

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: P450377

Luminaire Tested: **GALN-SA1A-830-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450377
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-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 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: 3170 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

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



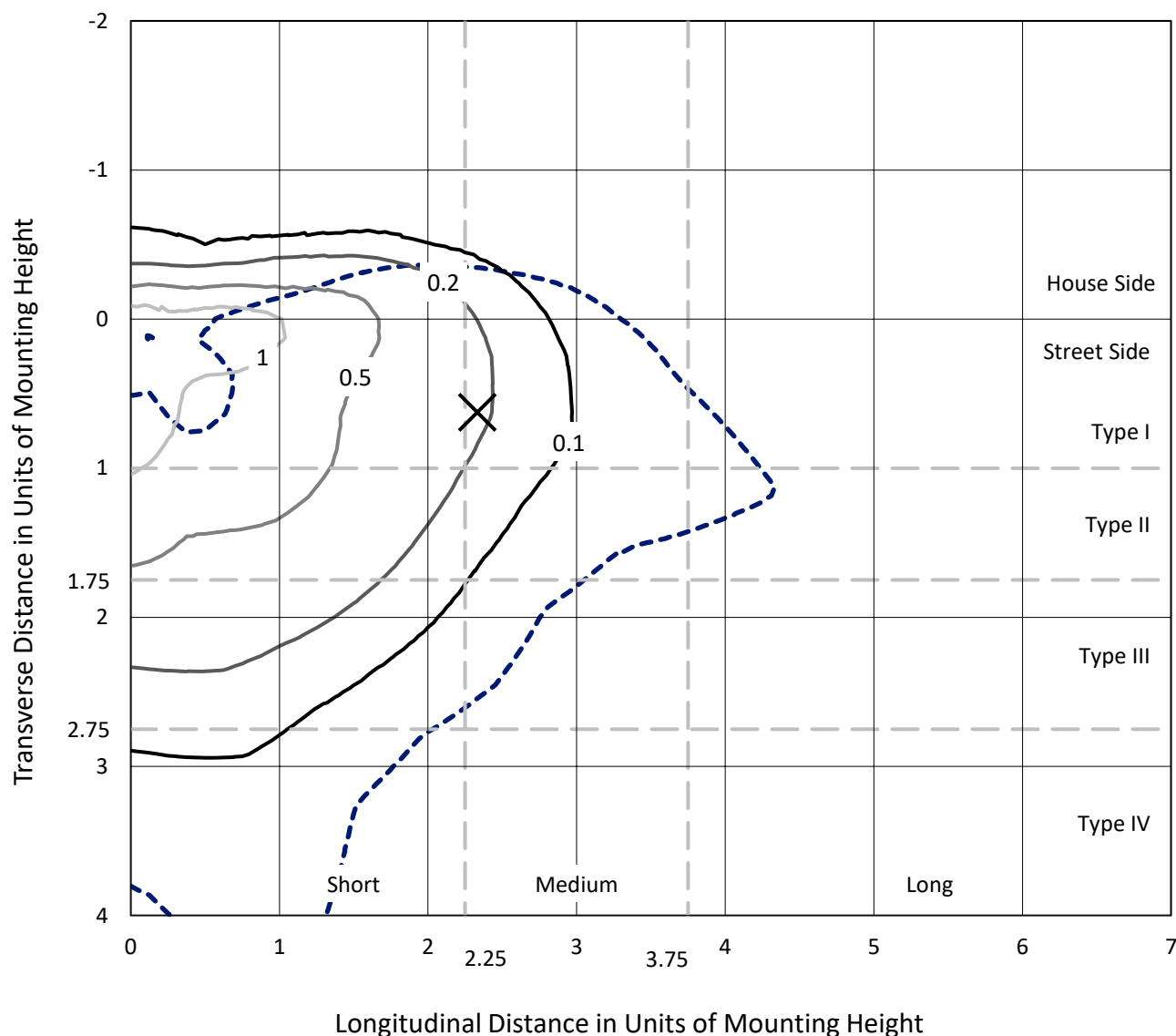
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

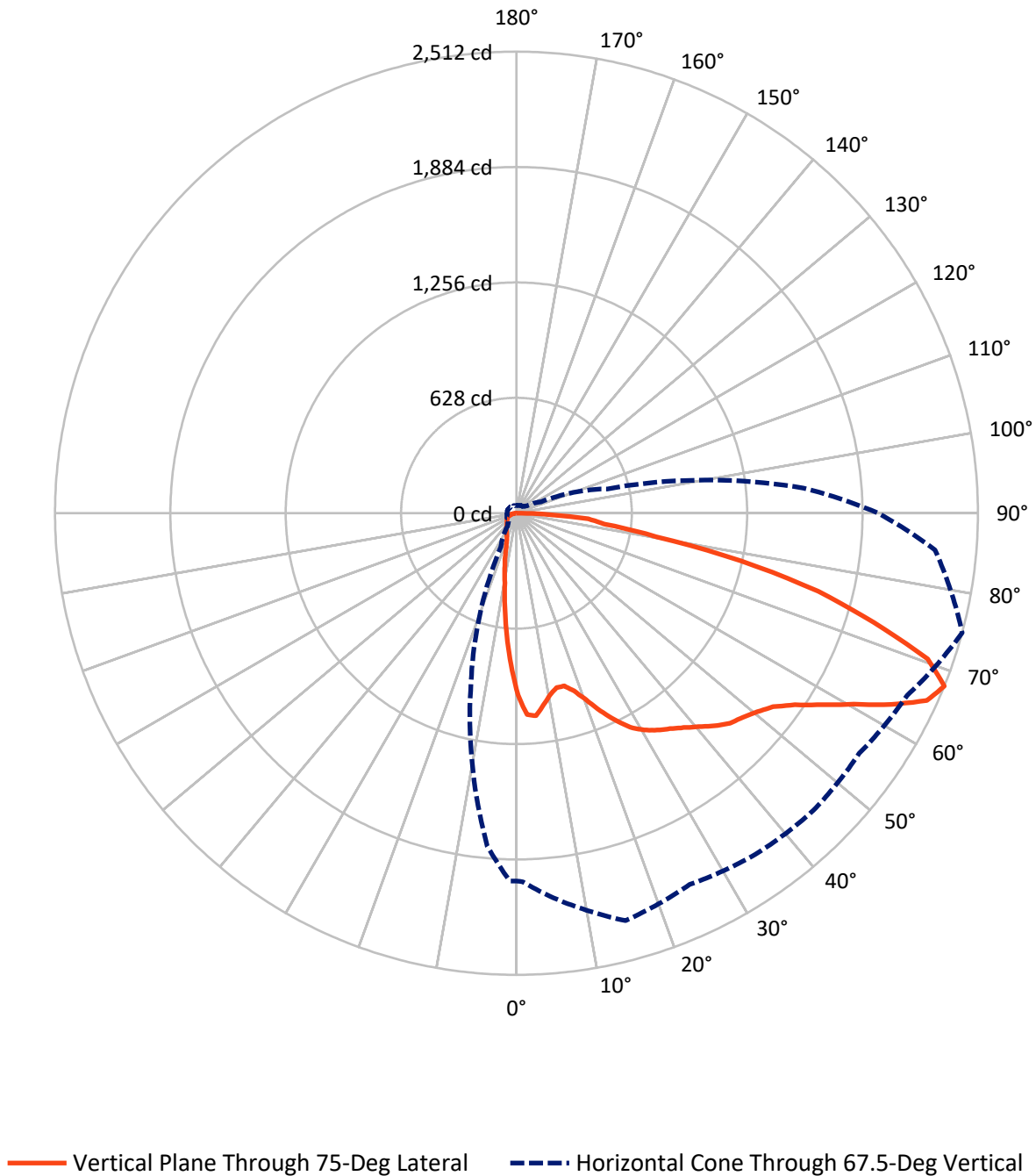


Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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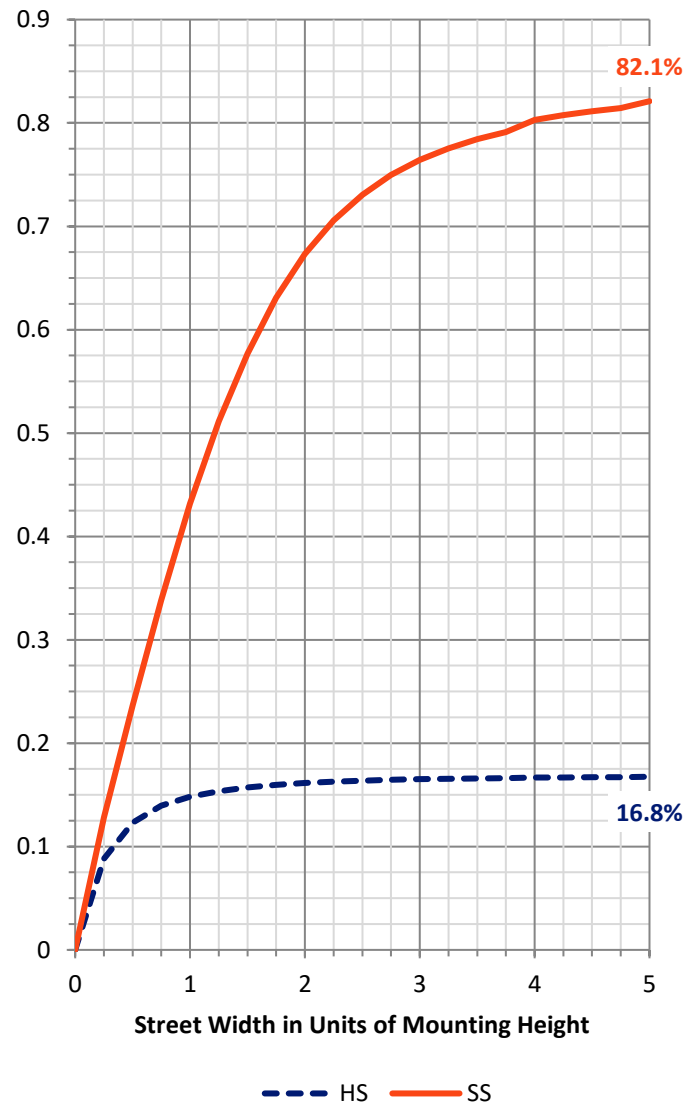
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	535.8	0.0	535.8
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	2634.2	0.0	2634.2
	% Fixture	83.1	0.0	83.1
Total	Lumens	3170.0	0.0	3170.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.1	2.4
10°-20°	156.7	4.9
20°-30°	225.4	7.1
30°-40°	324.7	10.2
40°-50°	456.1	14.4
50°-60°	636.1	20.1
60°-70°	756.3	23.9
70°-80°	445.4	14.1
80°-90°	94.2	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°	3170.0	100.0
0°-180°	3170.0	100.0

Coefficient of Utilization



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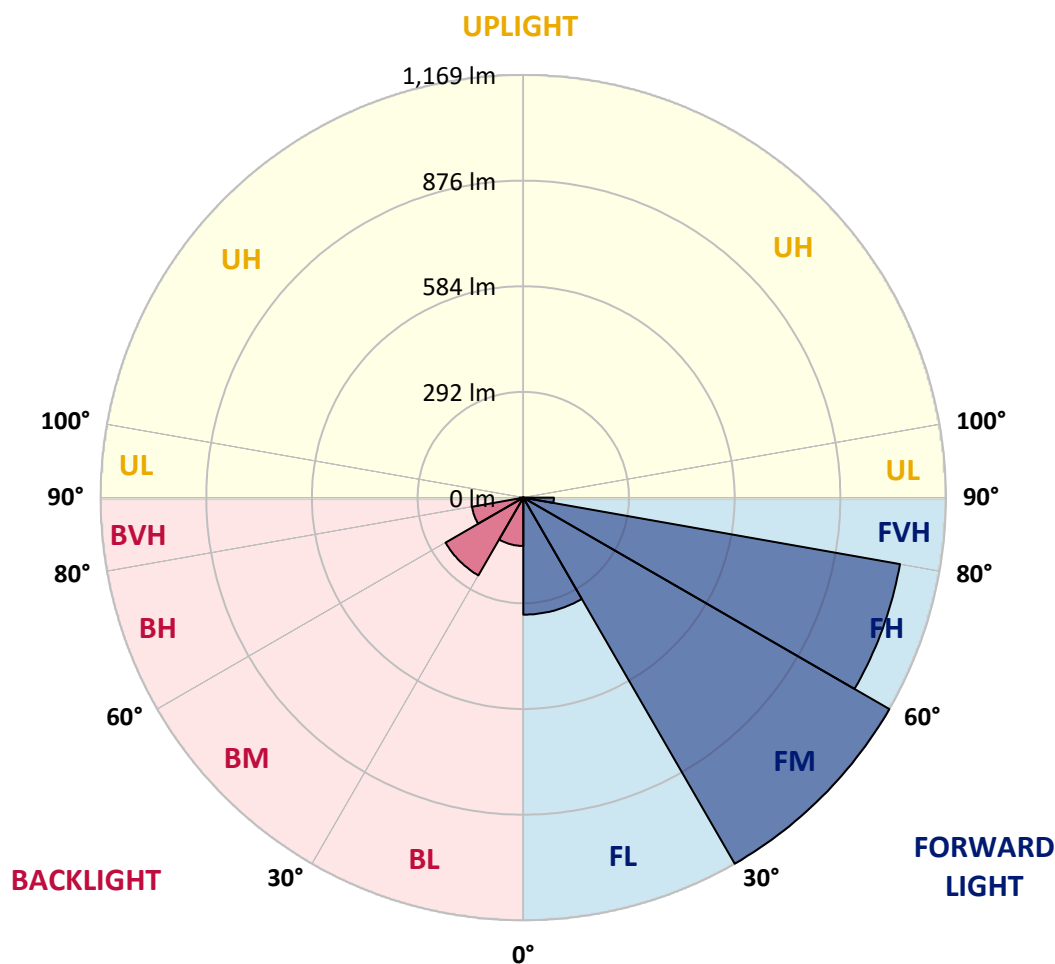
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	323.6	10.2			
FM	(30°-60°)	1168.7	36.9			
FH	(60°-80°)	1057.5	33.4			G1/1800
FVH	(80°-90°)	84.4	2.7			G1/100
BL	(0°-30°)	133.6	4.2	B1/500		
BM	(30°-60°)	248.2	7.8	B1/1000		
BH	(60°-80°)	144.2	4.5	B1/500		G1/500
BVH	(80°-90°)	9.7	0.3			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	990.4	990.4	990.4	990.4	990.4	990.4	990.4	990.4	990.4	990.4	990.4
2.5°	1067.8	1069.3	1078.4	1105.0	1123.3	1130.0	1134.7	1126.0	1117.4	1096.7	1065.4
5°	1064.6	1072.9	1096.7	1156.5	1203.6	1224.0	1230.1	1203.8	1160.5	1107.3	1043.2
7.5°	1002.4	1013.6	1050.1	1150.4	1233.5	1281.1	1274.8	1227.4	1149.3	1054.4	965.0
10°	928.6	941.0	985.1	1106.3	1213.4	1278.8	1278.8	1221.1	1117.4	1004.6	901.5
12.5°	870.0	883.1	933.5	1060.9	1171.5	1233.5	1243.9	1194.3	1094.5	973.1	859.9
15°	850.7	863.3	917.6	1033.5	1127.2	1165.0	1168.5	1152.2	1083.3	975.3	858.0
17.5°	874.7	891.0	945.9	1041.6	1086.5	1088.8	1091.4	1104.2	1084.5	1016.2	895.0
20°	944.0	961.5	1018.8	1067.8	1051.0	1027.8	1029.2	1062.1	1098.9	1083.7	983.5
22.5°	1044.0	1059.3	1118.0	1114.0	1035.9	988.1	978.2	1024.1	1120.3	1167.8	1077.6
25°	1152.0	1169.9	1237.4	1182.5	1040.2	964.6	958.3	1001.8	1142.4	1246.5	1186.3
27.5°	1275.6	1293.1	1346.3	1251.6	1062.5	962.7	955.2	999.7	1162.4	1319.3	1290.2
30°	1367.5	1383.5	1419.7	1309.7	1090.0	974.9	965.6	1015.8	1179.4	1369.1	1391.5
32.5°	1439.6	1456.3	1476.0	1345.9	1126.2	997.1	979.8	1045.1	1201.8	1407.1	1466.5
35°	1514.8	1534.6	1533.1	1378.0	1159.9	1022.7	1005.8	1087.3	1237.0	1440.2	1561.6
37.5°	1610.2	1618.1	1607.9	1406.9	1200.4	1068.8	1059.5	1150.2	1287.0	1480.3	1672.8
40°	1706.9	1722.8	1670.6	1441.9	1249.6	1155.7	1154.6	1243.1	1346.3	1527.2	1780.5
42.5°	1789.9	1803.3	1729.1	1472.4	1309.1	1261.6	1269.3	1367.7	1424.2	1581.7	1867.1
45°	1852.3	1864.3	1783.2	1501.8	1387.6	1383.9	1429.5	1501.2	1522.4	1630.7	1918.0
47.5°	1905.3	1916.9	1820.8	1546.6	1484.6	1530.1	1609.4	1640.5	1606.3	1658.8	1974.9
50°	1950.1	1953.5	1846.6	1599.8	1604.9	1709.2	1786.0	1806.1	1689.3	1699.0	2024.3
52.5°	1996.6	1992.1	1891.1	1666.9	1735.0	1879.1	1935.0	1956.0	1768.7	1748.6	2096.2
55°	2100.9	2105.2	1990.9	1751.5	1866.5	2046.0	2119.6	2099.5	1856.8	1839.9	2187.7
57.5°	2226.9	2223.3	2131.4	1883.8	2000.5	2201.3	2256.2	2223.9	1974.3	1965.3	2280.4
60°	2275.9	2280.8	2248.9	2026.1	2132.6	2337.3	2393.4	2343.2	2115.1	2111.1	2350.3
62.5°	2226.7	2254.2	2275.7	2152.7	2245.2	2437.3	2493.0	2435.7	2262.1	2291.6	2399.3
65°	2128.8	2134.6	2208.0	2260.1	2299.5	2453.8	2482.9	2452.4	2384.9	2456.0	2397.1
67.5°	2001.5	2006.6	2092.6	2295.2	2229.6	2266.8	2287.1	2278.2	2346.9	2512.3	2286.7
70°	1880.3	1876.3	1967.1	2205.6	1940.9	1884.4	1901.3	1873.2	2025.1	2374.7	2070.2
72.5°	1644.5	1659.2	1756.8	1956.4	1536.8	1444.9	1481.7	1409.1	1557.5	2033.8	1680.3
75°	1288.2	1291.6	1454.5	1641.9	1159.3	1014.4	1064.2	1033.9	1193.1	1696.6	1160.3
77.5°	892.0	884.3	1059.3	1254.0	826.7	742.6	743.4	729.0	833.0	1249.2	788.3
80°	566.5	554.8	663.1	774.7	568.2	607.8	587.9	587.3	542.4	770.6	476.7
82.5°	306.1	319.2	419.0	485.6	407.6	469.8	430.5	417.9	372.2	482.4	304.9
85°	139.5	151.6	223.4	330.3	309.6	313.1	209.2	246.8	308.0	391.7	162.8
87.5°	13.6	17.5	46.1	155.9	105.7	83.3	31.1	60.0	77.4	139.2	13.0
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°	990.4	990.4	990.4	990.4	990.4	990.4	990.4	990.4	990.4	990.4	990.4
2.5°	1052.6	1042.0	1006.0	976.4	944.8	920.9	889.6	868.6	854.2	832.4	829.8
5°	1004.2	978.4	915.8	851.9	796.9	755.4	713.3	674.7	651.9	644.8	635.7
7.5°	922.7	879.2	798.7	725.5	662.3	600.5	552.9	519.2	496.6	483.4	467.5
10°	855.6	805.2	707.2	617.6	565.5	527.1	485.2	449.0	421.2	397.4	384.4
12.5°	810.5	753.6	643.4	570.6	530.4	489.5	440.5	399.9	358.8	331.8	320.2
15°	796.9	736.7	623.7	547.2	489.5	436.0	381.2	328.1	287.4	261.8	253.3
17.5°	830.2	757.4	623.5	516.1	441.5	377.7	307.4	257.6	215.9	196.8	190.7
20°	892.4	797.3	625.3	485.4	389.5	299.6	223.6	182.7	162.8	154.7	151.6
22.5°	979.2	858.0	630.8	455.1	332.6	230.1	167.5	146.8	139.7	138.2	137.6
25°	1086.1	933.3	649.3	427.9	284.6	175.6	140.1	130.7	126.6	125.2	125.0
27.5°	1184.5	1030.4	671.6	404.5	238.2	151.4	126.6	118.7	114.7	114.4	114.9
30°	1273.3	1111.7	690.3	378.3	203.1	134.6	117.9	110.0	106.1	105.9	107.1
32.5°	1350.2	1178.6	704.2	352.5	183.6	124.2	110.0	101.4	98.2	97.6	98.2
35°	1432.3	1245.3	697.9	332.4	172.4	115.7	104.1	95.7	91.9	90.1	90.1
37.5°	1526.0	1314.0	687.1	315.7	167.3	108.6	99.0	90.9	87.0	85.2	85.0
40°	1628.3	1382.7	672.2	300.9	162.2	104.3	95.5	87.0	82.3	80.5	80.1
42.5°	1718.5	1441.5	660.1	291.1	153.9	105.1	92.5	84.2	78.3	75.8	75.6
45°	1797.0	1500.6	657.8	285.4	147.0	103.9	91.7	81.9	75.0	72.4	72.0
47.5°	1858.4	1562.2	670.6	282.2	139.5	97.4	97.0	80.5	72.2	69.3	68.9
50°	1933.2	1649.6	699.9	275.4	132.5	91.3	102.5	80.3	69.9	66.3	65.3
52.5°	2032.8	1763.5	739.5	263.5	122.6	85.6	97.8	80.3	67.3	63.6	62.4
55°	2183.4	1908.6	778.4	246.6	108.6	78.1	88.2	77.9	63.4	60.2	59.4
57.5°	2283.2	2014.7	803.2	223.2	91.1	72.6	76.0	74.0	59.6	56.1	56.1
60°	2288.3	2043.2	791.4	193.7	80.1	67.5	66.1	74.6	56.1	52.4	52.0
62.5°	2229.8	1973.4	730.0	167.3	74.2	62.0	59.8	65.5	52.6	49.0	48.4
65°	2138.3	1795.6	623.5	154.7	70.9	57.1	53.9	53.7	49.0	45.5	44.7
67.5°	1970.2	1569.1	512.3	147.4	69.3	51.6	48.6	47.6	44.7	41.9	41.5
70°	1722.4	1314.2	410.8	144.3	68.5	45.9	43.5	42.3	39.8	37.6	37.4
72.5°	1340.0	1066.0	339.1	142.3	68.1	40.7	38.0	36.4	35.0	32.9	32.9
75°	962.5	784.3	258.8	128.3	63.0	35.0	32.1	31.1	29.1	27.4	27.8
77.5°	606.8	528.1	170.3	94.3	48.8	28.1	25.6	25.0	23.4	21.1	22.6
80°	409.8	371.4	99.4	59.4	30.7	20.5	19.7	19.5	17.7	15.2	15.4
82.5°	278.9	273.6	51.6	33.7	17.7	12.0	11.6	12.0	10.0	8.1	8.1
85°	109.0	148.8	24.4	13.2	5.7	1.8	2.6	2.8	1.6	0.8	1.0
87.5°	2.0	15.2	0.6	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°	990.4	990.4	990.4	990.4	990.4	990.4	990.4	990.4	990.4	990.4	990.4
2.5°	825.7	823.9	826.9	813.9	816.6	821.5	823.9	825.3	845.4	840.8	853.6
5°	644.2	642.4	654.2	655.8	661.9	660.7	666.6	668.0	675.3	677.9	695.8
7.5°	468.6	476.5	489.9	496.8	507.2	510.4	507.4	514.9	499.7	510.6	513.9
10°	376.5	366.9	361.2	377.1	379.1	394.2	388.1	383.2	392.1	392.5	401.1
12.5°	313.5	292.9	279.3	283.8	288.7	295.2	296.2	305.9	312.4	318.5	323.6
15°	245.8	238.7	226.3	220.2	227.1	229.7	236.0	244.1	251.1	252.9	259.8
17.5°	188.6	189.9	187.8	184.2	188.4	190.5	190.9	191.1	192.9	191.7	201.9
20°	151.9	156.1	161.2	162.0	163.4	164.5	162.6	155.7	155.9	160.2	163.4
22.5°	137.4	138.2	143.9	145.8	150.2	148.4	143.1	139.9	139.5	140.5	142.1
25°	126.0	127.3	131.3	134.2	137.6	134.4	130.5	127.5	127.1	128.1	129.7
27.5°	115.9	117.7	121.4	124.2	127.5	124.4	120.7	118.1	117.9	117.7	118.7
30°	107.7	109.8	112.4	115.7	117.9	115.3	111.8	110.4	110.2	109.8	110.2
32.5°	99.6	102.9	105.5	107.1	109.4	107.3	104.7	103.9	102.5	101.2	100.6
35°	90.5	93.9	98.0	100.0	102.3	100.2	98.4	94.9	92.5	92.3	92.7
37.5°	85.2	86.6	89.9	93.3	95.5	94.5	91.1	87.6	87.0	87.0	87.4
40°	80.5	81.1	82.5	87.0	91.1	88.0	83.8	82.7	82.7	82.5	82.7
42.5°	75.8	76.4	76.4	79.9	86.4	81.5	78.3	78.3	78.3	78.5	79.1
45°	71.6	71.8	71.6	74.0	80.1	76.0	73.8	74.4	74.8	75.2	75.6
47.5°	67.9	68.1	67.9	69.9	73.0	71.4	70.1	70.9	71.8	72.4	72.8
50°	64.6	64.4	64.8	66.1	67.5	67.9	67.1	68.3	68.7	69.5	70.5
52.5°	61.8	61.6	62.0	62.6	64.6	64.6	64.6	65.7	66.5	67.3	68.7
55°	58.5	58.7	59.4	60.2	62.8	62.4	62.6	63.4	64.2	65.5	66.3
57.5°	55.5	55.9	56.7	57.9	60.6	60.4	60.6	61.0	62.0	62.6	63.4
60°	52.0	52.9	53.9	54.7	57.3	57.1	58.1	59.0	59.6	59.6	60.0
62.5°	48.6	49.8	50.8	51.4	54.3	54.5	55.9	56.5	56.9	56.5	57.1
65°	45.1	47.0	47.4	48.2	51.0	51.2	52.9	54.3	53.9	53.5	54.5
67.5°	41.7	43.9	43.7	44.7	47.6	48.0	49.4	51.8	51.0	50.6	51.4
70°	37.8	39.4	39.6	40.2	44.1	43.5	45.7	48.0	47.4	47.6	47.6
72.5°	33.5	35.0	35.0	36.2	40.2	39.2	41.1	43.5	43.5	43.3	43.3
75°	28.5	29.3	30.1	31.9	36.2	35.0	36.2	38.4	38.8	38.4	38.4
77.5°	23.0	24.2	24.6	27.0	30.1	29.9	31.1	32.1	32.9	32.5	32.5
80°	16.3	17.5	19.1	21.8	23.6	24.2	24.8	25.6	26.0	26.0	26.4
82.5°	9.1	11.0	12.4	15.0	15.9	18.9	18.7	19.3	18.7	16.5	18.3
85°	2.0	3.9	5.5	6.9	7.9	11.0	11.6	13.0	10.8	10.0	10.0
87.5°	0.0	0.0	0.0	0.0	0.0	1.6	3.3	4.5	3.9	3.3	3.3
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°	990.4	990.4	990.4	990.4	990.4	990.4	990.4	990.4	990.4	990.4
2.5°	864.3	882.0	903.4	940.2	966.0	993.8	1021.9	1051.8	1059.7	1067.8
5°	700.7	735.5	754.4	803.8	855.6	921.5	975.3	1034.3	1058.9	1064.6
7.5°	530.8	554.3	603.9	654.0	718.2	787.3	869.8	961.7	990.4	1002.4
10°	420.8	452.9	496.4	550.1	606.4	680.8	773.9	881.2	921.9	928.6
12.5°	358.2	394.0	441.3	498.0	551.3	607.4	701.3	812.1	855.6	870.0
15°	286.4	329.7	384.4	444.2	502.1	563.5	658.6	783.6	833.9	850.7
17.5°	225.0	260.0	319.2	384.0	452.7	530.4	649.7	797.3	859.1	874.7
20°	172.2	197.2	247.0	315.5	396.0	497.6	651.9	848.7	922.7	944.0
22.5°	148.8	161.6	191.9	257.1	347.2	469.2	661.1	919.2	1008.5	1044.0
25°	134.8	141.5	158.6	201.2	300.7	441.5	682.0	1014.2	1128.4	1152.0
27.5°	122.8	127.7	138.2	168.9	258.4	415.9	706.4	1119.5	1240.4	1275.6
30°	111.4	117.9	127.9	150.0	231.3	392.5	737.1	1204.8	1334.7	1367.5
32.5°	102.7	109.2	118.3	136.8	208.4	367.9	755.4	1279.9	1411.8	1439.6
35°	95.5	101.0	110.6	126.2	190.9	349.2	751.7	1339.4	1486.4	1514.8
37.5°	90.5	95.1	104.7	116.3	177.7	329.7	749.9	1418.1	1577.3	1610.2
40°	85.8	90.7	99.4	109.8	164.5	306.8	750.9	1496.1	1674.0	1706.9
42.5°	82.1	87.6	94.7	107.9	150.8	288.3	750.9	1564.0	1758.2	1789.9
45°	79.1	85.0	91.9	107.7	140.1	274.2	745.8	1622.4	1825.3	1852.3
47.5°	76.4	82.9	92.9	104.1	137.4	264.1	741.4	1669.1	1879.9	1905.3
50°	74.6	82.3	98.8	99.8	138.2	261.0	762.9	1728.1	1928.1	1950.1
52.5°	73.2	82.5	98.6	93.5	136.8	263.0	807.8	1820.2	1995.0	1996.6
55°	70.3	82.3	93.5	86.4	130.9	266.5	865.6	1953.9	2099.7	2100.9
57.5°	67.5	80.1	86.8	80.3	118.9	266.5	935.1	2080.6	2225.9	2226.9
60°	64.6	83.3	76.2	75.0	103.3	261.6	1008.5	2136.3	2265.6	2275.9
62.5°	61.8	84.0	68.1	70.3	91.9	249.8	1063.2	2074.7	2211.9	2226.7
65°	58.5	67.7	62.8	65.5	86.0	230.1	1045.9	1961.9	2111.1	2128.8
67.5°	54.7	57.3	57.1	60.4	84.0	201.0	954.8	1819.2	2002.5	2001.5
70°	50.0	51.4	52.0	55.5	80.1	178.5	795.6	1634.0	1857.6	1880.3
72.5°	45.1	46.3	47.0	50.0	76.2	165.7	617.6	1378.9	1609.0	1644.5
75°	39.8	40.7	41.5	44.1	72.2	146.8	439.9	1052.6	1232.3	1288.2
77.5°	34.4	34.4	35.4	38.0	60.8	121.2	295.2	738.3	834.9	892.0
80°	27.8	28.1	27.6	30.5	44.7	82.9	167.7	493.2	555.6	566.5
82.5°	21.3	20.7	20.9	22.4	33.3	56.5	89.4	306.3	312.2	306.1
85°	13.4	13.4	13.0	14.6	21.3	29.5	48.8	187.6	146.6	139.5
87.5°	5.5	4.5	5.1	5.9	10.2	12.0	19.1	38.6	14.8	13.6
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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