

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: P450378

Luminaire Tested: **GALN-SA1A-830-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450378
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
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-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2641 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - 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



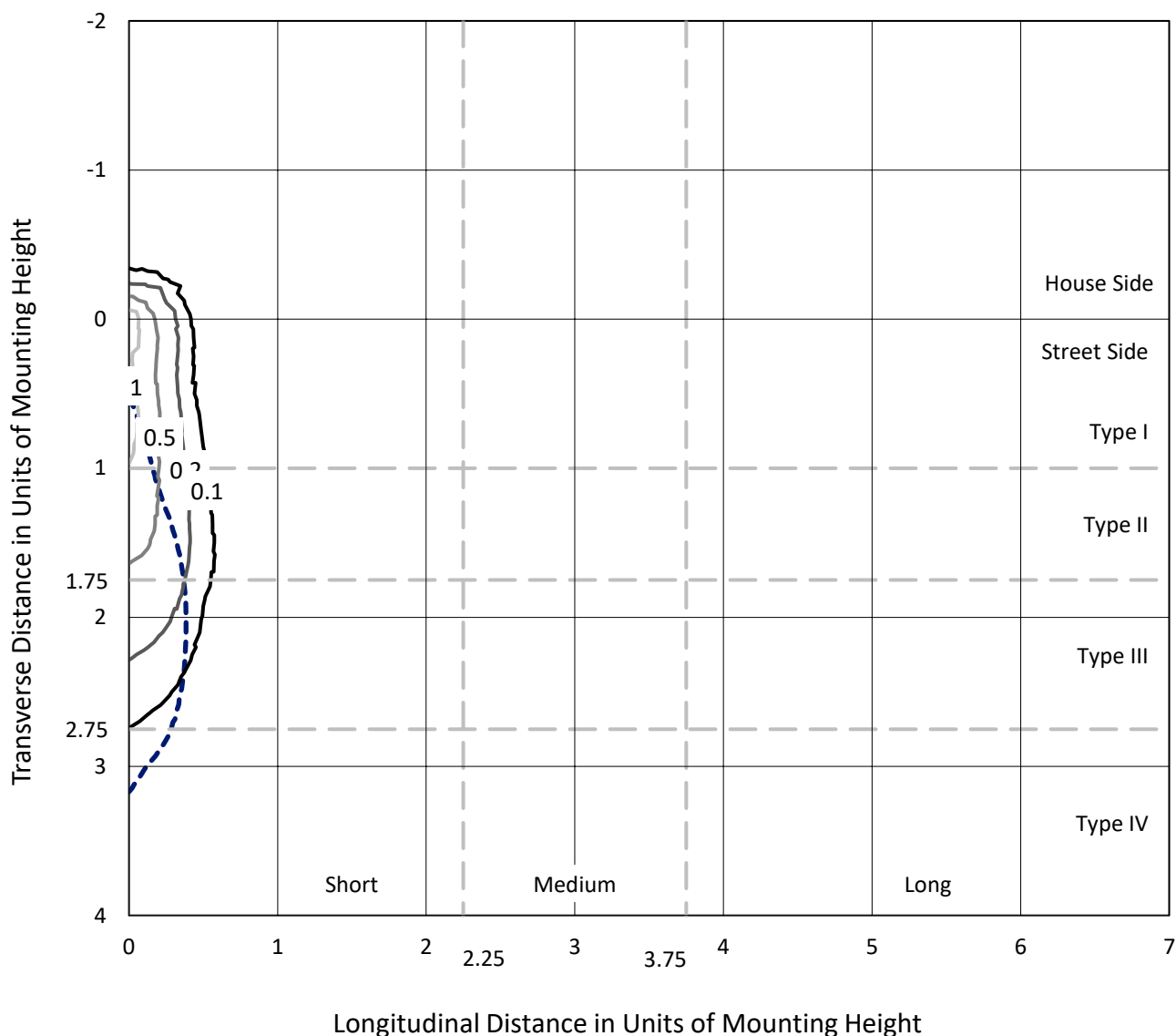
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

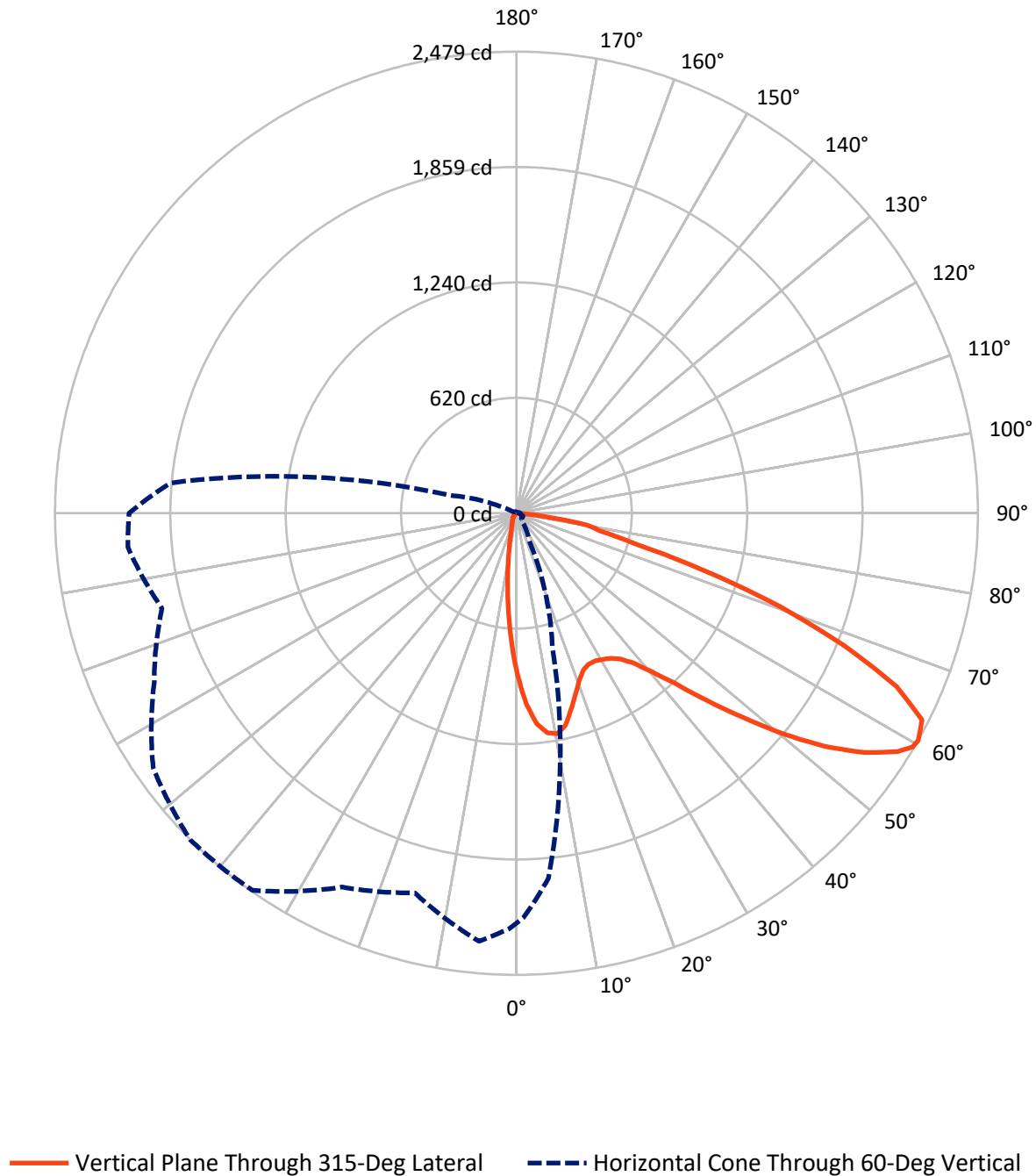


Based on 25 foot mounting height. Maximum calculated value = 1.4 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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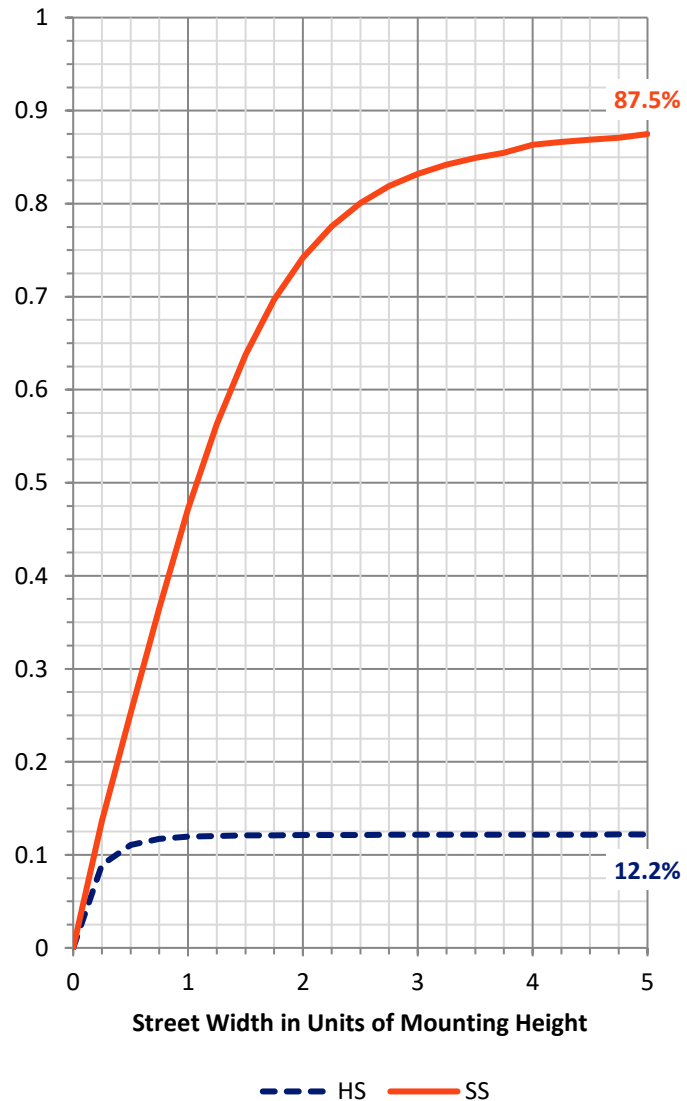
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	325.7	0.0	325.7
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	2315.3	0.0	2315.3
	% Fixture	87.7	0.0	87.7
Total	Lumens	2641.0	0.0	2641.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.9	2.5
10°-20°	128.9	4.9
20°-30°	189.1	7.2
30°-40°	281.2	10.6
40°-50°	409.2	15.5
50°-60°	590.1	22.3
60°-70°	649.0	24.6
70°-80°	290.7	11.0
80°-90°	38.0	1.4
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°	2641.0	100.0
0°-180°	2641.0	100.0

Coefficient of Utilization



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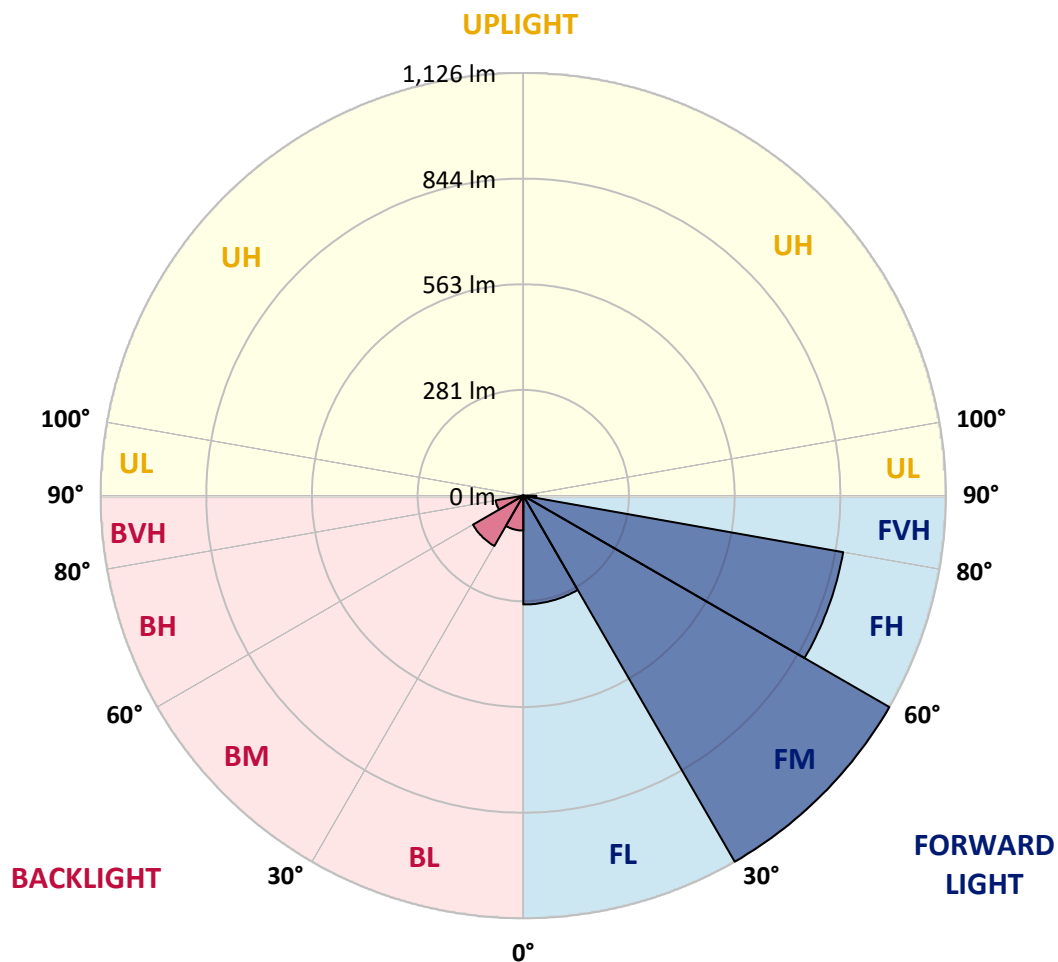
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	289.8	11.0			
FM	(30°-60°)	1125.7	42.6			
FH	(60°-80°)	865.0	32.8			G1/1800
FVH	(80°-90°)	34.7	1.3			G1/100
BL	(0°-30°)	93.1	3.5	B0/110		
BM	(30°-60°)	154.7	5.9	B0/220		
BH	(60°-80°)	74.7	2.8	B0/110		G0/110
BVH	(80°-90°)	3.2	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	872.9	872.9	872.9	872.9	872.9	872.9	872.9	872.9	872.9	872.9	872.9
2.5°	959.6	955.4	945.8	916.5	891.0	857.6	823.9	797.4	781.1	751.2	737.6
5°	929.7	931.7	903.8	843.6	776.5	730.8	680.8	641.0	597.2	569.5	540.4
7.5°	851.6	847.6	817.3	733.4	651.9	585.6	522.4	471.0	438.7	412.8	391.1
10°	784.8	781.7	743.0	635.0	547.5	497.9	455.1	410.1	375.4	337.5	307.2
12.5°	742.8	736.0	691.4	578.6	507.3	461.1	414.6	367.8	319.8	281.5	244.7
15°	728.7	718.9	669.3	559.1	481.6	423.0	364.6	310.8	255.6	213.2	185.5
17.5°	754.2	738.0	685.2	555.7	450.9	373.2	301.3	231.3	173.9	141.5	124.5
20°	812.7	794.0	725.3	552.3	416.8	317.4	229.1	163.4	120.3	102.6	93.2
22.5°	899.4	873.7	784.8	557.7	385.3	263.0	165.4	115.4	95.6	84.5	77.9
25°	1003.6	982.1	860.0	577.0	360.4	220.2	127.9	94.4	80.5	73.7	68.7
27.5°	1117.8	1083.5	957.4	600.1	337.7	187.1	112.2	84.3	71.7	65.4	62.8
30°	1199.1	1172.4	1038.9	616.1	309.4	162.2	102.6	83.1	71.9	64.4	59.6
32.5°	1279.4	1245.3	1107.2	623.5	288.7	144.9	88.7	72.5	63.0	59.2	54.4
35°	1365.3	1329.6	1175.2	619.5	273.2	133.5	80.5	64.6	54.0	47.6	42.8
37.5°	1452.3	1414.5	1242.9	605.1	263.6	128.9	74.1	61.4	51.0	44.4	39.1
40°	1555.5	1505.1	1306.3	593.2	253.6	126.5	69.9	59.4	48.8	41.8	36.5
42.5°	1639.8	1591.8	1366.3	587.0	246.7	120.9	69.9	57.8	47.4	39.5	34.1
45°	1719.7	1669.9	1431.2	592.0	243.9	113.8	70.7	57.6	46.4	37.9	32.5
47.5°	1786.5	1743.4	1497.8	610.9	240.3	106.2	66.5	60.4	45.8	36.5	30.9
50°	1865.4	1823.7	1586.0	649.0	233.9	98.6	61.2	65.0	45.6	35.3	29.5
52.5°	1976.6	1931.5	1707.6	692.4	223.6	86.9	56.4	64.4	44.8	33.3	28.1
55°	2112.6	2076.0	1848.6	744.4	209.6	73.9	48.8	57.2	42.4	29.9	25.7
57.5°	2199.7	2168.6	1954.2	766.9	188.1	60.4	43.0	48.0	38.7	26.7	22.9
59°	2209.9	2181.8	1976.2	759.5	174.1	55.2	40.2	41.2	37.7	24.9	21.3
60°	2201.3	2172.2	1967.4	745.0	161.0	51.6	37.7	36.5	37.9	23.9	20.1
62.5°	2145.9	2096.1	1881.7	671.7	140.7	47.4	33.5	29.9	33.5	21.5	17.9
65°	2038.9	1964.2	1712.0	568.5	132.7	45.0	28.5	25.1	25.5	18.9	15.5
67.5°	1852.0	1757.8	1486.2	461.9	129.3	45.2	24.1	22.5	19.7	16.1	13.7
70°	1556.5	1462.5	1192.5	380.0	127.7	45.2	20.5	19.3	16.5	13.5	11.8
72.5°	1103.0	1001.8	804.4	298.5	115.0	45.0	17.5	17.5	13.5	11.2	9.6
75°	623.1	624.0	505.7	211.2	95.6	37.1	14.1	13.9	9.8	8.6	7.2
77.5°	363.2	356.7	340.9	90.7	44.4	16.9	9.8	8.4	6.8	6.2	5.2
80°	186.7	153.6	149.6	32.9	15.9	10.6	6.8	4.8	4.4	4.0	3.6
82.5°	55.2	55.4	49.4	13.2	8.8	7.0	3.4	2.6	2.4	2.2	2.2
85°	3.8	2.4	2.8	4.0	5.4	2.8	0.2	0.6	0.6	0.8	1.0
87.5°	0.4	0.2	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	872.9	872.9	872.9	872.9	872.9	872.9	872.9	872.9	872.9	872.9	872.9
2.5°	722.5	731.4	714.9	715.3	701.6	706.1	690.0	695.2	685.8	693.0	714.3
5°	543.6	545.7	532.4	528.2	530.2	538.4	541.6	527.0	533.2	521.0	520.2
7.5°	383.0	385.5	377.8	376.8	391.3	387.9	394.1	379.0	364.8	371.0	359.6
10°	297.5	287.5	271.8	267.4	264.6	266.4	266.4	252.8	250.7	245.3	253.6
12.5°	234.9	222.6	207.8	187.7	182.7	182.3	174.9	162.8	159.0	154.4	161.2
15°	170.6	165.6	153.2	141.9	130.5	128.3	116.2	106.4	93.4	91.5	90.9
17.5°	120.1	112.6	112.4	106.0	99.4	95.0	83.7	72.5	67.5	66.9	66.9
20°	89.9	87.3	83.1	82.3	80.3	75.3	65.2	59.2	56.8	57.0	57.8
22.5°	75.7	73.9	70.1	68.3	67.5	63.0	55.6	51.6	50.4	50.4	50.6
25°	67.7	66.0	61.8	59.0	58.0	54.8	49.0	46.0	45.0	45.0	45.0
27.5°	61.6	59.6	55.2	52.8	51.0	47.4	43.8	40.8	39.7	39.7	40.0
30°	57.4	55.2	51.2	48.0	45.2	42.0	38.9	36.3	35.1	34.9	35.1
32.5°	51.8	49.8	45.8	43.8	40.6	36.7	34.3	31.9	30.7	30.9	30.7
35°	40.4	39.7	36.9	37.5	35.7	32.5	30.3	27.7	26.3	26.1	26.5
37.5°	36.7	34.3	31.1	31.3	30.7	29.5	25.9	23.1	22.1	22.1	22.3
40°	33.9	31.5	27.9	26.1	26.3	26.3	22.5	19.5	18.5	18.3	18.7
42.5°	31.5	29.1	25.1	22.1	21.3	22.3	19.1	16.1	15.1	14.7	15.1
45°	29.9	27.3	22.7	19.3	16.9	18.1	15.7	13.2	12.0	12.0	11.8
47.5°	28.3	25.9	20.9	16.7	14.1	13.5	12.8	10.6	9.4	9.2	9.4
50°	26.9	24.5	18.9	14.5	11.8	10.4	10.4	8.4	7.6	7.2	7.4
52.5°	25.5	22.9	17.1	12.8	10.2	8.4	7.4	6.8	6.2	6.0	6.2
55°	23.5	20.9	15.3	11.0	8.8	7.0	5.8	5.6	5.2	4.8	5.2
57.5°	21.1	18.7	13.5	9.4	7.0	5.4	4.8	4.6	4.2	4.0	4.0
59°	19.7	17.5	12.4	8.2	6.2	4.8	4.4	4.2	3.8	3.4	3.6
60°	18.9	17.1	11.8	7.6	5.6	4.4	4.0	3.8	3.4	3.2	3.4
62.5°	16.7	15.3	10.4	6.2	4.4	3.2	2.8	3.0	2.8	2.6	2.8
65°	14.7	13.5	8.8	4.8	3.4	2.2	2.0	2.6	2.4	2.2	2.4
67.5°	13.0	11.6	7.4	3.6	2.4	1.2	1.4	2.2	2.2	2.0	2.2
70°	11.2	10.0	6.0	2.6	1.2	0.6	1.0	1.6	2.0	1.8	2.0
72.5°	9.2	7.8	4.6	1.8	0.6	0.0	0.6	1.4	2.0	1.8	2.0
75°	7.2	5.8	3.4	1.0	0.0	0.0	0.2	1.2	2.0	1.8	2.0
77.5°	5.2	4.2	2.0	0.2	0.0	0.0	0.2	1.2	2.0	1.8	2.0
80°	3.4	3.0	0.8	0.0	0.0	0.0	0.2	1.2	2.0	2.0	2.2
82.5°	2.2	1.6	0.0	0.0	0.0	0.0	0.4	1.6	2.2	2.4	2.4
85°	1.0	0.0	0.0	0.0	0.0	0.0	0.8	2.0	2.6	2.6	2.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.4	1.4	2.4	3.0	3.0	3.0
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°	872.9	872.9	872.9	872.9	872.9	872.9	872.9	872.9	872.9	872.9	872.9
2.5°	717.9	730.6	748.4	775.9	798.2	833.3	860.2	897.0	934.1	945.4	962.8
5°	528.4	544.7	585.2	622.1	645.4	719.7	766.7	840.8	907.2	939.1	973.9
7.5°	367.0	386.3	417.2	468.8	517.8	578.2	654.1	738.8	836.1	881.7	930.7
10°	257.6	281.7	325.2	367.6	429.2	486.6	561.5	655.1	762.5	816.3	877.7
12.5°	162.6	184.1	241.7	289.3	366.2	432.8	501.9	586.6	711.1	766.3	830.7
15°	93.0	111.0	137.9	198.9	284.3	372.4	458.5	556.9	684.8	752.8	822.5
17.5°	69.3	74.1	86.1	120.7	198.3	301.3	418.6	547.9	702.6	782.5	862.0
20°	58.2	61.4	67.1	80.7	126.5	232.1	379.6	549.5	760.5	860.8	936.3
22.5°	52.2	54.2	58.8	67.7	86.3	169.0	334.1	558.9	830.5	957.0	1044.1
25°	45.8	48.4	52.4	60.0	71.9	117.2	289.1	580.0	928.7	1079.1	1161.0
27.5°	40.8	43.2	47.2	54.2	63.0	89.5	236.7	598.1	1032.3	1201.9	1269.0
30°	35.7	38.1	42.2	47.8	55.8	72.5	180.3	608.7	1132.9	1294.1	1345.7
32.5°	31.5	33.5	37.3	42.4	49.0	61.4	142.1	597.7	1209.8	1377.8	1412.3
35°	27.3	29.7	32.9	37.5	43.4	52.4	118.2	559.5	1275.8	1463.9	1476.4
37.5°	22.9	25.7	29.1	33.3	37.9	48.2	95.0	517.3	1346.5	1571.3	1550.8
40°	19.3	21.9	25.1	29.7	33.9	44.2	73.1	472.4	1422.8	1672.1	1632.1
42.5°	15.7	18.5	22.3	26.5	33.5	38.5	56.6	425.8	1491.2	1759.8	1705.6
45°	12.4	14.9	18.9	24.3	33.3	33.1	43.8	379.8	1542.8	1822.5	1760.4
47.5°	9.8	11.8	15.9	23.7	30.7	28.1	35.1	351.3	1597.0	1878.9	1802.4
50°	7.8	9.8	13.7	24.7	26.9	24.1	29.5	355.9	1649.4	1907.6	1819.7
52.5°	6.6	8.6	11.8	19.5	20.7	21.1	25.9	377.2	1717.1	1938.3	1854.0
55°	5.8	7.6	10.0	13.7	16.1	18.9	23.7	392.7	1807.6	2004.1	1929.7
57.5°	4.6	6.6	9.0	11.6	13.2	16.5	21.9	393.9	1889.5	2088.7	2030.2
59°	4.2	6.0	8.4	11.0	11.8	14.9	20.7	383.6	1892.5	2101.3	2076.4
60°	3.8	5.8	8.0	10.2	11.2	14.1	19.7	371.8	1865.2	2081.2	2095.5
62.5°	3.2	5.0	7.0	8.2	9.6	11.6	17.1	328.8	1732.9	1990.3	2060.2
65°	2.8	4.4	6.0	6.8	8.0	10.0	15.1	263.2	1586.8	1867.0	1959.0
67.5°	2.6	4.0	5.2	5.8	7.0	9.2	13.5	185.9	1397.5	1710.6	1807.0
70°	2.4	3.8	4.6	5.4	6.2	7.8	11.4	108.4	1076.5	1436.4	1538.2
72.5°	2.4	3.6	4.0	4.6	5.4	7.0	10.6	58.6	736.0	1095.7	1227.2
75°	2.4	3.4	3.6	4.0	4.8	6.4	9.4	30.7	475.8	761.3	939.5
77.5°	2.4	3.2	3.6	3.8	4.6	5.6	8.2	19.3	317.0	533.2	635.0
80°	2.6	3.2	3.4	3.8	4.4	5.2	6.8	12.8	186.3	320.8	386.5
82.5°	2.8	3.2	3.6	4.0	4.6	5.0	6.0	8.0	85.9	212.2	240.1
85°	3.0	3.4	3.8	4.2	4.8	5.0	5.6	5.8	14.1	95.8	129.5
87.5°	3.2	3.6	4.0	4.4	5.2	5.2	5.2	5.2	4.8	10.2	26.1
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°	872.9	872.9	872.9	872.9	872.9	872.9	872.9	872.9	872.9	872.9
2.5°	984.9	1007.6	1023.5	1027.5	1016.0	1010.8	996.4	973.9	960.2	959.6
5°	1037.9	1091.1	1128.0	1134.3	1112.2	1074.8	1030.5	973.3	939.7	929.7
7.5°	1028.9	1122.0	1181.5	1190.1	1152.9	1081.7	995.8	903.6	867.1	851.6
10°	991.7	1105.4	1190.3	1203.9	1154.3	1054.0	944.8	842.0	796.6	784.8
12.5°	960.0	1074.8	1150.3	1169.2	1131.7	1031.5	914.2	802.4	753.8	742.8
15°	946.2	1038.7	1084.9	1094.5	1088.3	1017.4	911.0	796.4	740.8	728.7
17.5°	960.0	1008.0	1013.8	1023.7	1037.5	1016.0	941.9	829.1	769.1	754.2
20°	996.4	981.3	957.2	961.4	993.1	1021.8	997.0	901.6	828.5	812.7
22.5°	1058.2	974.7	920.1	916.5	956.6	1041.3	1077.7	999.8	915.0	899.4
25°	1134.1	991.3	906.4	898.6	942.3	1069.8	1165.4	1120.0	1027.5	1003.6
27.5°	1216.8	1025.9	906.4	898.8	941.1	1095.1	1240.5	1226.4	1143.9	1117.8
30°	1262.2	1054.4	919.5	910.8	956.0	1109.8	1280.6	1321.0	1231.4	1199.1
32.5°	1302.7	1093.9	945.0	928.7	987.1	1131.5	1316.6	1401.3	1301.1	1279.4
35°	1340.0	1136.3	980.1	961.2	1028.1	1161.2	1356.3	1485.6	1398.1	1365.3
37.5°	1381.2	1185.5	1034.9	1018.8	1096.5	1219.0	1403.5	1596.4	1493.4	1452.3
40°	1426.0	1242.5	1125.0	1118.2	1205.3	1284.4	1463.1	1714.7	1602.2	1555.5
42.5°	1471.5	1308.1	1235.5	1246.7	1328.6	1376.2	1524.3	1805.6	1691.4	1639.8
45°	1512.9	1392.0	1379.0	1434.6	1472.3	1465.7	1569.7	1869.6	1769.1	1719.7
47.5°	1565.1	1514.3	1552.6	1638.4	1639.4	1563.1	1604.0	1922.0	1835.9	1786.5
50°	1623.5	1658.6	1776.9	1864.2	1840.7	1658.8	1644.2	1984.1	1905.0	1865.4
52.5°	1691.2	1820.3	1984.1	2081.0	2026.2	1763.2	1711.0	2051.1	2014.6	1976.6
55°	1769.9	1930.5	2190.7	2267.9	2212.7	1892.9	1812.6	2142.1	2138.5	2112.6
57.5°	1858.8	2046.9	2310.3	2414.9	2365.7	2045.1	1954.6	2227.8	2214.1	2199.7
59°	1929.1	2106.7	2363.1	2471.5	2441.8	2151.7	2049.9	2281.2	2231.6	2209.9
60°	1971.6	2147.3	2382.6	2479.1	2472.3	2215.1	2110.3	2307.3	2231.4	2201.3
62.5°	2097.9	2218.2	2375.1	2445.2	2471.9	2336.8	2287.6	2336.0	2190.1	2145.9
65°	2142.9	2194.7	2252.1	2243.5	2266.3	2330.6	2400.8	2304.5	2101.7	2038.9
67.5°	2055.3	1937.1	1957.4	1899.8	1888.5	2072.0	2354.9	2150.3	1928.9	1852.0
70°	1732.5	1484.0	1473.8	1500.3	1427.6	1677.5	2114.6	1853.4	1643.6	1556.5
72.5°	1363.7	1048.8	962.4	1060.0	1057.8	1279.8	1756.6	1315.2	1110.4	1103.0
75°	1072.4	730.2	640.8	656.7	687.2	926.5	1399.1	835.1	683.8	623.1
77.5°	719.9	517.3	482.6	463.1	496.1	594.8	885.1	452.9	383.4	363.2
80°	415.0	375.8	426.8	387.5	405.1	374.8	440.3	207.8	172.4	186.7
82.5°	270.0	214.0	228.1	169.4	231.7	233.7	141.3	61.4	52.0	55.2
85°	168.8	100.4	56.4	40.2	79.9	147.0	44.2	3.8	4.4	3.8
87.5°	43.8	16.7	7.0	10.4	12.8	11.4	10.2	0.6	0.2	0.4
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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