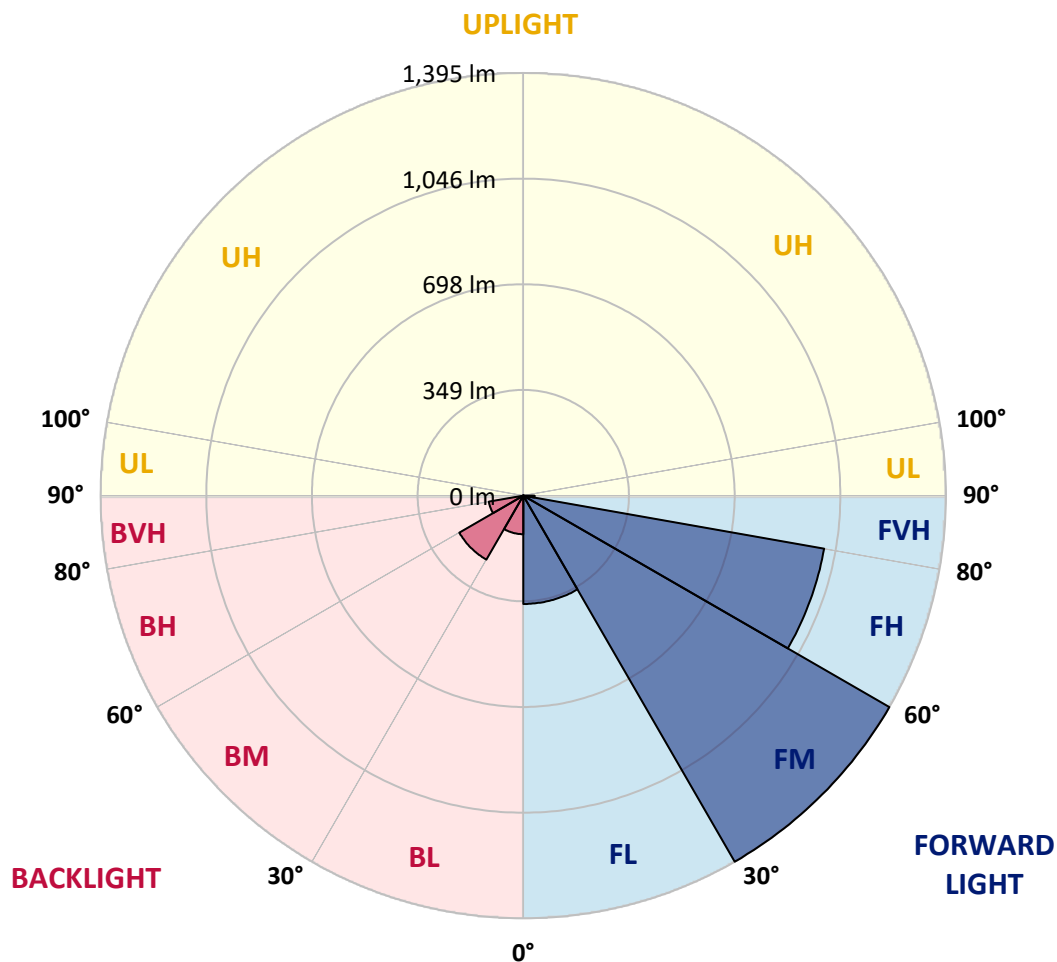
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	357.6	10.9			
FM	(30°-60°)	1395.2	42.5			
FH	(60°-80°)	1008.3	30.7			G1/1800
FVH	(80°-90°)	37.2	1.1			G1/100
BL	(0°-30°)	127.2	3.9	B1/500		
BM	(30°-60°)	243.9	7.4	B1/1000		
BH	(60°-80°)	115.4	3.5	B1/500		G1/500
BVH	(80°-90°)	1.1	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°	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6
2.5°	1215.6	1213.5	1231.5	1260.8	1290.4	1305.9	1302.8	1301.6	1277.0	1259.1	1221.4
5°	1213.0	1223.4	1255.5	1335.0	1395.2	1424.2	1432.8	1396.7	1348.9	1279.6	1194.1
7.5°	1140.5	1153.4	1205.7	1329.9	1436.9	1500.1	1497.8	1439.9	1341.3	1234.0	1112.1
10°	1050.4	1065.6	1127.0	1277.8	1416.7	1500.1	1504.7	1431.3	1308.6	1171.1	1042.8
12.5°	986.9	1004.9	1072.9	1229.2	1364.5	1446.7	1452.1	1398.9	1284.1	1146.8	1005.1
15°	965.4	982.4	1051.4	1204.7	1309.2	1353.4	1352.2	1346.6	1274.5	1152.6	1007.2
17.5°	1002.4	1016.3	1094.2	1215.8	1257.3	1252.8	1259.3	1286.1	1276.5	1201.4	1070.9
20°	1097.7	1111.9	1195.6	1250.0	1217.6	1188.8	1191.8	1236.6	1295.2	1293.2	1170.6
22.5°	1229.0	1253.0	1328.9	1316.2	1212.3	1149.1	1142.7	1200.9	1327.1	1398.9	1305.1
25°	1395.2	1419.4	1478.6	1422.0	1238.3	1139.7	1133.9	1190.0	1365.8	1502.1	1456.6
27.5°	1534.8	1553.2	1612.2	1524.9	1276.8	1143.7	1134.1	1191.5	1397.2	1589.9	1584.3
30°	1646.6	1660.2	1694.9	1573.0	1309.9	1161.4	1150.3	1213.8	1411.1	1632.7	1687.8
32.5°	1736.6	1759.6	1770.5	1624.3	1357.5	1194.8	1175.9	1256.5	1445.0	1685.5	1796.3
35°	1839.5	1866.1	1852.2	1673.4	1420.2	1246.9	1223.7	1325.8	1496.3	1734.3	1922.3
37.5°	1970.1	2000.7	1946.3	1725.0	1486.5	1325.3	1314.5	1423.2	1574.2	1804.1	2057.3
40°	2105.1	2122.8	2037.6	1787.7	1567.9	1439.4	1449.8	1567.9	1676.2	1887.9	2201.0
42.5°	2210.6	2227.3	2131.4	1840.3	1651.1	1574.7	1618.0	1742.4	1793.0	1973.6	2308.2
45°	2291.3	2305.4	2196.4	1897.7	1763.4	1770.7	1852.4	1922.3	1910.1	2026.0	2390.9
47.5°	2354.0	2366.1	2246.5	1959.4	1931.6	2010.5	2135.5	2165.1	2031.5	2082.6	2465.8
50°	2379.8	2383.3	2262.2	2038.1	2122.6	2316.1	2446.3	2428.4	2170.6	2145.6	2545.5
52.5°	2413.4	2412.7	2307.0	2113.0	2302.2	2589.2	2719.2	2678.5	2327.9	2239.9	2635.0
55°	2501.7	2502.7	2402.8	2219.2	2455.2	2809.8	2948.9	2919.3	2493.9	2399.3	2739.5
57.5°	2609.0	2612.7	2539.1	2343.4	2601.4	2969.6	3120.4	3109.0	2718.2	2576.6	2838.1
59°	2622.9	2630.5	2603.6	2430.9	2688.1	3018.7	3179.1	3190.2	2838.4	2693.4	2891.5
60°	2597.6	2610.2	2622.4	2480.5	2739.0	3036.4	3182.6	3204.3	2928.7	2772.9	2915.8
62.5°	2487.3	2507.3	2568.2	2633.0	2802.4	2981.3	3069.5	3115.1	3040.4	2981.5	2918.0
65°	2342.9	2353.2	2441.3	2660.0	2679.3	2723.8	2751.1	2809.5	2906.1	3061.9	2813.6
67.5°	2106.1	2136.7	2244.5	2503.0	2315.8	2263.2	2256.4	2198.2	2449.1	2870.2	2556.1
70°	1739.9	1753.6	1886.3	2052.0	1747.7	1666.8	1699.2	1677.4	1898.5	2470.9	2057.3
72.5°	1315.7	1346.6	1476.3	1635.7	1189.3	1084.3	1173.6	1165.5	1426.0	1985.7	1413.4
75°	936.1	956.1	1121.5	1280.1	832.9	705.7	737.8	767.9	995.5	1567.9	835.2
77.5°	643.2	660.4	784.6	846.6	607.5	582.0	532.4	561.5	652.3	930.3	454.5
80°	388.0	387.2	468.9	484.1	423.1	491.4	412.3	462.9	394.3	398.1	176.0
82.5°	251.9	249.4	286.8	312.6	235.5	247.6	166.2	239.5	257.0	111.0	55.6
85°	112.8	117.6	137.8	181.9	103.2	54.9	33.9	73.6	109.5	55.9	0.0
87.5°	11.6	9.1	24.3	44.3	14.2	1.5	5.1	2.5	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°	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6
2.5°	1203.9	1189.3	1145.5	1104.5	1069.4	1026.4	998.6	954.8	928.2	920.2	921.4
5°	1155.6	1113.4	1030.2	963.7	889.5	847.3	783.1	721.4	688.0	675.6	670.0
7.5°	1054.5	1009.2	908.8	804.3	724.9	650.8	603.0	548.6	511.4	480.8	475.5
10°	979.3	919.9	795.5	683.2	620.4	564.8	517.0	462.6	418.8	383.9	374.3
12.5°	934.3	867.8	728.9	634.8	575.4	518.2	456.0	393.1	348.3	310.6	293.1
15°	926.2	849.1	710.2	600.2	526.8	457.8	375.1	307.1	261.0	225.4	214.5
17.5°	975.0	882.7	707.4	564.0	463.4	365.5	279.5	223.1	171.2	151.3	143.4
20°	1062.0	942.2	707.2	522.0	398.1	281.5	196.3	145.4	124.4	114.8	110.3
22.5°	1180.7	1023.1	720.6	485.9	330.3	207.7	140.1	115.8	103.7	95.9	94.1
25°	1325.6	1143.0	753.5	461.3	278.5	162.9	115.6	99.1	89.0	85.5	84.0
27.5°	1454.3	1257.8	789.6	436.0	241.3	144.2	107.2	90.8	82.7	79.9	77.6
30°	1565.4	1362.0	807.1	402.7	211.4	132.0	108.8	97.1	86.5	78.2	74.4
32.5°	1657.9	1441.9	818.5	372.3	186.2	108.0	86.0	75.1	70.3	67.3	64.7
35°	1773.8	1528.4	811.6	355.1	173.3	98.4	78.4	64.7	56.7	50.6	48.1
37.5°	1895.2	1614.9	799.8	340.9	167.4	91.3	74.6	61.5	52.6	46.3	43.0
40°	2020.9	1695.1	785.8	327.8	162.1	86.8	72.3	58.7	49.8	43.0	39.5
42.5°	2136.0	1773.3	780.3	319.2	153.5	87.5	70.6	57.4	47.0	40.0	36.9
45°	2229.1	1847.4	787.9	314.6	144.2	86.2	71.1	55.9	44.8	37.9	34.9
47.5°	2328.5	1952.1	812.4	310.1	135.1	80.2	74.9	55.6	43.8	36.7	33.4
50°	2444.0	2086.2	868.6	299.0	123.9	73.6	79.7	55.4	42.5	35.2	31.9
52.5°	2598.1	2238.4	926.5	279.5	107.7	67.3	76.1	54.6	40.0	33.4	30.1
55°	2736.4	2398.8	975.5	256.5	87.3	58.2	68.5	51.3	35.7	30.4	27.3
57.5°	2793.6	2489.3	974.0	224.6	69.8	51.1	56.4	47.0	31.1	26.8	24.3
59°	2772.6	2477.9	941.4	201.1	63.7	47.3	46.8	46.5	29.1	24.3	22.3
60°	2743.0	2436.5	906.2	189.4	59.9	44.8	43.0	46.0	27.3	22.8	20.7
62.5°	2629.7	2264.5	789.6	169.7	54.9	37.9	34.4	39.0	24.3	19.7	18.0
65°	2465.5	2000.2	668.5	164.2	53.4	31.4	28.6	27.8	20.7	16.7	15.2
67.5°	2145.3	1692.6	541.5	160.4	53.9	26.3	25.0	21.0	17.2	13.9	12.9
70°	1717.6	1319.8	443.4	156.1	54.4	21.5	21.0	16.7	13.9	11.6	10.6
72.5°	1043.6	782.3	349.0	135.6	52.9	17.2	18.7	12.6	10.1	8.3	7.8
75°	645.2	535.4	216.5	105.5	34.9	12.6	13.2	7.8	6.8	5.3	5.3
77.5°	373.8	338.2	77.4	37.9	15.4	7.6	5.8	4.0	3.8	2.3	2.3
80°	155.0	124.2	26.8	12.9	8.3	3.5	1.3	0.3	0.0	0.0	0.0
82.5°	45.3	40.2	7.3	5.8	2.5	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°	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6
2.5°	899.9	891.6	887.8	900.7	888.8	904.0	892.3	897.4	912.3	918.9	935.8
5°	673.5	664.9	660.9	680.4	679.4	689.0	688.0	696.8	704.4	687.5	704.9
7.5°	469.2	463.4	473.0	488.2	504.3	499.0	499.0	487.1	491.2	488.7	487.9
10°	356.9	336.9	331.8	331.3	337.4	338.7	331.8	315.4	321.5	323.2	333.9
12.5°	280.8	265.3	241.8	231.2	228.4	230.7	208.2	193.7	200.6	196.5	206.9
15°	201.3	188.7	174.8	162.9	159.6	155.0	130.5	113.3	111.3	112.0	113.8
17.5°	143.7	135.1	135.1	122.4	115.6	101.9	89.5	81.9	81.2	81.9	83.2
20°	106.0	101.4	100.9	97.6	90.0	80.9	72.3	70.8	70.3	71.6	72.1
22.5°	91.3	86.5	82.5	82.2	75.1	67.5	63.5	61.5	61.7	62.2	63.5
25°	81.7	76.6	72.3	69.8	64.7	59.4	55.6	54.6	54.6	55.4	55.6
27.5°	74.9	68.5	64.7	61.2	56.7	52.1	48.8	48.1	47.6	48.1	49.3
30°	70.1	63.7	58.9	53.6	50.1	45.8	43.0	42.0	41.7	42.0	43.0
32.5°	59.9	56.2	52.4	47.6	43.3	40.5	37.4	35.7	35.7	36.2	37.2
35°	45.3	43.3	43.0	41.7	38.2	35.2	31.6	29.8	29.8	30.9	31.4
37.5°	40.0	36.2	35.7	35.2	33.6	29.6	26.3	24.8	24.5	25.3	26.3
40°	36.4	32.1	29.8	29.3	29.6	25.0	21.5	20.0	20.0	20.2	21.2
42.5°	33.6	28.6	24.5	24.0	25.0	21.0	17.5	15.9	15.9	15.9	17.2
45°	31.4	25.5	20.7	18.2	19.7	17.2	14.2	12.6	12.1	12.6	13.2
47.5°	29.8	23.3	18.2	14.7	14.7	13.7	11.4	9.6	9.1	9.4	10.1
50°	28.6	21.2	15.4	11.9	10.6	10.9	8.6	7.3	6.8	6.8	7.6
52.5°	26.6	19.2	13.4	10.1	8.1	7.3	6.3	5.3	5.1	5.3	5.8
55°	24.0	17.5	11.6	8.3	6.3	5.1	4.6	3.8	3.5	3.8	4.6
57.5°	21.2	14.7	9.4	6.6	4.3	3.3	3.0	2.5	2.0	2.3	2.8
59°	19.5	13.2	8.1	5.3	3.3	2.3	2.3	1.8	1.3	1.5	2.3
60°	18.7	12.1	6.8	4.6	2.8	1.8	1.8	1.3	0.8	1.0	1.8
62.5°	15.9	10.1	5.3	2.8	1.3	0.3	0.8	0.3	0.0	0.3	0.8
65°	13.4	8.1	3.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3
67.5°	11.1	6.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	8.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6.1	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	3.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1.5	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°	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6	1112.6
2.5°	936.8	973.0	995.3	1037.3	1080.3	1113.4	1154.9	1192.0	1207.5	1215.6
5°	722.6	772.9	815.7	879.7	939.1	1011.5	1084.8	1171.3	1204.4	1213.0
7.5°	507.1	558.5	603.2	677.3	762.1	858.9	968.7	1078.5	1126.8	1140.5
10°	366.2	421.1	475.8	549.9	629.0	734.0	848.3	984.1	1039.8	1050.4
12.5°	231.2	290.1	378.9	470.4	554.2	638.6	758.3	906.0	967.4	986.9
15°	134.1	178.1	245.1	364.5	471.0	582.7	713.3	876.6	945.4	965.4
17.5°	89.8	105.0	151.0	242.3	382.9	531.1	701.9	900.7	976.8	1002.4
20°	75.6	82.5	98.6	147.7	294.9	485.1	704.9	965.9	1065.8	1097.7
22.5°	66.5	72.8	83.2	106.2	205.9	428.0	719.3	1059.3	1188.3	1229.0
25°	58.7	65.0	74.1	88.0	138.4	361.9	750.9	1195.8	1350.4	1395.2
27.5°	52.1	57.9	65.8	77.6	106.5	288.3	779.0	1328.9	1498.3	1534.8
30°	46.0	50.8	58.4	67.5	88.5	222.3	793.2	1445.2	1606.1	1646.6
32.5°	40.0	44.5	51.9	59.2	72.8	169.5	783.3	1530.7	1710.8	1736.6
35°	34.1	39.0	45.0	51.9	63.0	136.8	734.0	1626.8	1819.3	1839.5
37.5°	29.3	33.4	39.7	45.0	56.9	109.5	674.3	1713.3	1941.0	1970.1
40°	24.8	28.8	35.2	40.0	52.4	86.2	620.4	1809.4	2069.2	2105.1
42.5°	20.2	25.0	30.6	38.4	45.0	65.8	555.2	1887.3	2165.6	2210.6
45°	16.2	21.5	27.6	38.2	39.2	50.1	492.2	1948.1	2250.8	2291.3
47.5°	12.9	18.2	26.6	35.7	32.1	39.7	456.3	2011.5	2321.6	2354.0
50°	10.4	15.2	27.8	31.4	26.8	33.6	455.3	2082.4	2358.3	2379.8
52.5°	8.3	12.4	23.5	24.0	22.8	29.6	482.6	2162.0	2395.7	2413.4
55°	7.1	10.4	15.4	17.7	20.5	26.8	503.1	2284.7	2485.0	2501.7
57.5°	5.6	8.9	11.9	14.2	18.2	24.5	505.9	2379.3	2598.1	2609.0
59°	4.8	7.6	10.6	12.6	16.7	23.0	494.5	2385.1	2605.4	2622.9
60°	4.0	6.8	9.4	11.9	15.4	21.8	482.1	2342.9	2578.1	2597.6
62.5°	3.0	5.3	6.8	9.6	12.6	18.7	423.4	2195.4	2473.6	2487.3
65°	2.0	3.8	5.1	7.1	9.9	16.2	345.0	2004.2	2312.3	2342.9
67.5°	1.3	2.8	4.0	5.3	8.1	13.7	245.8	1718.6	2086.4	2106.1
70°	0.8	1.8	3.0	4.3	6.3	10.9	145.9	1358.5	1735.8	1739.9
72.5°	0.5	1.3	2.0	3.0	5.1	9.9	70.8	885.5	1267.4	1315.7
75°	0.3	0.8	1.3	2.3	4.0	8.1	33.9	591.6	922.2	936.1
77.5°	0.0	0.3	0.8	1.5	3.0	6.3	19.7	388.5	628.8	643.2
80°	0.0	0.0	0.5	1.3	2.3	4.0	11.9	229.2	380.9	388.0
82.5°	0.0	0.0	0.3	1.0	1.5	3.0	6.1	100.7	249.4	251.9
85°	0.0	0.0	0.3	1.0	1.3	2.0	2.3	13.7	110.8	112.8
87.5°	0.0	0.0	0.3	1.3	1.3	1.3	1.3	0.8	9.4	11.6
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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