

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: P450379

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450379
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT 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 IV - Short
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



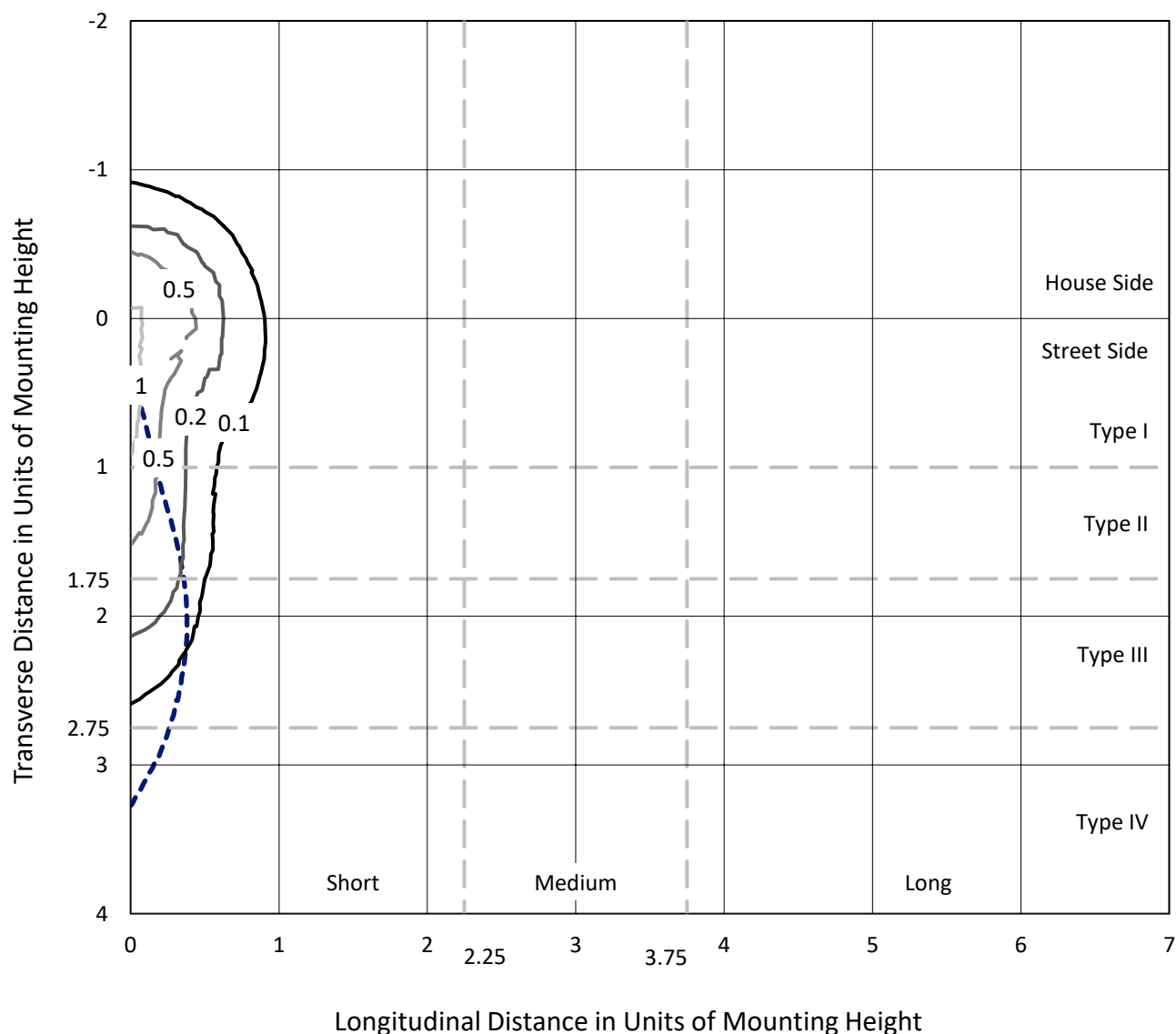
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



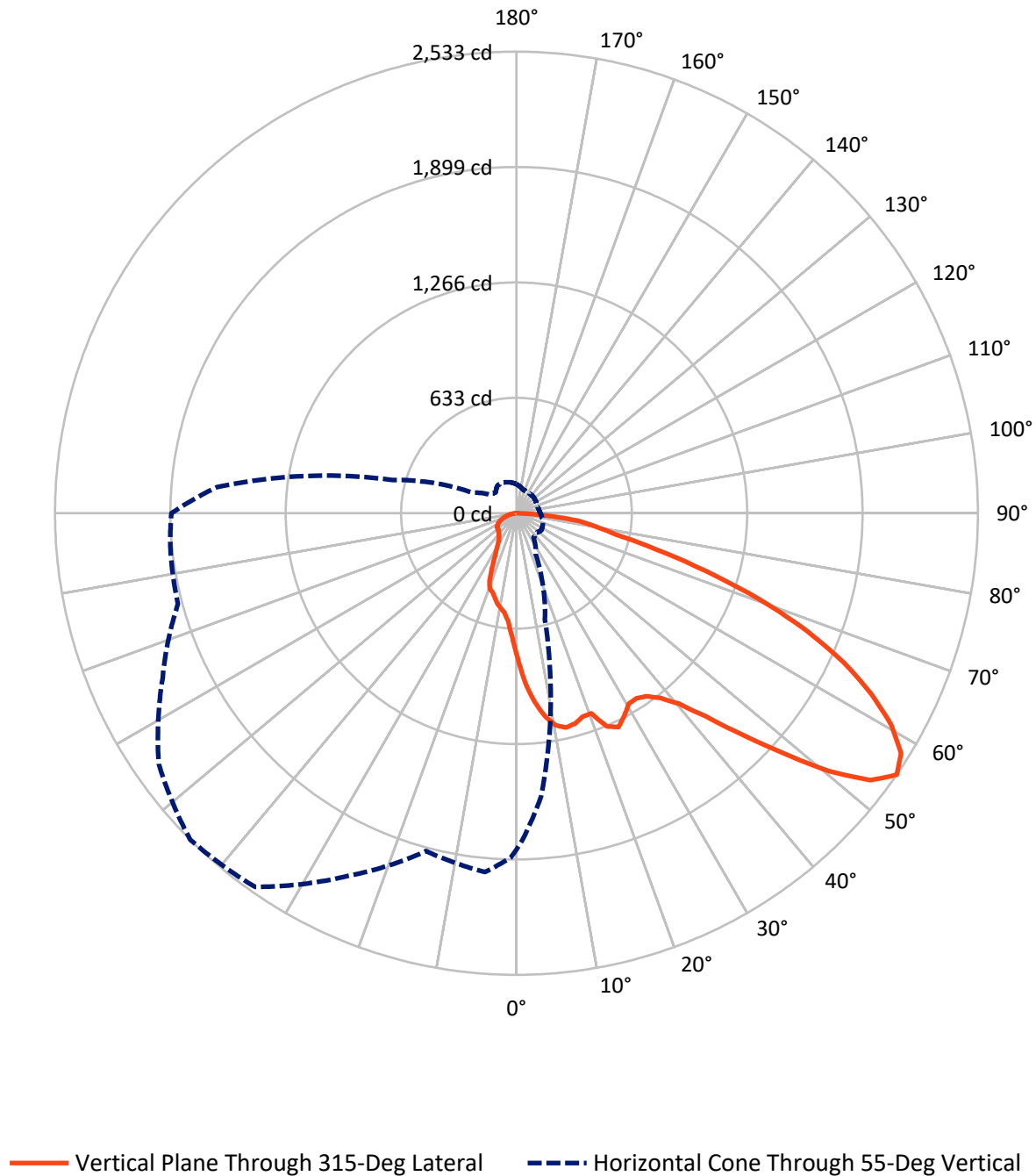
Based on 25 foot mounting height. Maximum calculated value = 1.4 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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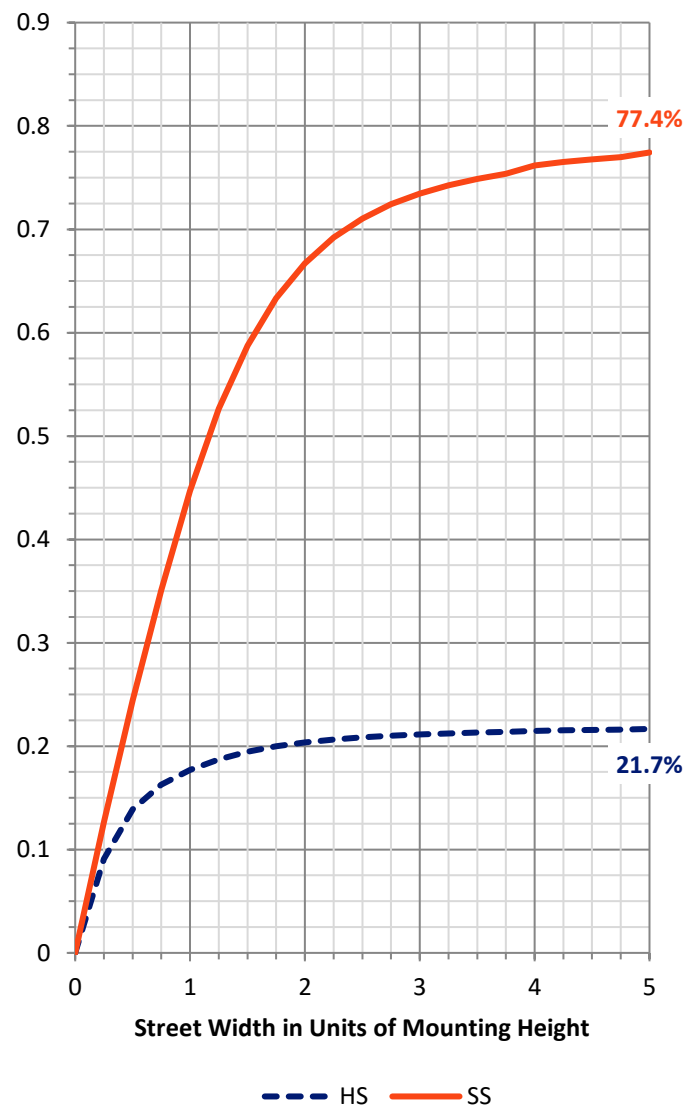
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	693.4	0.0	693.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	2476.6	0.0	2476.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	3170.0	0.0	3170.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.4	2.1
10°-20°	178.9	5.6
20°-30°	309.0	9.7
30°-40°	359.1	11.3
40°-50°	501.1	15.8
50°-60°	679.9	21.4
60°-70°	646.8	20.4
70°-80°	349.4	11.0
80°-90°	78.3	2.5
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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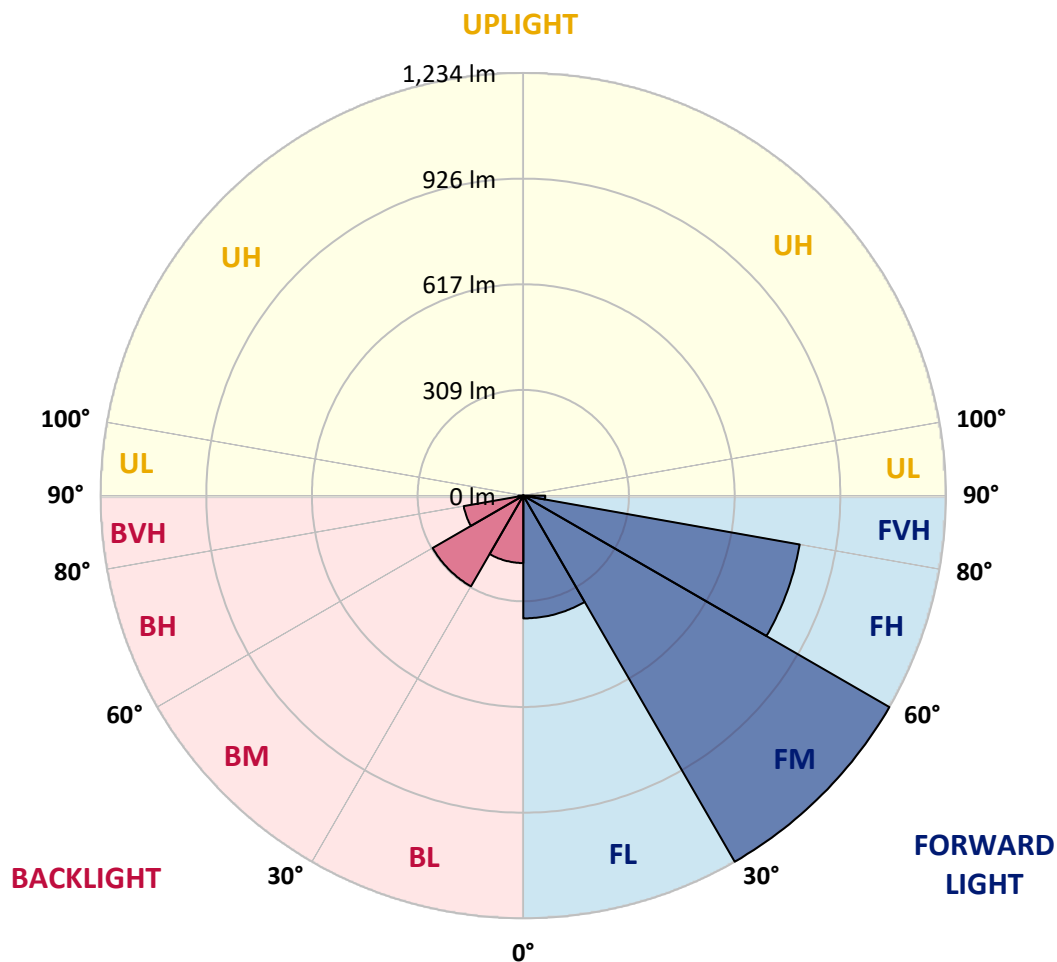
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	358.5	11.3			
FM	(30°-60°)	1234.3	38.9			
FH	(60°-80°)	819.7	25.9			G1/1800
FVH	(80°-90°)	64.0	2.0			G1/100
BL	(0°-30°)	196.8	6.2	B1/500		
BM	(30°-60°)	305.8	9.6	B1/1000		
BH	(60°-80°)	176.6	5.6	B1/500		G1/500
BVH	(80°-90°)	14.3	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	795.5	795.5	795.5	795.5	795.5	795.5	795.5	795.5	795.5	795.5	795.5
2.5°	883.8	880.5	871.0	846.4	821.5	796.2	776.7	752.5	727.2	713.6	696.2
5°	895.9	892.2	870.0	814.4	764.0	711.1	668.8	631.8	616.7	594.6	576.8
7.5°	867.5	865.8	832.6	752.7	683.7	614.4	566.5	536.8	509.9	499.8	501.9
10°	841.6	834.9	793.2	688.9	608.4	552.1	517.8	488.7	469.7	464.7	465.7
12.5°	820.0	811.0	761.9	646.0	575.5	530.6	486.9	456.5	439.2	444.0	460.3
15°	815.6	803.5	748.7	631.4	557.6	499.6	451.7	416.8	403.8	414.3	440.4
17.5°	844.1	828.8	771.3	636.2	540.4	468.0	409.3	369.3	358.5	375.2	409.3
20°	935.5	912.9	841.8	664.0	538.7	452.4	384.6	344.4	349.0	380.8	416.4
22.5°	1104.4	1070.6	965.2	704.6	547.5	448.4	379.6	358.7	384.0	410.9	434.4
25°	1137.9	1111.3	987.3	713.8	545.6	445.7	393.8	404.3	432.5	445.9	437.7
27.5°	1156.7	1126.4	985.9	668.2	487.9	404.3	376.4	393.8	400.9	387.9	365.8
30°	1200.6	1169.1	1010.7	620.3	401.7	299.9	262.9	255.8	260.6	263.1	255.1
32.5°	1261.1	1229.9	1057.6	588.9	347.4	248.0	211.6	201.6	199.3	196.6	193.4
35°	1339.3	1291.4	1103.6	568.8	325.0	229.4	196.0	188.2	185.1	181.3	178.0
37.5°	1418.8	1368.6	1161.7	547.7	310.1	216.5	185.5	181.9	176.5	172.5	167.7
40°	1503.3	1447.0	1214.7	529.3	295.7	208.1	178.0	177.6	170.4	165.8	160.2
42.5°	1576.5	1518.5	1261.9	518.0	284.6	199.3	173.4	174.6	167.3	160.4	153.1
45°	1634.6	1577.7	1305.6	518.0	275.6	190.5	172.5	171.7	164.4	155.8	147.4
47.5°	1685.6	1626.9	1348.3	531.2	270.0	183.2	167.9	169.4	161.9	151.0	142.8
50°	1725.1	1673.3	1405.8	551.7	264.3	177.3	162.1	170.0	159.8	148.5	139.1
52.5°	1775.5	1729.1	1475.0	579.7	259.5	170.9	156.9	170.0	159.6	148.7	138.4
55°	1845.4	1796.5	1558.5	602.9	251.8	164.8	152.2	165.2	158.9	147.6	136.8
57.5°	1894.3	1857.7	1617.4	618.4	240.7	157.1	148.1	160.6	156.2	143.7	131.8
58°	1896.6	1860.9	1626.0	622.0	238.0	155.6	147.0	158.5	155.0	142.0	130.1
60°	1870.3	1839.5	1627.7	616.9	222.5	148.3	141.6	149.9	148.3	132.2	121.1
62.5°	1774.5	1741.7	1560.1	576.2	202.0	139.3	133.2	138.4	134.7	118.4	108.1
65°	1638.4	1577.9	1421.3	512.2	187.4	129.7	121.9	122.3	118.4	106.7	97.7
67.5°	1457.0	1389.5	1203.4	431.7	176.3	119.0	108.5	107.5	102.7	95.2	87.8
70°	1233.9	1187.7	977.9	351.1	164.0	107.3	93.5	92.9	89.9	84.3	77.8
72.5°	1000.1	941.3	789.7	281.1	148.9	96.0	79.5	80.7	77.0	73.0	67.1
75°	738.0	699.6	610.5	225.4	128.6	83.7	66.3	66.7	65.0	60.9	56.3
77.5°	486.0	474.5	436.7	148.1	98.9	66.5	54.2	54.6	53.3	49.6	44.8
80°	327.1	319.3	295.9	95.4	66.1	48.1	41.8	42.2	42.0	38.1	31.6
82.5°	201.6	198.3	190.7	64.4	45.8	34.5	27.6	28.9	31.2	26.8	21.5
85°	95.2	95.4	115.2	35.1	27.0	22.2	15.1	16.1	16.1	16.1	12.1
87.5°	12.3	13.0	15.9	14.8	9.8	8.4	5.4	4.6	4.0	5.2	3.8
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°	795.5	795.5	795.5	795.5	795.5	795.5	795.5	795.5	795.5	795.5	795.5
2.5°	690.1	686.0	677.0	674.9	673.6	677.2	667.8	670.3	666.1	677.8	675.9
5°	577.8	578.3	585.6	590.4	592.1	590.4	584.1	573.2	564.9	561.5	562.4
7.5°	497.9	505.3	517.8	531.8	544.6	548.3	544.8	524.1	501.5	487.3	482.7
10°	471.4	481.2	495.6	506.7	518.0	527.0	528.9	512.8	486.0	452.4	439.2
12.5°	472.9	486.2	500.0	503.6	502.5	506.1	504.4	501.7	484.1	441.3	419.3
15°	459.0	474.9	484.6	482.7	479.3	476.2	471.8	464.9	458.6	428.5	404.3
17.5°	427.3	443.6	451.5	452.1	452.1	451.3	440.6	438.1	437.3	422.7	407.8
20°	433.1	442.1	438.6	432.7	434.4	440.0	433.7	432.5	437.3	443.8	441.1
22.5°	436.5	433.3	406.6	380.6	374.8	392.3	395.9	409.9	429.4	452.8	468.0
25°	415.8	390.5	342.6	313.3	296.8	313.1	334.4	360.3	389.4	419.5	437.3
27.5°	347.6	328.3	294.0	267.7	253.3	255.8	274.0	297.6	324.6	344.9	357.8
30°	261.8	253.3	235.5	226.5	217.7	215.6	223.4	232.3	244.3	246.8	250.1
32.5°	192.8	191.6	192.6	189.7	188.0	187.8	185.5	187.6	188.8	190.3	187.4
35°	174.4	172.7	169.8	169.0	167.9	168.4	167.3	166.3	167.1	168.4	169.2
37.5°	165.0	162.5	158.3	156.9	156.9	157.5	155.8	155.4	156.9	160.8	162.9
40°	157.7	154.8	149.9	148.1	149.3	151.0	148.7	147.9	151.4	155.6	158.9
42.5°	150.8	148.5	143.9	141.8	142.8	146.0	142.6	142.0	146.6	151.2	155.2
45°	144.9	142.6	138.4	137.4	137.8	140.7	138.4	138.4	142.8	147.9	151.4
47.5°	140.3	137.4	134.7	133.8	134.3	135.9	135.5	135.5	139.7	144.9	148.5
50°	135.7	133.2	129.7	130.1	131.1	133.4	133.2	133.8	138.0	144.5	148.3
52.5°	133.6	129.9	125.9	126.3	129.5	132.2	131.3	132.0	136.8	148.9	154.3
55°	131.3	126.3	121.7	122.3	125.9	129.9	128.8	129.7	135.3	151.8	159.4
57.5°	126.9	121.1	116.1	116.5	121.7	125.9	124.2	125.3	132.0	148.7	156.6
58°	125.1	120.0	115.2	115.4	120.5	125.1	123.2	124.0	130.9	147.9	155.4
60°	117.1	114.2	110.0	110.2	115.0	119.0	118.0	118.8	125.5	141.8	147.4
62.5°	106.2	104.6	103.5	103.5	106.4	110.2	111.3	112.3	118.4	128.2	133.2
65°	94.5	94.5	94.7	94.7	96.6	101.4	102.1	104.8	110.4	115.2	119.0
67.5°	86.6	86.2	86.6	85.5	86.4	89.3	92.4	94.9	100.8	104.1	105.4
70°	76.3	76.1	76.3	74.9	75.9	78.4	80.5	84.7	90.8	93.3	93.9
72.5°	66.3	66.3	66.7	65.7	65.7	68.4	69.9	74.5	80.1	81.6	81.8
75°	55.8	56.5	56.5	55.0	55.4	57.1	59.0	62.7	68.0	69.0	69.0
77.5°	44.3	46.6	46.6	45.2	45.8	46.0	48.5	50.4	54.4	54.8	53.1
80°	32.2	34.5	36.4	35.1	36.2	34.9	36.4	37.6	41.6	39.7	37.0
82.5°	23.0	24.7	26.1	26.4	25.3	23.0	24.9	25.1	27.0	24.5	23.0
85°	12.8	14.2	16.1	15.3	13.6	12.1	12.8	13.2	13.0	12.3	11.5
87.5°	3.3	3.6	4.0	2.9	2.7	2.3	3.1	3.1	3.6	3.8	3.6
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°	795.5	795.5	795.5	795.5	795.5	795.5	795.5	795.5	795.5	795.5	795.5
2.5°	677.4	686.6	706.5	721.5	739.9	762.3	788.6	815.2	843.9	852.8	865.4
5°	560.5	583.5	593.1	620.5	647.7	688.5	732.0	782.4	837.6	864.1	889.7
7.5°	478.9	491.3	501.3	521.4	554.0	603.6	658.1	721.1	799.3	838.0	875.4
10°	435.0	436.3	448.6	473.5	501.9	545.6	597.3	667.8	755.0	802.0	845.9
12.5°	405.9	400.5	413.9	439.8	472.0	512.4	559.9	627.0	723.0	771.3	824.4
15°	380.4	371.8	381.9	408.4	440.2	487.7	538.7	609.8	710.4	766.7	825.7
17.5°	381.0	357.4	361.0	383.3	414.9	463.2	525.1	609.2	729.5	794.3	864.1
20°	428.1	390.2	374.1	378.3	408.9	461.6	531.4	638.5	792.0	886.5	961.2
22.5°	474.3	451.5	425.6	417.0	433.7	489.0	571.4	707.7	927.9	1070.3	1205.2
25°	458.2	477.7	471.2	459.0	462.8	508.6	598.5	764.6	1033.5	1193.9	1320.7
27.5°	366.6	402.0	409.1	408.9	410.3	448.0	538.3	726.3	1046.7	1217.6	1338.7
30°	257.7	260.8	264.6	271.9	278.6	312.2	421.2	637.6	1040.9	1228.2	1349.5
32.5°	185.9	190.1	195.3	205.4	221.3	264.1	368.5	609.4	1071.8	1272.4	1381.3
35°	170.0	174.8	179.9	191.4	206.4	246.2	347.6	597.7	1122.6	1343.9	1438.4
37.5°	165.0	170.4	174.8	183.2	195.3	233.2	328.5	589.8	1174.7	1419.6	1515.0
40°	161.5	167.7	171.3	178.0	186.3	221.3	311.6	583.5	1225.1	1488.8	1576.5
42.5°	158.3	164.8	169.4	174.2	181.1	210.6	296.6	577.2	1268.8	1556.0	1637.7
45°	154.6	162.7	168.6	172.3	178.4	201.6	285.0	572.2	1318.6	1615.6	1699.6
47.5°	151.4	160.4	167.7	172.1	174.4	195.3	275.8	579.1	1378.4	1677.9	1757.1
50°	151.6	160.2	169.4	176.3	170.2	190.1	270.2	606.5	1456.2	1751.9	1802.5
52.5°	158.3	168.8	176.1	177.8	164.4	183.8	267.3	654.4	1548.2	1817.4	1848.3
55°	165.8	176.7	184.7	183.6	161.2	175.9	266.6	705.4	1649.0	1893.7	1907.9
57.5°	163.1	179.0	191.1	185.7	161.5	168.1	263.9	746.6	1733.3	1950.8	1966.9
58°	162.3	178.2	192.0	185.3	160.8	165.8	263.3	750.2	1745.0	1954.8	1975.3
60°	154.1	170.9	191.4	182.2	157.3	159.6	256.4	761.7	1741.9	1934.3	1980.3
62.5°	139.3	153.1	176.9	166.9	146.4	151.2	240.9	747.4	1657.0	1835.6	1906.9
65°	122.6	132.8	148.7	146.8	130.9	142.6	219.8	691.2	1486.9	1675.4	1750.5
67.5°	110.0	118.4	128.4	125.7	117.7	131.1	197.0	596.0	1296.2	1483.0	1577.5
70°	97.2	103.7	108.7	106.9	104.4	119.8	176.7	483.7	1113.4	1300.2	1391.8
72.5°	84.3	90.3	94.5	91.8	90.3	107.9	160.2	375.4	879.4	1072.6	1190.4
75°	70.5	76.5	79.5	76.3	75.5	95.2	135.7	280.4	659.8	826.9	928.6
77.5°	54.6	61.1	64.8	63.8	64.2	78.2	109.6	192.0	471.8	563.6	670.7
80°	38.3	45.4	47.9	46.8	49.8	59.6	77.4	121.9	325.4	365.8	441.3
82.5°	23.6	30.3	30.7	31.8	33.9	44.1	58.3	74.2	204.3	211.2	266.0
85°	11.9	14.4	15.5	17.1	19.0	27.0	33.3	46.0	131.5	99.5	148.7
87.5°	4.0	4.2	5.0	6.3	7.7	11.1	14.2	18.8	32.6	18.0	46.0
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°	795.5	795.5	795.5	795.5	795.5	795.5	795.5	795.5	795.5	795.5
2.5°	890.7	908.5	921.4	933.4	921.9	920.8	909.5	891.3	883.8	883.8
5°	943.2	984.8	1018.5	1040.0	1030.8	1008.7	972.1	925.4	900.3	895.9
7.5°	957.6	1039.8	1102.3	1124.5	1109.0	1060.1	990.0	911.4	875.4	867.5
10°	948.8	1055.7	1147.5	1182.7	1161.1	1087.1	991.5	895.1	850.8	841.6
12.5°	939.6	1057.8	1155.9	1206.7	1192.7	1108.8	1002.2	884.4	833.2	820.0
15°	946.3	1058.6	1145.6	1198.1	1207.1	1135.0	1019.7	892.2	829.6	815.6
17.5°	988.6	1074.5	1131.0	1173.5	1205.0	1170.5	1069.7	929.2	861.4	844.1
20°	1076.8	1112.6	1139.4	1172.2	1223.0	1243.1	1172.0	1030.8	950.7	935.5
22.5°	1332.4	1325.9	1271.1	1270.5	1344.1	1424.6	1419.8	1237.4	1117.0	1104.4
25°	1428.2	1398.1	1318.8	1299.6	1332.0	1456.2	1438.2	1279.7	1168.4	1137.9
27.5°	1390.7	1316.1	1264.0	1259.6	1248.9	1366.3	1409.6	1296.8	1186.4	1156.7
30°	1388.4	1278.6	1204.2	1213.0	1223.2	1335.3	1425.5	1350.6	1232.4	1200.6
32.5°	1394.1	1283.9	1208.6	1210.3	1240.8	1339.9	1443.0	1409.1	1292.9	1261.1
35°	1416.9	1313.6	1236.6	1232.6	1280.3	1370.0	1472.9	1501.2	1375.5	1339.3
37.5°	1453.7	1372.8	1287.8	1286.8	1356.0	1424.4	1510.2	1594.0	1457.7	1418.8
40°	1507.9	1442.0	1379.0	1373.4	1458.9	1512.9	1558.5	1692.9	1553.2	1503.3
42.5°	1573.3	1525.0	1499.3	1521.7	1603.8	1612.2	1633.8	1784.3	1634.6	1576.5
45°	1634.0	1631.7	1667.4	1726.8	1774.7	1724.5	1712.4	1845.6	1697.8	1634.6
47.5°	1706.1	1768.4	1876.4	1963.4	2013.5	1855.2	1779.5	1885.6	1743.8	1685.6
50°	1779.3	1932.2	2104.5	2225.8	2236.5	1997.2	1825.7	1923.2	1785.6	1725.1
52.5°	1856.3	2062.9	2292.3	2433.3	2412.6	2120.8	1870.5	1948.7	1828.7	1775.5
55°	1923.2	2143.0	2397.3	2532.6	2502.3	2196.1	1918.8	1976.3	1890.2	1845.4
57.5°	1960.6	2149.7	2371.2	2489.3	2456.5	2181.5	1941.0	1996.8	1929.5	1894.3
58°	1966.1	2140.7	2347.9	2464.2	2430.8	2169.1	1940.8	1996.0	1932.0	1896.6
60°	1961.3	2082.3	2261.6	2365.1	2330.0	2091.8	1932.8	1980.3	1900.2	1870.3
62.5°	1916.7	1981.1	2112.5	2187.8	2177.7	1970.9	1900.2	1921.1	1803.4	1774.5
65°	1858.2	1843.1	1921.5	1974.9	1982.4	1880.3	1867.8	1793.1	1679.1	1638.4
67.5°	1787.1	1686.7	1686.5	1716.8	1729.3	1741.0	1800.2	1654.0	1500.1	1457.0
70°	1666.4	1445.5	1379.0	1414.8	1404.3	1503.3	1679.6	1458.7	1284.3	1233.9
72.5°	1445.1	1147.1	1040.7	1086.7	1060.3	1178.9	1469.6	1200.4	1062.0	1000.1
75°	1171.4	858.1	748.3	790.5	774.2	894.3	1222.8	871.9	761.7	738.0
77.5°	909.5	621.8	558.0	552.1	564.2	665.5	897.0	588.7	502.1	486.0
80°	584.3	445.0	448.8	441.3	447.5	419.5	544.6	375.6	340.1	327.1
82.5°	384.6	310.1	369.7	341.3	324.2	282.1	357.2	245.9	208.7	201.6
85°	262.0	228.4	207.9	158.9	187.2	217.3	267.9	132.4	105.0	95.2
87.5°	118.4	79.5	58.3	36.0	56.9	65.7	130.1	15.5	11.9	12.3
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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