

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: P526677

Luminaire Tested: **GALN-SA1C-827-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526677
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-827-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2891 lumens
Efficiency: N/A
Efficacy: 50.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G0

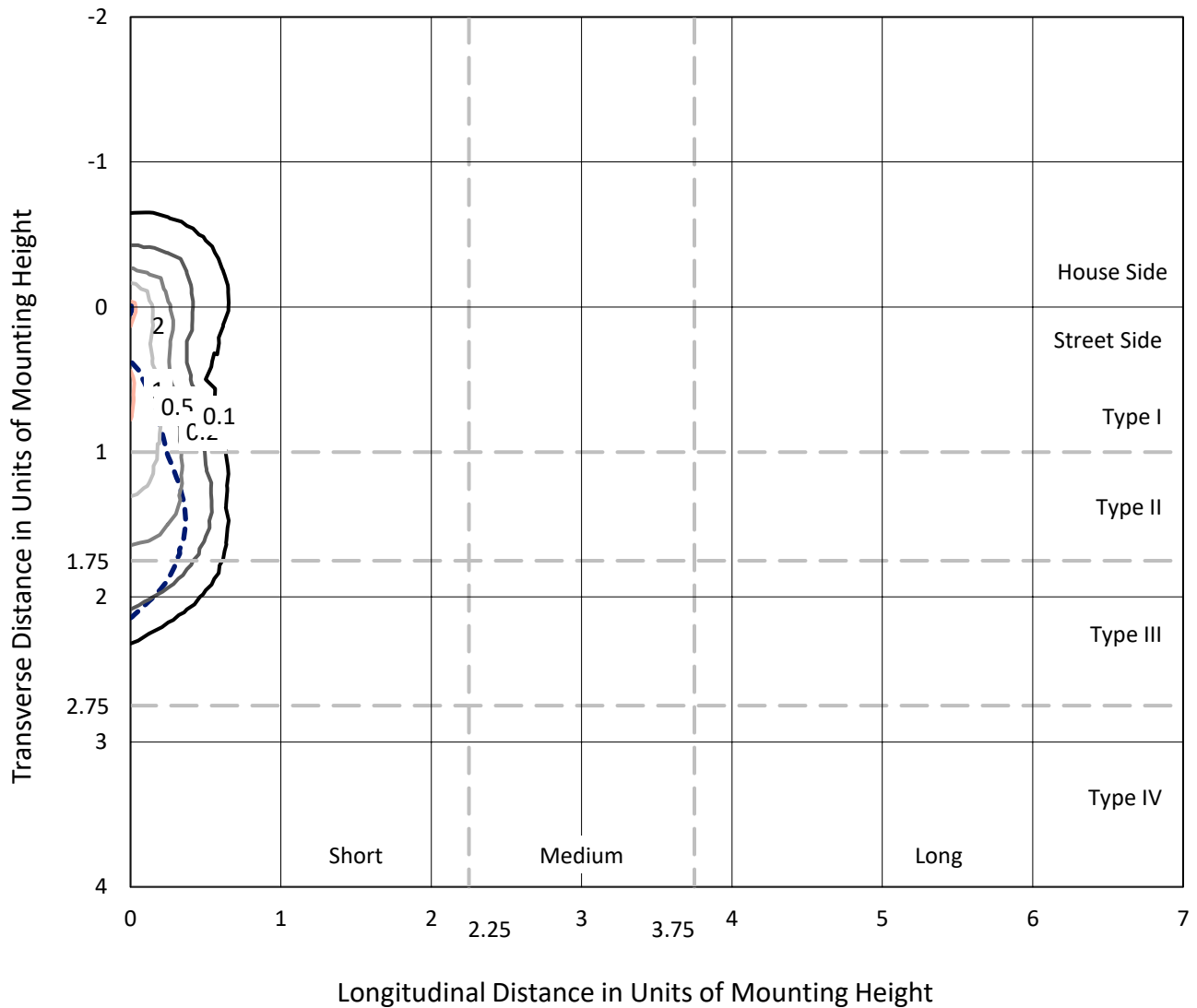
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

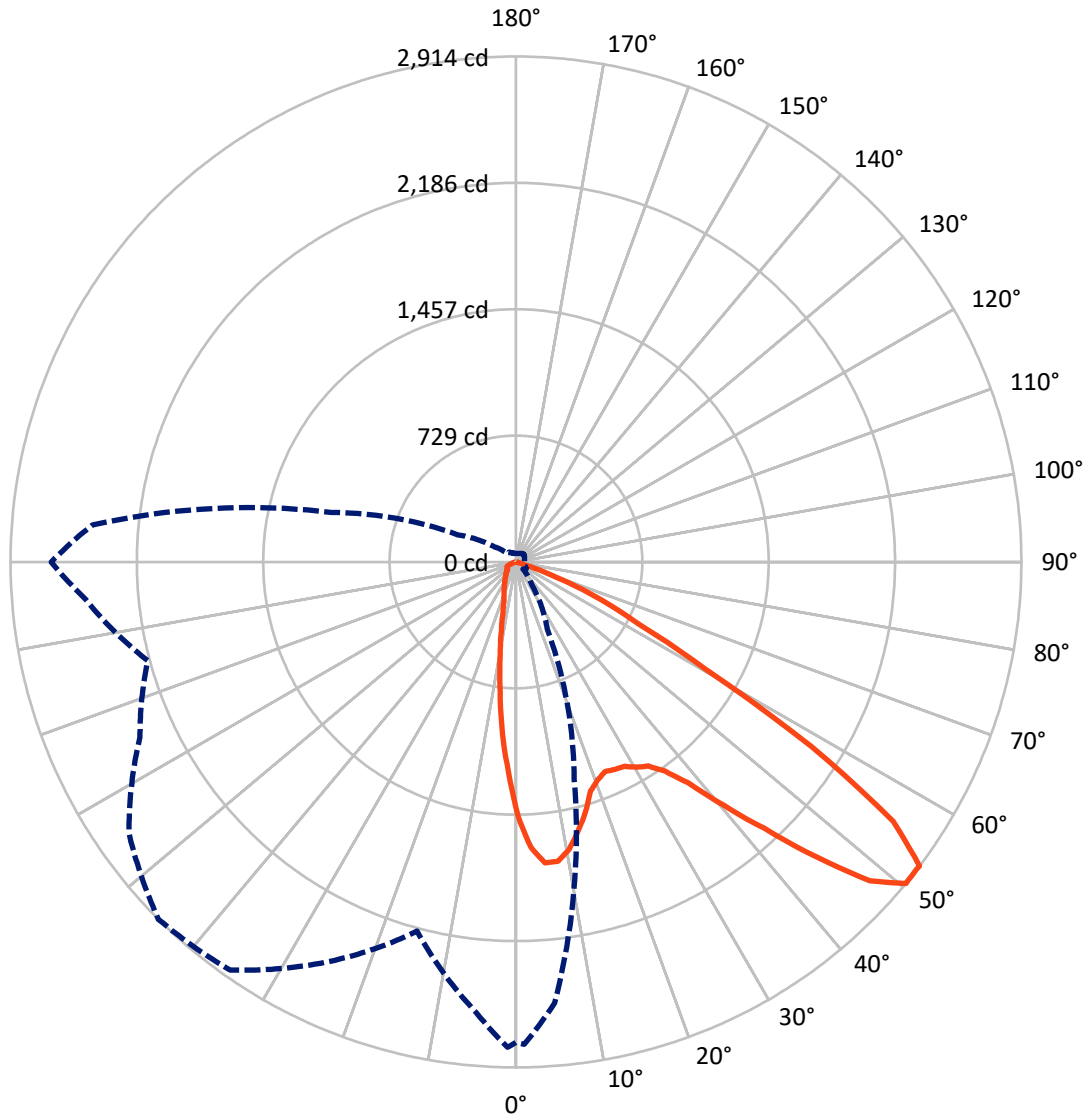
× Max cd
 - - - 1/2 Max cd



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



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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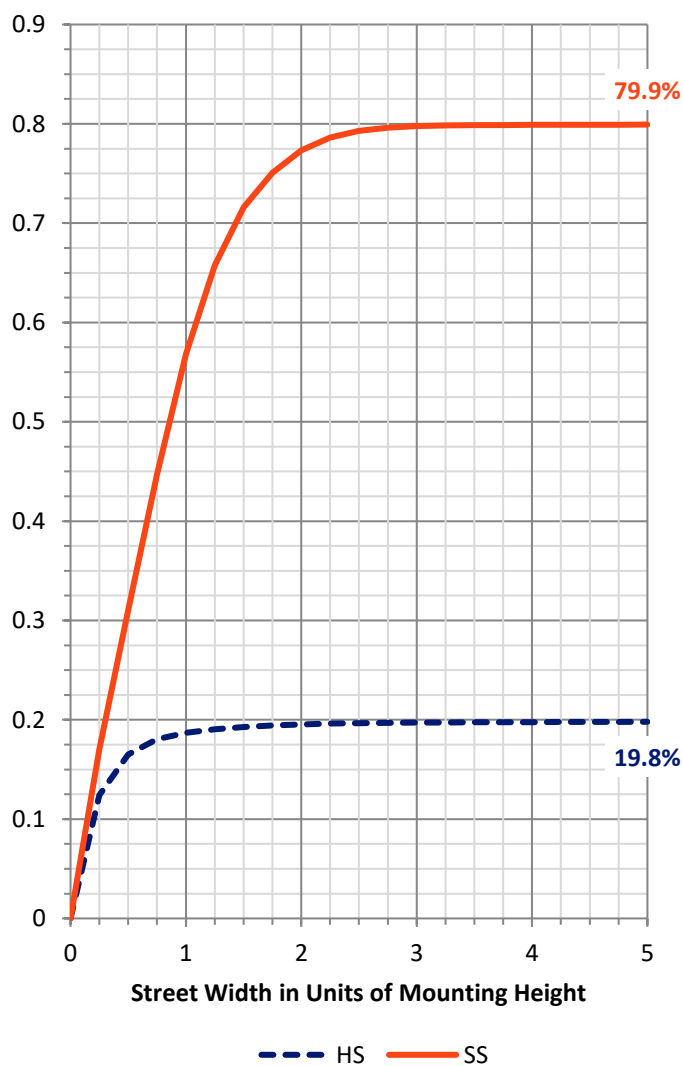
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	579.1	0.0	579.1
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	2311.9	0.0	2311.9
	% Fixture	80.0	0.0	80.0
Total	Lumens	2891.0	0.0	2891.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.9	3.7
10°-20°	212.4	7.3
20°-30°	319.1	11.0
30°-40°	478.9	16.6
40°-50°	673.1	23.3
50°-60°	726.0	25.1
60°-70°	337.1	11.7
70°-80°	31.7	1.1
80°-90°	5.8	0.2
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°	2891.0	100.0
0°-180°	2891.0	100.0

Coefficient of Utilization



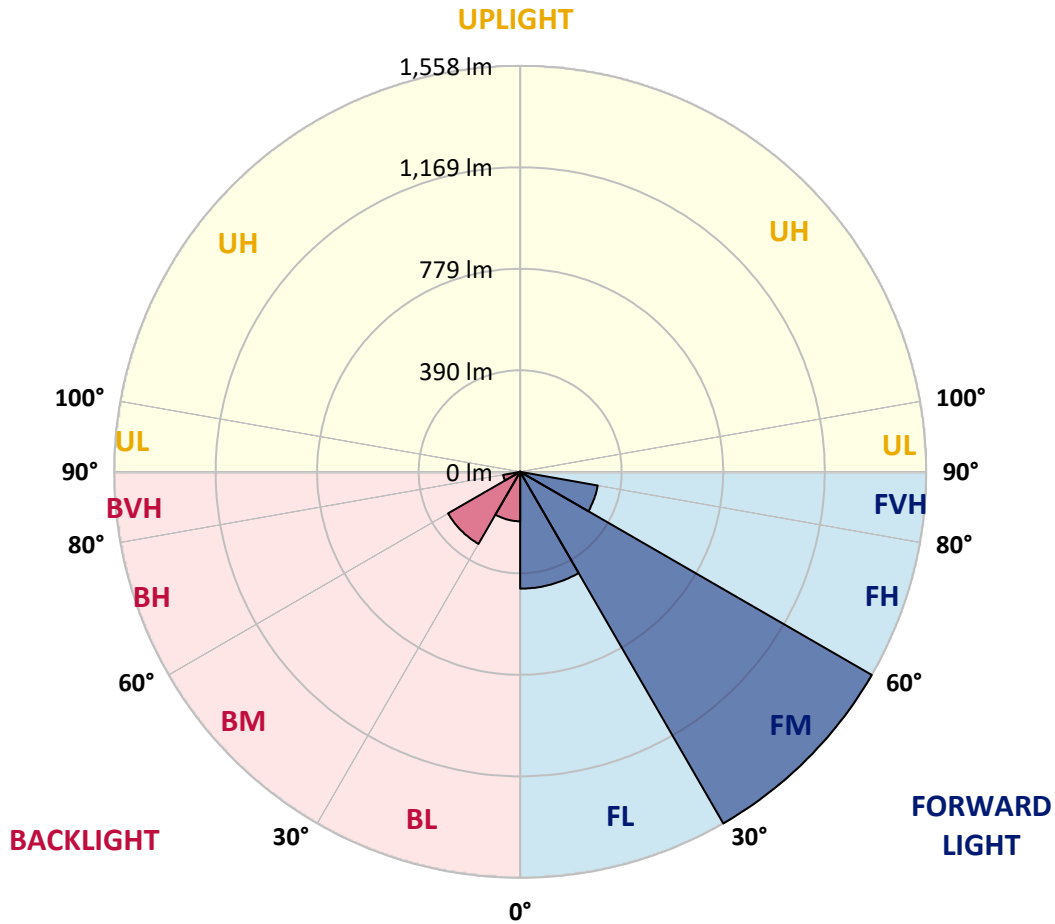
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	448.5	15.5			
FM (30°-60°)	1558.5	53.9			
FH (60°-80°)	302.3	10.5			G0/660
FVH (80°-90°)	2.6	0.1			G0/10
BL (0°-30°)	189.8	6.6	B1/500		
BM (30°-60°)	319.6	11.1	B1/1000		
BH (60°-80°)	66.5	2.3	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: B1-U0-G0

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1466.1	1466.1	1466.1	1466.1	1466.1	1466.1	1466.1	1466.1	1466.1	1466.1	1466.1
2.5°	1524.0	1500.5	1470.7	1446.0	1409.3	1335.3	1315.2	1291.2	1271.1	1244.1	1206.3
5°	1385.8	1378.3	1364.6	1271.7	1204.5	1115.1	1041.6	1010.7	969.9	936.7	912.6
7.5°	1280.3	1250.4	1206.8	1113.3	1006.1	910.3	828.8	781.2	727.3	709.0	676.3
10°	1167.3	1174.1	1109.9	978.5	848.9	771.5	721.0	675.1	626.4	594.2	547.8
12.5°	1131.1	1108.8	1059.4	897.1	786.4	714.1	652.7	596.0	544.3	492.7	448.0
15°	1154.6	1120.2	1051.4	879.9	738.2	648.2	571.3	494.4	446.8	380.9	334.4
17.5°	1239.0	1211.4	1119.1	898.2	713.5	585.1	470.9	391.8	318.9	259.3	235.7
20°	1379.5	1340.5	1224.6	921.8	676.8	508.8	382.0	284.5	215.7	190.4	177.2
22.5°	1517.2	1495.9	1349.7	967.1	644.1	441.1	286.8	191.6	161.2	156.6	148.0
25°	1779.3	1715.6	1540.7	1049.1	618.9	377.4	216.2	154.3	136.5	133.1	134.2
27.5°	1935.3	1882.0	1717.3	1103.6	590.8	328.7	183.0	141.7	129.6	122.2	119.3
30°	2085.0	2023.1	1805.1	1135.7	530.6	277.0	162.3	135.9	133.1	122.2	118.7
32.5°	2200.3	2139.5	1931.9	1183.9	505.9	243.8	133.6	106.1	98.7	97.5	107.8
35°	2377.0	2312.1	2040.3	1210.3	487.0	226.6	115.9	94.6	86.0	82.6	83.2
37.5°	2541.6	2497.4	2140.6	1220.6	466.9	221.4	103.8	84.9	77.4	75.1	74.6
40°	2679.2	2580.6	2235.9	1231.5	458.3	211.7	96.4	77.4	72.3	68.8	68.8
42.5°	2742.3	2642.0	2342.6	1225.2	456.0	196.2	96.4	71.1	67.1	63.7	63.1
45°	2728.6	2687.9	2390.2	1222.3	456.0	180.7	87.8	69.4	63.7	59.1	57.9
47.5°	2764.1	2710.8	2449.8	1234.4	446.8	169.8	74.0	72.8	60.2	54.5	53.3
50°	2770.4	2780.8	2553.6	1296.9	426.8	156.0	57.9	71.7	57.9	49.3	48.2
52°	2811.7	2747.5	2585.2	1330.2	405.5	145.7	48.8	61.4	55.6	45.9	44.7
52.5°	2755.0	2796.8	2592.6	1342.2	407.8	138.8	47.0	60.2	54.5	45.9	43.0
55°	2691.3	2731.4	2562.2	1368.0	374.0	109.0	36.7	43.6	49.3	40.2	38.4
57.5°	2339.1	2379.8	2226.7	1252.7	304.6	76.9	30.4	32.7	43.6	37.3	35.6
60°	2079.3	2050.0	1868.8	1045.1	216.2	43.0	24.1	25.2	47.6	34.4	33.8
62.5°	1900.3	1837.8	1561.9	807.0	131.9	28.7	18.9	19.5	36.7	32.1	32.1
65°	1405.9	1335.9	1037.6	488.1	64.8	20.1	14.3	15.5	22.9	27.5	27.5
67.5°	802.5	775.5	501.3	220.3	27.0	12.6	10.9	12.0	17.8	22.4	21.2
70°	368.8	331.0	192.7	46.5	12.6	8.6	8.6	9.8	14.3	16.6	15.5
72.5°	107.8	102.1	47.0	7.5	5.2	5.2	5.7	7.5	10.9	12.6	11.5
75°	8.0	5.2	3.4	2.3	2.3	3.4	4.6	7.5	10.9	12.0	9.8
77.5°	0.6	1.1	0.6	0.6	1.7	3.4	5.2	9.2	14.3	14.9	10.9
80°	0.6	0.6	0.0	0.6	1.7	3.4	5.7	10.3	16.1	17.2	9.2
82.5°	0.0	0.0	0.0	0.6	2.3	4.6	6.9	10.9	14.9	18.4	9.8
85°	0.0	0.0	0.0	0.6	3.4	6.3	8.0	2.9	1.7	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1466.1	1466.1	1466.1	1466.1	1466.1	1466.1	1466.1	1466.1	1466.1	1466.1	1466.1
2.5°	1233.2	1218.3	1212.6	1217.7	1216.0	1214.3	1245.8	1239.0	1237.8	1248.1	1245.8
5°	925.8	899.4	971.7	942.4	972.8	991.2	994.6	996.3	1017.6	995.2	1024.4
7.5°	659.6	666.5	665.9	685.4	720.4	751.4	769.8	755.4	754.3	751.4	738.8
10°	527.1	515.1	512.8	508.2	519.1	545.5	567.9	550.1	537.5	554.7	549.5
12.5°	430.8	414.1	405.0	386.6	387.2	405.0	405.0	405.0	417.6	427.3	434.8
15°	330.4	316.6	316.6	298.3	294.3	294.8	304.0	305.2	325.2	331.0	333.8
17.5°	231.2	223.7	232.3	239.8	235.2	236.3	239.8	240.9	243.8	241.5	247.2
20°	177.8	176.7	179.0	192.2	201.9	207.6	203.6	197.9	194.4	186.4	186.4
22.5°	150.9	153.1	157.2	168.1	180.7	184.1	179.5	166.3	156.0	154.9	155.4
25°	134.2	136.5	142.8	149.7	156.6	162.3	157.7	148.0	142.3	137.1	137.1
27.5°	123.9	125.0	128.5	133.6	139.4	144.0	142.3	137.1	130.8	128.5	123.3
30°	115.9	117.6	121.6	122.7	127.9	130.2	127.3	126.2	122.2	119.3	117.6
32.5°	111.9	111.3	114.1	115.3	115.9	117.6	114.1	115.9	115.3	110.7	109.0
35°	84.3	88.9	96.4	102.7	104.4	106.7	106.1	103.8	97.5	92.3	86.0
37.5°	75.7	78.6	82.6	87.8	94.6	97.5	96.4	90.6	83.2	79.7	78.6
40°	70.0	71.7	75.1	78.6	85.5	90.6	86.6	81.5	75.7	72.8	71.1
42.5°	64.8	65.4	67.1	70.6	75.7	83.7	76.9	70.0	67.7	66.0	64.8
45°	59.1	59.1	61.4	63.1	68.8	76.3	69.4	63.1	61.9	60.8	60.2
47.5°	54.5	55.1	56.2	58.5	63.1	68.3	63.7	58.5	55.6	55.1	53.9
50°	48.8	49.3	51.6	53.9	59.7	62.5	59.7	53.9	51.0	49.3	49.3
52°	44.2	45.9	48.2	52.8	56.8	61.4	57.9	51.6	48.2	46.5	45.3
52.5°	43.6	44.7	47.0	52.2	56.8	60.8	57.4	51.0	47.0	45.9	44.7
55°	39.0	40.7	44.7	51.0	56.2	60.8	56.2	50.5	44.7	41.9	40.7
57.5°	37.3	38.4	43.6	51.6	55.6	60.8	56.2	50.5	44.7	39.6	38.4
60°	35.6	37.9	43.6	49.9	55.1	61.4	56.8	49.9	43.6	37.3	37.3
62.5°	33.8	35.6	43.0	48.8	52.8	59.1	54.5	48.8	41.9	35.6	35.0
65°	29.3	32.1	37.9	40.7	45.3	51.0	46.5	42.4	36.7	31.5	31.0
67.5°	22.4	23.5	28.1	31.5	34.4	39.6	37.3	32.1	28.1	24.1	24.1
70°	15.5	16.6	20.1	21.8	24.7	27.5	25.8	21.8	18.9	16.6	16.1
72.5°	10.9	11.5	12.6	13.8	14.9	16.1	15.5	12.6	10.9	10.3	9.8
75°	8.6	9.8	10.3	9.8	9.2	8.6	8.6	7.5	6.3	5.7	5.7
77.5°	8.6	9.2	8.6	7.5	6.3	5.7	5.2	4.6	3.4	2.9	3.4
80°	7.5	7.5	7.5	6.3	5.7	5.2	4.6	4.0	3.4	2.9	2.9
82.5°	8.0	8.0	7.5	6.3	6.3	5.2	5.2	4.6	4.0	2.9	2.9
85°	0.0	0.0	0.0	1.1	2.9	5.2	5.2	4.6	4.0	3.4	3.4
87.5°	0.0	0.0	0.0	0.0	0.6	1.1	2.3	2.9	3.4	3.4	3.4
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°	1466.1	1466.1	1466.1	1466.1	1466.1	1466.1	1466.1	1466.1	1466.1	1466.1	1466.1
2.5°	1266.5	1288.3	1329.6	1370.9	1396.1	1425.9	1479.9	1508.5	1545.8	1564.2	1600.3
5°	1020.4	1072.0	1090.4	1137.4	1187.9	1238.4	1318.7	1407.0	1480.4	1530.9	1596.3
7.5°	744.5	756.6	827.7	859.2	941.8	1033.6	1143.2	1254.4	1347.4	1430.0	1479.9
10°	558.1	602.3	647.0	707.2	773.8	868.4	973.4	1096.1	1216.6	1299.2	1362.3
12.5°	448.5	483.5	543.2	608.0	690.0	752.6	858.1	979.7	1135.7	1216.6	1299.8
15°	339.6	384.3	452.0	519.1	605.7	671.7	778.4	931.5	1132.3	1243.5	1315.2
17.5°	251.8	282.2	343.0	418.1	506.5	599.4	743.4	926.4	1170.7	1303.2	1377.2
20°	192.7	203.1	241.5	308.6	404.4	526.0	686.6	948.7	1284.3	1448.3	1523.5
22.5°	156.0	160.6	175.5	222.0	314.9	461.7	659.6	964.2	1412.2	1622.1	1722.5
25°	135.9	134.8	144.5	164.6	246.1	401.5	625.2	1022.7	1568.8	1826.3	1916.4
27.5°	123.9	123.9	128.5	142.8	204.2	362.5	603.4	1064.6	1726.5	2005.9	2054.6
30°	117.6	118.7	131.9	136.5	169.8	316.0	567.3	1107.0	1877.4	2120.6	2187.7
32.5°	109.0	104.4	101.5	113.0	142.8	274.2	531.1	1124.8	1999.5	2261.1	2318.5
35°	83.7	81.5	84.9	93.5	122.7	238.6	491.0	1144.9	2140.1	2424.0	2435.5
37.5°	75.7	75.1	77.4	84.9	103.2	207.6	462.3	1139.7	2247.3	2558.8	2527.8
40°	70.0	70.0	71.7	78.0	92.3	185.8	432.5	1135.1	2351.2	2710.2	2619.6
42.5°	65.4	65.4	68.3	72.3	87.8	171.5	410.1	1128.8	2438.3	2803.1	2673.5
45°	59.1	60.8	65.4	69.4	88.9	161.8	393.5	1104.7	2468.2	2802.0	2647.7
47.5°	54.5	56.8	61.4	67.1	80.3	158.9	382.0	1083.5	2457.8	2733.2	2566.8
50°	49.3	52.2	58.5	68.3	68.3	153.1	370.0	1102.4	2450.4	2679.8	2489.4
52°	45.9	48.2	56.2	66.5	59.7	141.1	362.5	1139.2	2480.8	2672.9	2455.0
52.5°	45.3	47.0	54.5	65.4	56.8	138.8	357.3	1147.8	2490.5	2655.7	2478.5
55°	40.2	42.4	49.9	51.0	46.5	114.1	340.7	1167.3	2442.4	2621.9	2456.1
57.5°	37.9	39.0	44.2	41.9	40.2	86.0	293.1	1136.9	2169.3	2328.8	2285.2
60°	35.0	36.1	41.3	32.7	33.8	60.2	220.3	987.2	1742.0	1940.5	2019.0
62.5°	33.8	33.3	39.0	26.4	28.7	43.6	155.4	802.5	1342.2	1597.5	1733.4
65°	29.8	29.3	28.1	22.4	24.7	33.8	92.9	523.7	945.9	1208.6	1283.1
67.5°	22.9	24.1	20.6	17.8	20.6	26.4	51.6	234.6	496.2	725.0	785.2
70°	16.1	17.2	16.6	15.5	18.4	21.8	29.8	80.3	205.3	380.9	419.9
72.5°	9.8	12.0	12.6	13.2	16.1	18.9	21.2	25.8	54.5	134.8	167.5
75°	5.7	8.0	9.8	11.5	13.2	16.1	17.8	18.4	18.9	25.2	40.7
77.5°	4.0	5.7	8.6	10.9	13.2	16.1	18.9	20.1	18.9	17.8	18.9
80°	3.4	5.7	8.0	10.3	13.8	16.6	18.9	18.9	18.4	16.1	17.2
82.5°	3.4	5.7	8.6	10.9	13.2	16.1	18.4	18.9	17.2	16.1	16.6
85°	4.0	6.3	9.2	11.5	14.3	13.2	12.0	9.8	9.2	7.5	8.0
87.5°	4.0	5.7	5.7	6.3	6.9	6.9	6.9	6.3	5.2	4.6	4.6
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1466.1	1466.1	1466.1	1466.1	1466.1	1466.1	1466.1	1466.1	1466.1	1466.1
2.5°	1602.0	1647.9	1646.2	1647.4	1640.5	1594.0	1571.6	1514.9	1530.9	1524.0
5°	1663.4	1708.7	1747.7	1743.1	1690.4	1627.3	1533.8	1445.5	1421.4	1385.8
7.5°	1602.0	1711.0	1747.2	1742.0	1664.0	1583.1	1434.0	1345.6	1303.8	1280.3
10°	1504.5	1630.7	1675.5	1684.6	1631.9	1509.1	1372.0	1230.4	1208.0	1167.3
12.5°	1448.9	1540.7	1568.2	1592.9	1574.5	1482.7	1325.0	1189.1	1158.1	1131.1
15°	1403.6	1458.1	1469.5	1497.6	1508.5	1459.2	1349.7	1233.8	1157.5	1154.6
17.5°	1445.5	1423.1	1381.2	1389.8	1424.2	1459.8	1413.3	1322.1	1248.1	1239.0
20°	1514.9	1416.2	1321.6	1342.8	1371.5	1480.4	1509.7	1445.5	1403.0	1379.5
22.5°	1594.6	1428.2	1302.6	1313.0	1367.4	1526.9	1665.7	1630.1	1551.0	1517.2
25°	1742.0	1461.5	1317.5	1324.4	1399.0	1591.7	1806.8	1833.2	1786.2	1779.3
27.5°	1886.0	1547.6	1350.2	1334.7	1415.1	1654.8	1892.3	2034.0	1951.4	1935.3
30°	1959.4	1617.5	1399.0	1372.6	1481.6	1693.2	1943.9	2164.7	2092.5	2085.0
32.5°	2071.8	1681.2	1436.8	1403.0	1518.9	1740.9	2040.3	2307.6	2237.6	2200.3
35°	2118.8	1750.6	1520.0	1480.4	1625.6	1807.4	2089.6	2434.9	2413.1	2377.0
37.5°	2209.5	1825.2	1618.1	1615.8	1754.6	1894.0	2178.5	2608.1	2604.1	2541.6
40°	2216.9	1906.6	1773.0	1845.2	1954.2	2044.9	2256.5	2656.3	2721.7	2679.2
42.5°	2228.4	2049.4	2040.8	2100.5	2194.0	2174.5	2259.4	2667.8	2767.6	2742.3
45°	2233.6	2192.3	2313.3	2423.4	2462.4	2344.3	2232.4	2646.0	2791.7	2728.6
47.5°	2192.3	2315.0	2533.6	2746.4	2757.8	2448.7	2220.9	2623.6	2806.0	2764.1
50°	2198.0	2391.9	2724.0	2914.4	2872.5	2541.0	2203.2	2609.8	2798.6	2770.4
52°	2184.2	2393.6	2750.9	2911.0	2881.7	2490.0	2172.8	2557.1	2791.7	2811.7
52.5°	2199.7	2383.3	2722.8	2913.3	2875.4	2515.2	2168.8	2586.3	2795.7	2755.0
55°	2146.4	2260.5	2558.2	2639.1	2633.4	2282.9	2045.4	2489.4	2690.7	2691.3
57.5°	1939.9	1959.4	2006.4	2004.7	1978.3	1794.8	1749.5	2289.2	2398.8	2339.1
60°	1709.3	1434.6	1307.8	1256.2	1226.9	1197.1	1547.6	2094.2	2104.5	2079.3
62.5°	1477.0	994.6	826.0	811.6	818.5	927.5	1495.9	2016.7	1954.8	1900.3
65°	1191.9	725.0	600.0	581.0	648.2	765.7	1210.9	1546.4	1451.2	1405.9
67.5°	748.5	528.9	405.5	370.0	450.8	527.1	795.6	971.7	865.0	802.5
70°	444.0	295.4	183.5	164.6	185.3	281.1	445.7	484.7	400.9	368.8
72.5°	174.9	108.4	51.0	43.6	45.3	98.7	164.0	160.0	121.0	107.8
75°	47.0	32.7	17.8	14.3	12.0	18.4	26.4	17.2	6.3	8.0
77.5°	21.8	19.5	15.5	12.0	9.2	6.9	3.4	1.1	1.1	0.6
80°	18.9	16.6	14.3	12.0	9.2	5.7	2.9	0.6	0.6	0.6
82.5°	17.8	15.5	13.2	10.9	8.6	5.7	2.9	0.6	0.0	0.0
85°	7.5	9.8	10.9	10.3	9.2	5.7	2.9	0.6	0.0	0.0
87.5°	4.0	3.4	2.9	2.3	1.7	1.1	1.1	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

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