

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: P651684

Luminaire Tested: **GALN-SA1A-840-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651684
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-840-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2898.9 lumens
Efficiency: N/A
Efficacy: 87.8 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

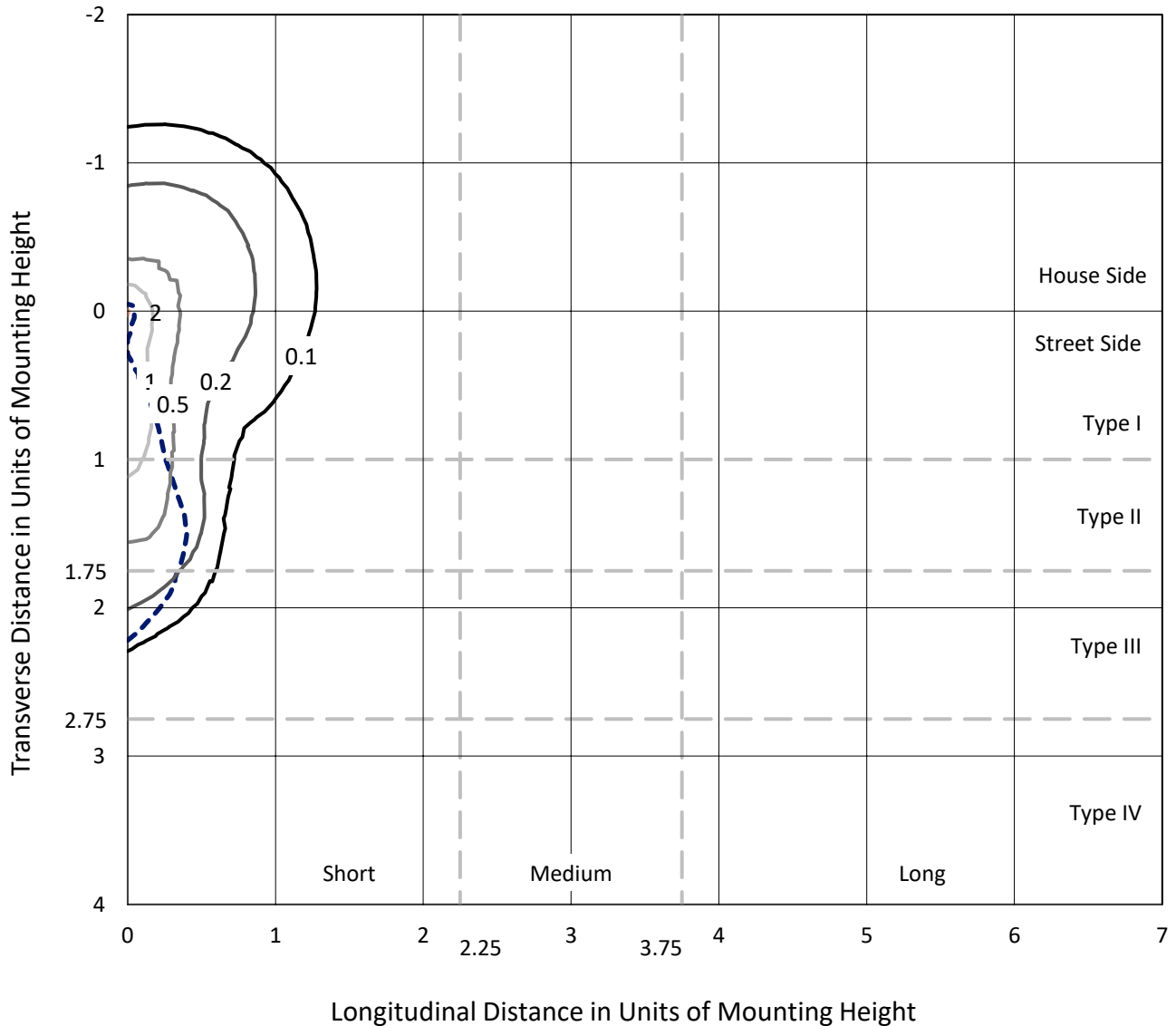
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

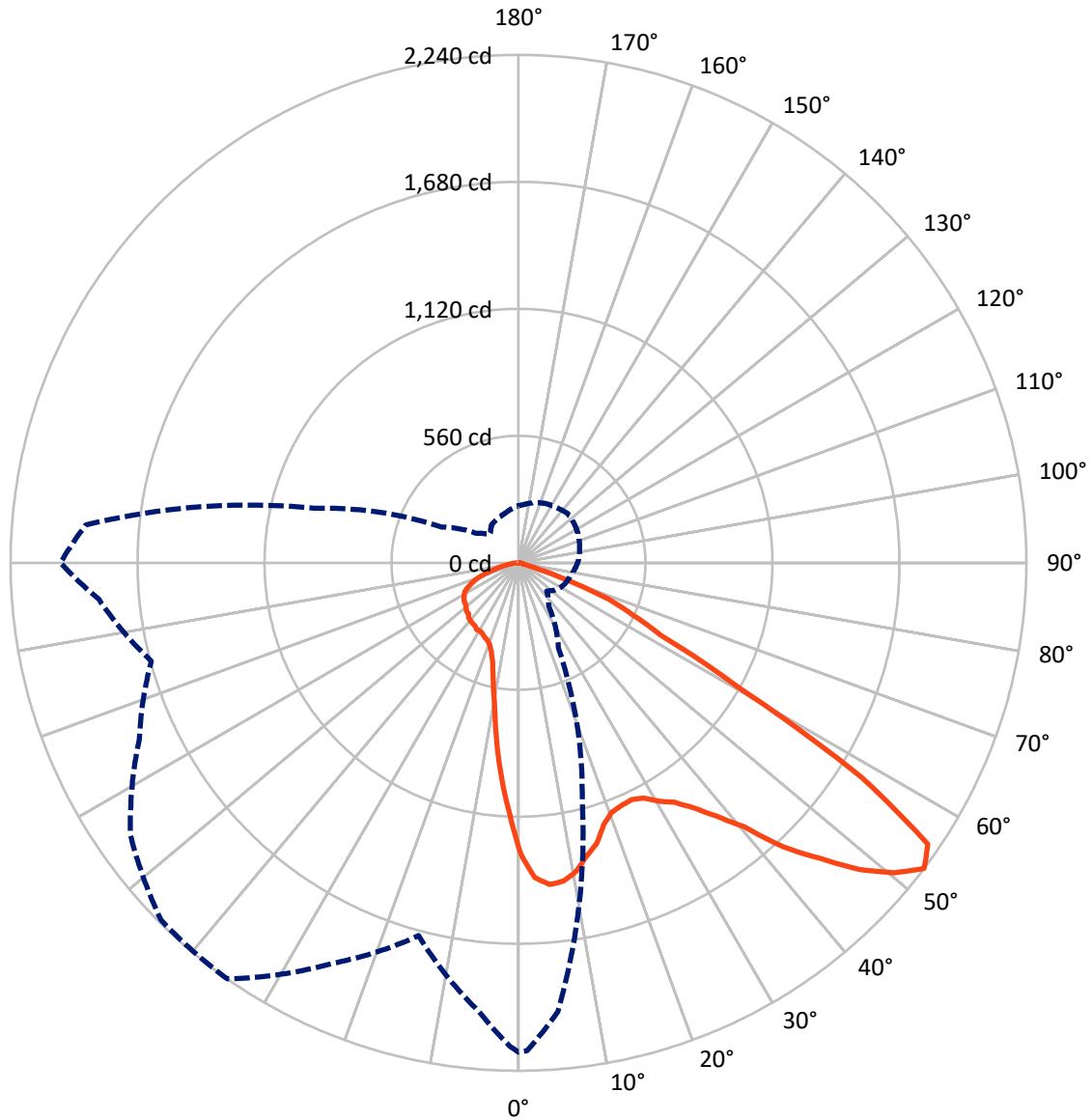
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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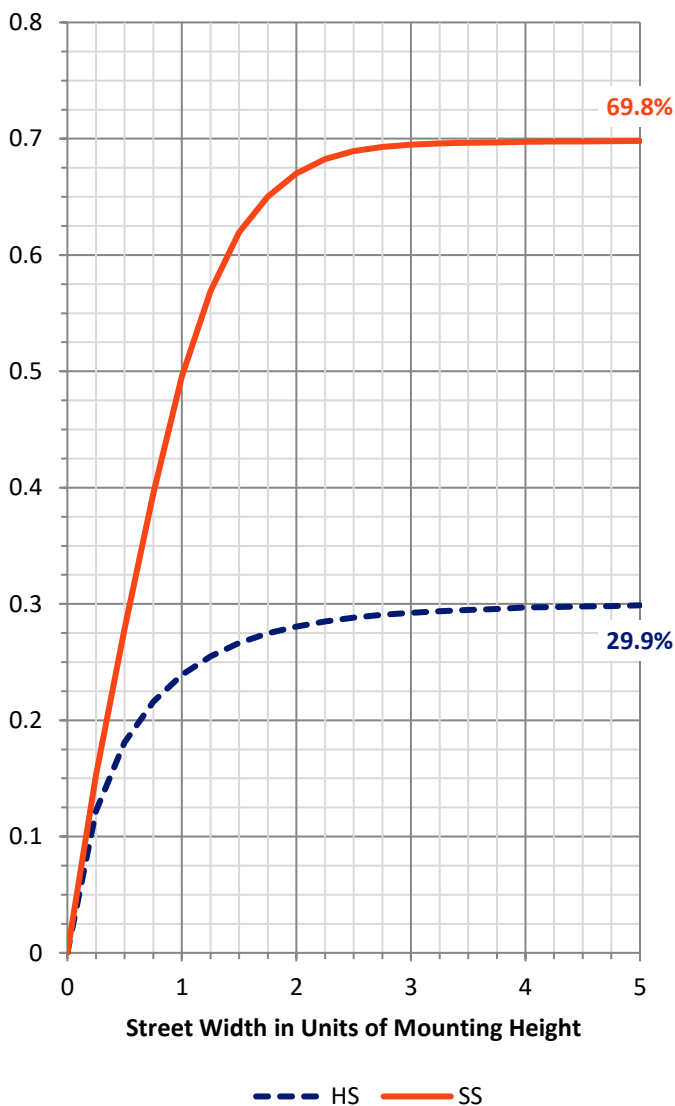
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	873.9	0.0	873.9
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	2025.0	0.0	2025.0
	% Fixture	69.9	0.0	69.9
Total	Lumens	2898.9	0.0	2898.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.2	3.4
10°-20°	212.8	7.3
20°-30°	321.5	11.1
30°-40°	464.6	16.0
40°-50°	618.3	21.3
50°-60°	691.5	23.9
60°-70°	389.8	13.4
70°-80°	86.9	3.0
80°-90°	15.5	0.5
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°	2898.9	100.0
0°-180°	2898.9	100.0

Coefficient of Utilization

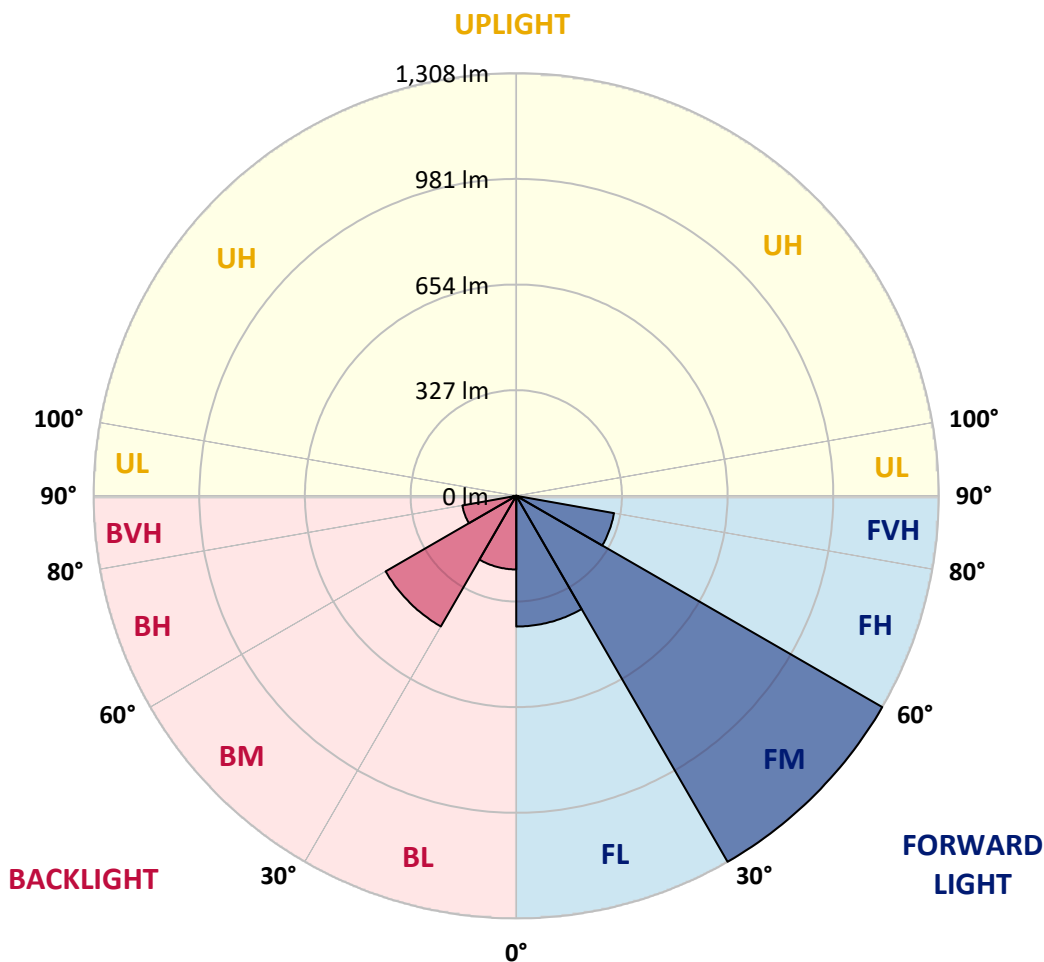


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	404.5	14.0			
FM (30°-60°)	1307.6	45.1			
FH (60°-80°)	307.2	10.6			G0/660
FVH (80°-90°)	5.6	0.2			G0/10
BL (0°-30°)	227.9	7.9	B1/500		
BM (30°-60°)	466.8	16.1	B1/1000		
BH (60°-80°)	169.4	5.8	B1/500		G1/500
BVH (80°-90°)	9.9	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1286.6	1286.6	1286.6	1286.6	1286.6	1286.6	1286.6	1286.6	1286.6	1286.6	1286.6
2.5°	1308.0	1329.0	1306.3	1266.0	1237.4	1211.4	1184.0	1178.6	1142.8	1136.5	1110.5
5°	1233.6	1229.0	1201.3	1148.3	1089.9	1037.0	997.9	960.1	934.4	904.7	902.6
7.5°	1143.3	1116.4	1100.4	1020.1	947.9	864.7	829.0	771.4	753.4	726.5	712.6
10°	1062.6	1042.8	1005.5	925.2	824.3	769.3	731.1	700.0	679.0	651.3	616.4
12.5°	1022.7	1014.8	972.7	848.3	773.6	714.7	687.9	657.6	621.8	577.3	560.1
15°	1029.8	1003.0	971.0	833.6	730.2	673.6	630.7	592.8	547.1	504.6	479.9
17.5°	1083.2	1062.6	998.8	842.9	713.8	631.9	554.2	498.3	457.2	418.9	401.7
20°	1188.2	1158.4	1086.6	854.6	678.6	574.0	484.8	416.0	371.9	351.7	345.8
22.5°	1304.6	1287.0	1172.3	881.1	650.4	520.2	411.3	342.5	326.1	320.6	331.5
25°	1446.3	1400.4	1305.5	924.3	628.6	474.4	349.2	310.9	302.5	308.0	320.6
27.5°	1553.8	1541.6	1398.8	965.1	598.7	419.3	314.3	289.1	291.6	297.0	308.8
30°	1681.5	1619.8	1489.1	993.3	571.9	381.5	289.9	283.2	285.7	294.9	300.8
32.5°	1758.4	1735.3	1545.8	1035.7	540.8	348.8	271.0	264.7	268.4	282.3	296.2
35°	1856.3	1810.5	1616.0	1046.6	518.9	335.7	257.6	253.0	261.8	271.4	286.9
37.5°	1970.6	1939.1	1713.0	1039.1	507.1	322.3	246.2	244.1	250.4	263.9	281.9
40°	2038.2	2028.6	1763.9	1043.7	488.6	310.5	233.2	235.7	248.8	259.3	276.9
42.5°	2103.3	2040.4	1839.1	1042.0	476.9	294.5	234.5	231.5	241.6	253.8	270.5
45°	2117.6	2055.1	1856.8	1030.2	462.6	279.0	224.8	226.1	238.3	253.4	264.3
47.5°	2108.4	2062.2	1889.5	1026.9	449.2	268.0	210.5	225.6	232.8	245.0	260.5
50°	2102.1	2099.6	1917.2	1042.8	431.1	250.9	193.3	220.2	227.3	239.5	256.3
52.5°	2157.6	2152.1	1986.5	1084.9	416.8	232.4	175.6	206.3	223.5	235.3	251.7
55°	2191.2	2167.3	2105.4	1136.5	392.8	208.0	163.4	189.1	214.3	224.8	241.6
57.5°	1971.1	1954.7	1904.6	1060.9	352.5	176.0	148.4	171.4	201.7	218.1	235.3
60°	1640.0	1614.3	1486.1	901.7	260.1	137.0	139.1	157.6	198.3	204.6	224.8
62.5°	1546.3	1482.8	1308.4	725.6	199.6	117.7	124.8	145.0	180.6	191.2	211.3
65°	1226.9	1179.8	936.1	523.9	133.6	102.1	113.9	130.7	155.9	176.4	194.9
67.5°	768.1	723.1	499.6	247.9	93.3	87.4	101.7	119.3	139.9	158.4	179.0
70°	401.2	352.1	230.7	89.5	64.3	71.4	84.9	101.7	121.9	137.0	153.0
72.5°	149.6	121.4	75.2	38.7	44.6	54.6	68.9	81.1	95.4	113.9	122.7
75°	23.1	19.8	19.3	23.5	30.3	39.5	49.2	61.3	73.9	85.7	91.6
77.5°	10.9	10.5	11.8	15.6	20.2	28.2	35.7	47.5	57.5	65.1	68.5
80°	7.1	6.7	7.6	10.5	15.1	21.0	28.6	36.6	45.8	52.1	51.3
82.5°	4.2	4.6	4.6	7.1	10.5	15.1	20.6	27.8	34.1	39.5	36.2
85°	2.5	2.1	2.1	4.2	7.1	12.2	17.2	11.8	12.2	12.2	13.9
87.5°	0.8	0.8	0.8	0.4	0.8	0.8	1.3	2.1	2.5	2.9	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°	1286.6	1286.6	1286.6	1286.6	1286.6	1286.6	1286.6	1286.6	1286.6	1286.6	1286.6
2.5°	1109.7	1122.7	1118.1	1101.7	1114.3	1116.4	1108.0	1136.9	1142.4	1133.6	1136.1
5°	899.6	903.0	910.6	926.4	937.8	951.3	951.3	952.1	940.7	969.3	960.9
7.5°	700.8	702.9	711.7	745.8	755.5	781.1	792.1	784.5	761.8	752.1	760.1
10°	605.0	592.8	589.9	594.1	615.9	626.9	636.1	633.6	629.8	622.3	613.8
12.5°	541.2	532.4	525.2	515.1	516.4	526.9	534.0	528.1	529.8	531.5	534.0
15°	471.9	465.6	461.8	446.7	445.0	452.1	454.6	458.0	464.3	464.7	461.8
17.5°	398.3	392.8	401.2	409.7	403.8	404.2	408.8	411.8	410.1	402.5	398.7
20°	347.9	353.8	362.2	370.2	376.4	380.2	381.9	377.3	371.9	356.3	355.9
22.5°	333.2	340.8	347.9	360.1	366.0	375.6	366.8	356.3	348.8	341.2	332.4
25°	322.3	328.6	342.9	347.5	358.9	366.8	360.5	350.0	337.0	326.1	319.3
27.5°	314.3	321.4	330.7	343.3	352.1	356.8	350.4	346.2	332.8	319.7	310.1
30°	309.2	316.8	333.6	344.1	351.7	355.5	344.6	339.5	329.8	318.9	310.5
32.5°	305.9	312.6	326.9	340.4	345.4	345.4	347.1	341.2	327.7	309.2	302.1
35°	294.9	304.2	316.0	331.5	340.8	346.2	337.8	331.1	322.3	303.3	290.3
37.5°	288.6	294.9	310.1	324.8	332.8	338.7	335.3	323.5	311.8	296.2	285.7
40°	281.9	292.0	305.5	319.3	328.2	334.0	331.5	317.6	303.3	288.6	281.5
42.5°	277.3	284.0	297.9	313.4	324.0	335.3	327.7	310.5	300.4	280.2	272.2
45°	273.5	284.4	299.1	305.5	316.4	328.2	314.7	304.2	292.4	277.7	271.0
47.5°	268.9	279.0	288.6	305.5	310.5	316.0	313.4	296.6	286.5	270.5	266.0
50°	267.3	271.0	288.6	297.9	305.0	310.5	303.8	291.2	281.5	265.2	255.1
52.5°	260.5	267.7	279.0	291.2	300.0	306.7	295.8	287.8	274.8	257.6	251.3
55°	252.1	256.3	276.4	289.1	293.7	298.3	294.1	281.1	267.7	250.0	243.7
57.5°	241.2	250.9	267.3	284.8	290.7	293.3	286.5	276.0	259.3	243.7	233.6
60°	229.8	239.9	258.0	272.2	278.1	287.4	277.3	271.0	251.7	234.5	223.5
62.5°	218.5	229.8	243.3	261.4	266.4	270.1	267.7	258.9	243.3	224.0	210.5
65°	205.0	213.4	230.3	239.5	242.9	251.7	242.9	239.5	225.6	207.1	195.8
67.5°	184.9	192.0	206.7	215.5	218.1	221.9	221.4	217.7	202.1	189.5	179.4
70°	161.7	168.0	177.3	187.8	189.1	193.7	189.5	188.6	178.5	161.3	155.9
72.5°	129.9	135.7	147.9	152.6	153.0	154.7	152.6	149.6	147.1	129.0	123.5
75°	99.6	102.9	108.8	113.0	113.0	115.1	113.9	110.9	104.2	92.8	87.4
77.5°	69.3	72.7	80.2	82.8	82.3	83.2	79.4	76.4	66.4	60.5	55.8
80°	50.5	52.6	56.3	57.9	58.4	59.6	55.0	52.6	46.7	39.9	37.8
82.5°	36.6	37.8	38.3	40.4	40.4	38.3	37.0	34.5	30.3	26.1	24.4
85°	15.1	15.6	16.0	18.5	18.9	22.7	21.0	19.8	17.2	14.7	13.5
87.5°	3.8	4.2	5.5	4.6	5.5	5.5	5.9	6.7	6.7	5.5	5.5
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°	1286.6	1286.6	1286.6	1286.6	1286.6	1286.6	1286.6	1286.6	1286.6	1286.6	1286.6
2.5°	1145.8	1149.1	1192.0	1197.5	1218.5	1239.9	1283.2	1314.3	1339.5	1355.9	1360.5
5°	969.8	991.2	1011.0	1042.8	1071.9	1113.1	1160.5	1219.4	1293.3	1331.1	1346.2
7.5°	759.3	784.5	813.0	844.1	886.6	960.5	1023.9	1092.0	1186.6	1225.7	1284.9
10°	619.7	647.9	685.8	709.6	760.9	831.5	905.5	984.1	1074.4	1130.6	1199.2
12.5°	547.9	571.0	605.9	656.3	694.6	740.3	795.4	894.6	1023.9	1077.3	1124.4
15°	468.5	494.1	534.5	590.3	636.1	690.8	752.5	860.5	998.4	1080.7	1120.6
17.5°	402.9	421.4	463.9	512.2	564.7	624.4	713.0	858.8	1025.2	1130.6	1195.8
20°	357.6	360.1	383.2	424.4	495.8	573.6	688.7	850.4	1111.4	1216.8	1299.2
22.5°	329.0	326.5	326.9	361.8	411.8	523.5	650.4	879.0	1209.3	1353.8	1409.3
25°	314.7	308.0	303.8	311.3	356.8	464.3	621.4	916.8	1314.7	1466.8	1534.9
27.5°	307.1	295.4	286.9	288.2	321.4	434.5	603.3	933.2	1419.4	1624.4	1648.4
30°	304.2	289.5	277.3	273.1	294.9	392.8	564.7	961.3	1513.0	1710.9	1731.5
32.5°	293.7	275.6	263.9	260.1	268.9	356.3	537.0	981.5	1595.8	1805.0	1797.9
35°	281.5	266.4	251.7	244.6	250.9	332.8	514.7	971.9	1693.3	1878.1	1874.4
37.5°	280.2	260.5	248.3	236.6	236.2	303.8	484.4	981.1	1755.5	2009.2	1957.6
40°	269.3	256.8	240.8	231.1	225.6	289.1	455.1	959.2	1846.7	2062.2	2011.3
42.5°	269.7	250.9	237.0	225.6	220.2	267.7	434.9	953.4	1878.5	2148.3	2036.6
45°	263.1	244.6	232.8	219.3	216.4	251.3	415.5	926.0	1934.9	2152.5	2005.0
47.5°	256.3	239.9	227.3	211.3	204.6	245.4	400.4	903.4	1905.5	2113.0	1961.4
50°	251.7	232.8	221.0	209.7	190.7	235.3	380.6	897.9	1864.3	2059.7	1880.2
52.5°	243.7	226.9	214.7	205.9	175.6	226.1	373.2	929.8	1914.7	2019.7	1856.8
55°	236.2	218.9	203.4	186.1	163.0	201.7	352.1	959.7	1988.2	2111.8	1963.5
57.5°	228.2	211.8	194.9	174.3	150.9	176.4	330.3	965.1	1850.5	1951.7	1863.9
60°	217.7	196.6	184.0	157.2	137.8	146.2	261.8	850.8	1435.3	1629.9	1632.8
62.5°	205.9	183.2	172.2	140.8	124.4	126.1	213.4	715.1	1164.3	1349.1	1429.4
65°	190.3	168.5	155.5	130.3	114.7	109.2	156.3	523.9	884.5	1094.6	1185.7
67.5°	170.1	149.6	133.2	113.5	102.5	93.7	106.7	294.9	522.3	734.9	762.6
70°	148.8	131.1	113.9	97.5	85.3	79.0	78.1	130.7	249.6	395.4	450.0
72.5°	117.2	104.6	90.7	78.5	70.6	61.3	55.8	54.2	84.4	160.9	222.3
75°	84.0	73.5	65.5	57.5	51.7	46.7	42.5	38.7	35.3	40.4	55.4
77.5°	53.0	49.2	42.9	40.8	37.4	36.2	34.5	32.4	29.9	28.2	28.2
80°	35.7	33.2	31.1	30.7	29.4	29.0	29.4	27.3	24.8	22.7	23.5
82.5°	24.0	23.5	23.1	22.7	23.1	23.5	24.4	24.0	21.9	20.6	21.0
85°	14.3	15.1	16.0	16.8	18.5	16.4	13.5	11.4	10.1	9.3	8.8
87.5°	5.5	7.6	6.7	6.3	6.7	6.3	5.9	5.5	4.6	4.2	4.2
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°	1286.6	1286.6	1286.6	1286.6	1286.6	1286.6	1286.6	1286.6	1286.6	1286.6
2.5°	1391.2	1399.6	1406.7	1405.1	1390.3	1370.6	1362.6	1321.9	1313.5	1308.0
5°	1410.1	1458.8	1469.3	1463.0	1424.8	1376.5	1329.5	1269.7	1234.8	1233.6
7.5°	1375.2	1435.3	1454.2	1468.5	1417.7	1333.7	1252.9	1163.4	1141.6	1143.3
10°	1286.6	1382.4	1429.0	1443.7	1385.3	1312.6	1200.9	1110.1	1063.4	1062.6
12.5°	1237.4	1312.6	1325.7	1346.2	1329.0	1255.4	1170.6	1068.9	1023.5	1022.7
15°	1193.7	1243.3	1247.0	1276.0	1285.3	1235.7	1178.6	1070.2	1033.6	1029.8
17.5°	1232.0	1197.5	1183.2	1187.0	1214.3	1232.4	1224.8	1141.6	1104.2	1083.2
20°	1257.5	1180.7	1137.4	1141.6	1174.0	1239.9	1293.7	1244.9	1185.7	1188.2
22.5°	1326.1	1183.2	1115.6	1111.0	1162.2	1279.4	1371.4	1375.6	1318.5	1304.6
25°	1428.6	1212.2	1108.9	1107.6	1156.7	1321.9	1462.2	1530.3	1471.8	1446.3
27.5°	1510.9	1257.5	1129.8	1134.0	1174.0	1356.3	1539.5	1629.9	1585.3	1553.8
30°	1583.2	1304.6	1159.2	1139.9	1220.2	1374.4	1572.7	1743.3	1707.6	1681.5
32.5°	1613.0	1371.4	1205.9	1174.0	1258.4	1396.2	1641.6	1853.4	1822.7	1758.4
35°	1663.4	1408.8	1231.1	1228.6	1325.2	1448.7	1673.9	1926.1	1913.4	1856.3
37.5°	1703.8	1446.7	1320.6	1292.9	1416.8	1537.0	1726.1	2026.5	1997.5	1970.6
40°	1734.9	1514.3	1404.2	1440.8	1529.4	1617.2	1773.9	2032.8	2116.4	2038.2
42.5°	1706.3	1574.8	1541.6	1629.0	1713.0	1708.8	1779.4	2081.6	2144.1	2103.3
45°	1699.2	1677.3	1758.9	1838.3	1857.6	1784.9	1740.4	2027.7	2135.7	2117.6
47.5°	1681.9	1778.1	1920.2	2049.6	2020.2	1835.7	1693.7	2018.1	2140.8	2108.4
50°	1676.0	1800.0	2039.5	2165.6	2147.9	1879.8	1671.8	1955.9	2105.0	2102.1
52.5°	1675.6	1845.0	2089.1	2228.6	2239.5	1949.6	1701.7	1987.4	2132.8	2157.6
55°	1694.5	1830.7	2082.8	2193.7	2189.5	1918.5	1705.0	2008.4	2166.8	2191.2
57.5°	1598.3	1640.0	1718.9	1806.7	1784.0	1589.1	1522.7	1856.8	1988.6	1971.1
60°	1380.2	1250.0	1160.9	1156.7	1112.6	1051.7	1246.2	1657.2	1657.2	1640.0
62.5°	1208.9	820.6	705.0	672.3	703.7	774.0	1202.1	1611.8	1565.9	1546.3
65°	1057.1	626.5	509.6	500.4	555.1	660.9	1087.0	1373.1	1292.4	1226.9
67.5°	680.3	458.8	379.0	362.6	428.6	485.3	723.5	844.5	793.7	768.1
70°	438.7	298.7	210.9	197.9	223.5	299.1	462.2	492.4	418.5	401.2
72.5°	207.6	129.0	73.9	60.9	68.5	114.3	182.7	196.6	163.4	149.6
75°	65.9	47.5	30.3	26.1	24.8	29.4	42.0	32.4	23.5	23.1
77.5°	29.4	28.2	24.0	20.2	17.7	14.7	12.2	10.1	10.5	10.9
80°	24.4	22.3	19.8	17.7	14.7	11.4	8.8	6.7	6.7	7.1
82.5°	21.4	19.3	17.2	14.7	12.6	9.3	6.7	4.6	4.2	4.2
85°	9.3	10.9	11.8	12.6	10.1	7.6	4.6	2.9	2.5	2.5
87.5°	3.8	3.4	2.9	2.5	2.1	2.1	1.7	1.3	0.8	0.8
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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