

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: P450234

Luminaire Tested: **GALN-SA1A-730-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450234
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-730-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 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: 3633 lumens
Efficiency: N/A
Efficacy: 110.1 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

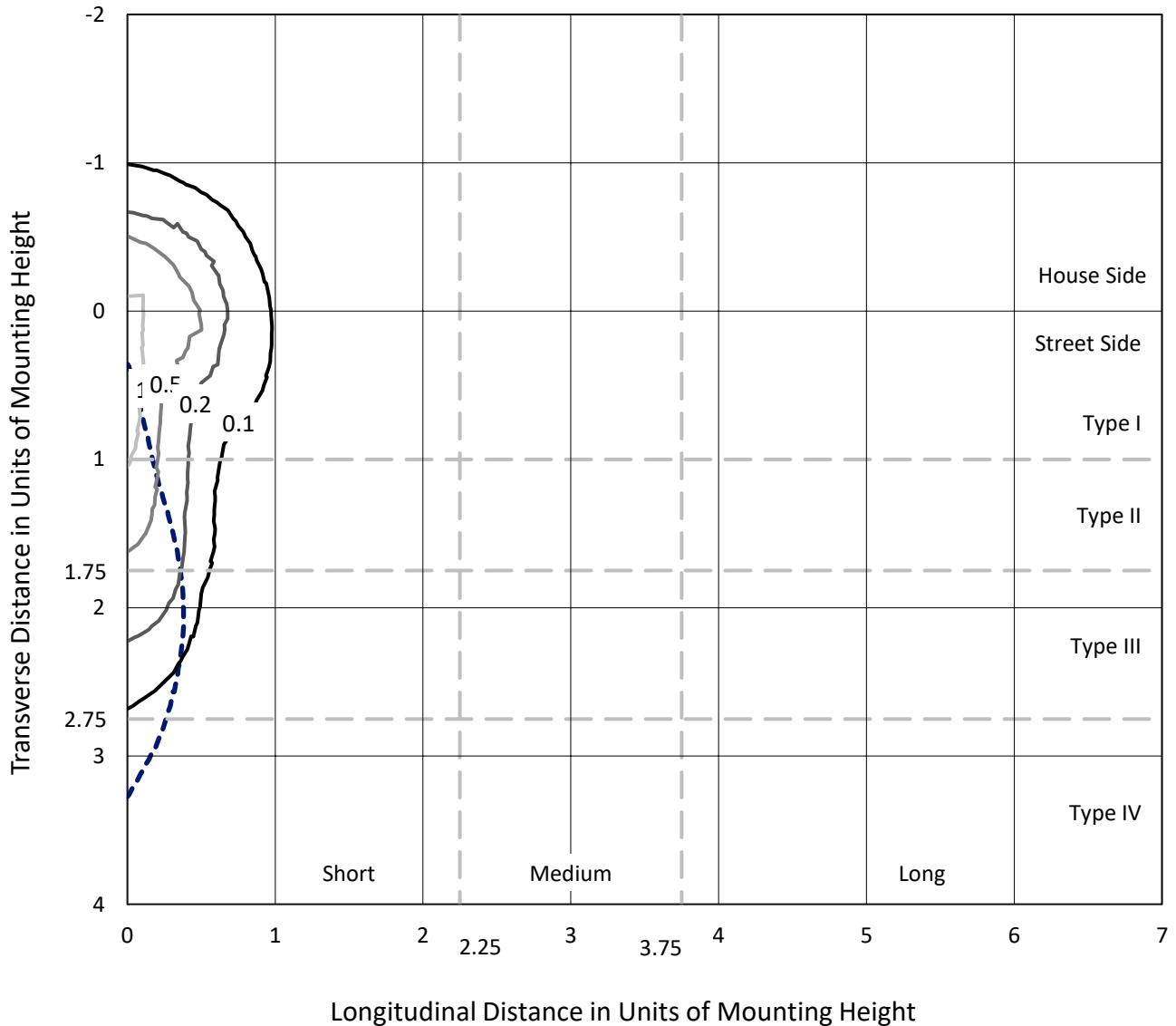
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

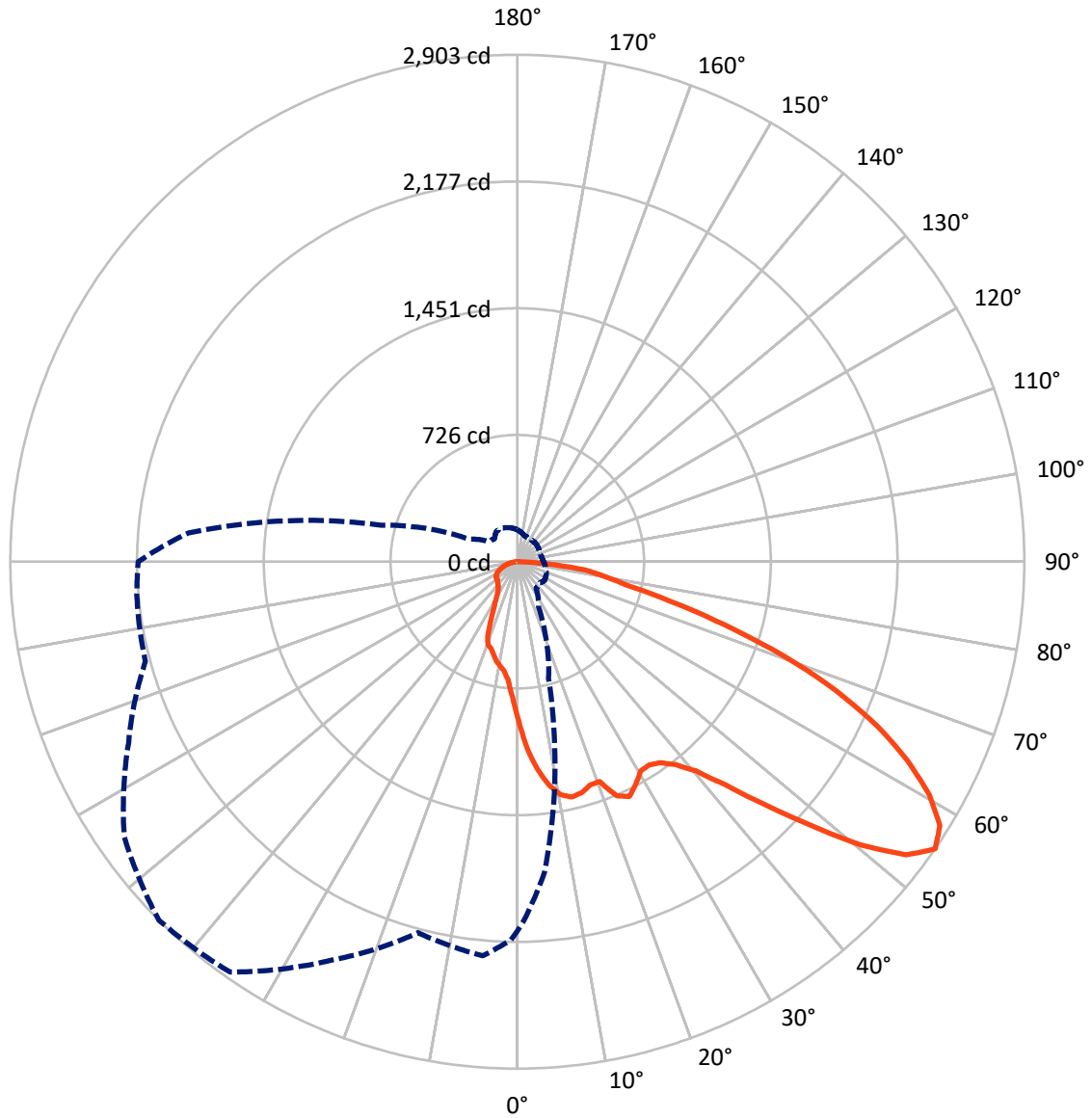
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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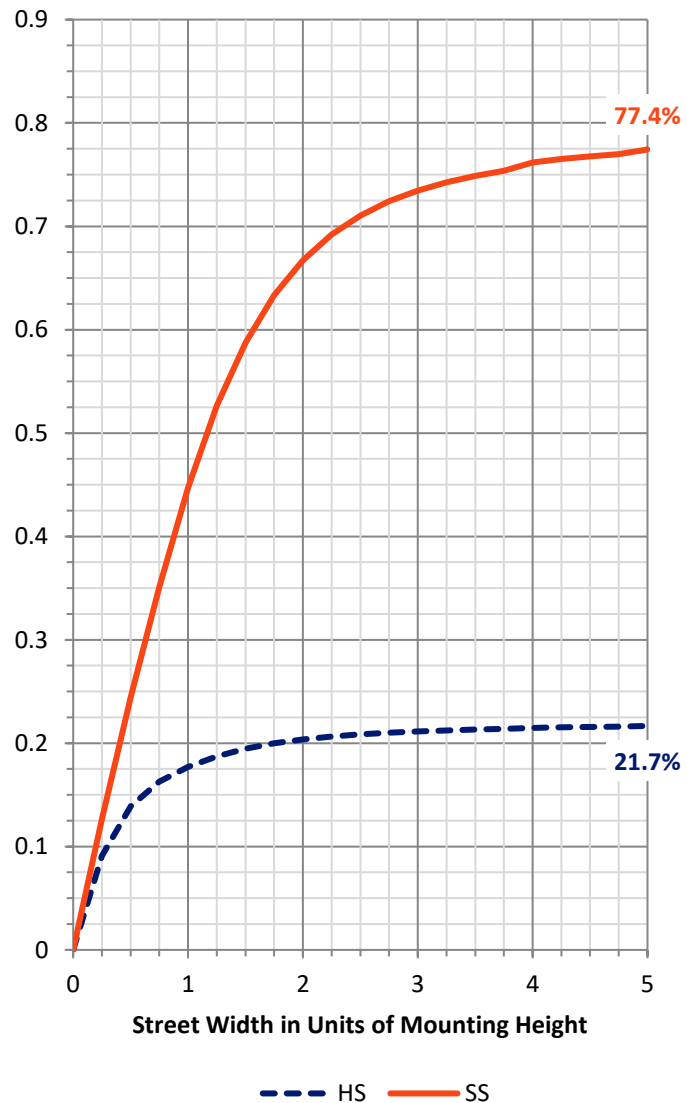
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	794.7	0.0	794.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	2838.3	0.0	2838.3
	% Fixture	78.1	0.0	78.1
Total	Lumens	3633.0	0.0	3633.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.3	2.1
10°-20°	205.0	5.6
20°-30°	354.2	9.7
30°-40°	411.6	11.3
40°-50°	574.2	15.8
50°-60°	779.2	21.4
60°-70°	741.3	20.4
70°-80°	400.5	11.0
80°-90°	89.8	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°	3633.0	100.0
0°-180°	3633.0	100.0



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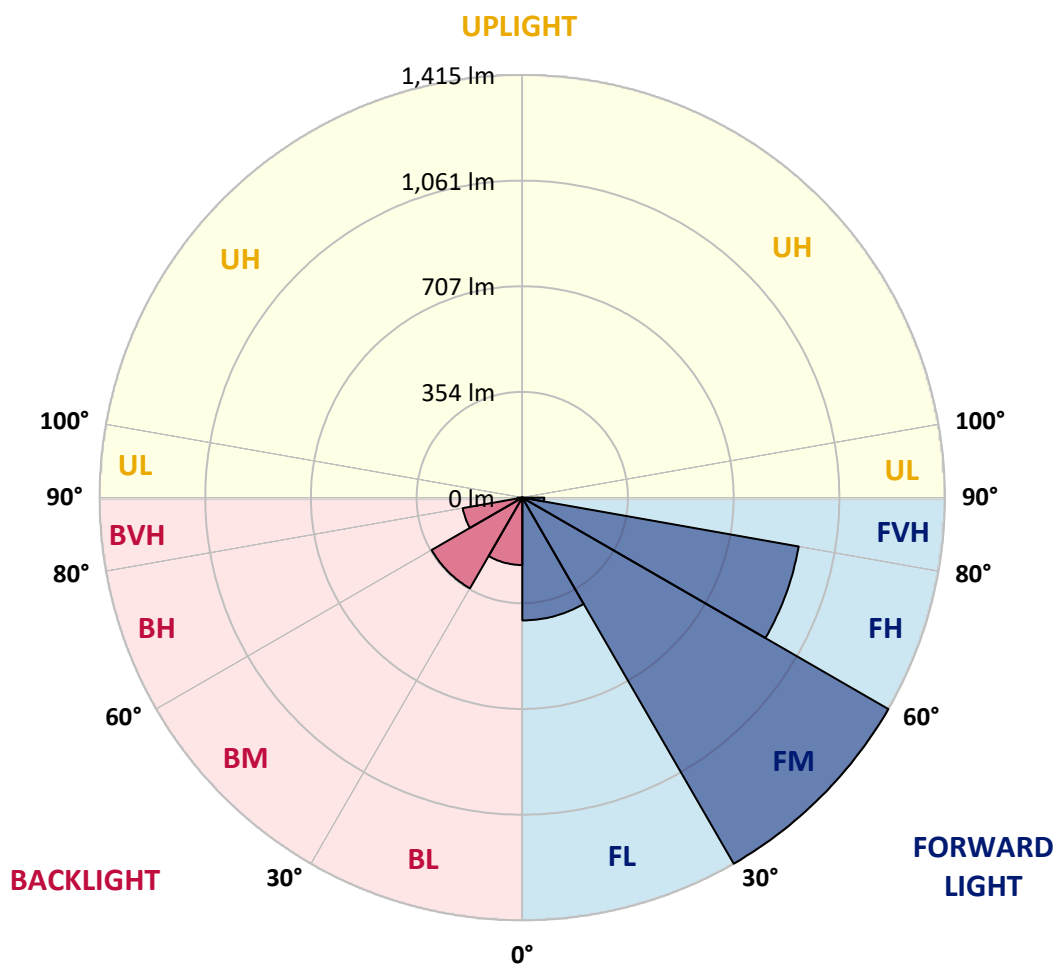
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	410.9	11.3			
FM (30°-60°)	1414.6	38.9			
FH (60°-80°)	939.4	25.9			G1/1800
FVH (80°-90°)	73.4	2.0			G1/100
BL (0°-30°)	225.5	6.2	B1/500		
BM (30°-60°)	350.4	9.6	B1/1000		
BH (60°-80°)	202.3	5.6	B1/500		G1/500
BVH (80°-90°)	16.4	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°	911.7	911.7	911.7	911.7	911.7	911.7	911.7	911.7	911.7	911.7	911.7
2.5°	1012.9	1009.1	998.3	970.0	941.5	912.5	890.2	862.4	833.4	817.8	797.9
5°	1026.8	1022.5	997.1	933.3	875.5	814.9	766.5	724.1	706.8	681.4	661.0
7.5°	994.2	992.3	954.2	862.6	783.5	704.2	649.3	615.3	584.3	572.8	575.2
10°	964.5	956.8	909.1	789.5	697.2	632.8	593.4	560.1	538.3	532.6	533.8
12.5°	939.8	929.5	873.2	740.4	659.6	608.1	558.0	523.2	503.3	508.8	527.5
15°	934.8	920.8	858.1	723.6	639.0	572.6	517.7	477.7	462.8	474.8	504.8
17.5°	967.3	949.9	883.9	729.1	619.3	536.4	469.1	423.3	410.8	430.0	469.1
20°	1072.1	1046.2	964.7	761.0	617.4	518.4	440.8	394.8	400.0	436.5	477.2
22.5°	1265.7	1226.9	1106.1	807.5	627.5	513.9	435.0	411.1	440.1	471.0	497.8
25°	1304.1	1273.7	1131.5	818.0	625.3	510.8	451.3	463.3	495.7	511.0	501.6
27.5°	1325.7	1290.9	1129.8	765.8	559.2	463.3	431.4	451.3	459.5	444.6	419.2
30°	1376.0	1339.8	1158.4	710.9	460.4	343.7	301.3	293.1	298.6	301.5	292.4
32.5°	1445.3	1409.6	1212.1	674.9	398.1	284.3	242.6	231.1	228.4	225.3	221.7
35°	1534.9	1480.0	1264.8	651.9	372.5	262.9	224.6	215.7	212.1	207.8	204.0
37.5°	1626.0	1568.5	1331.4	627.7	355.4	248.1	212.6	208.5	202.3	197.7	192.2
40°	1722.8	1658.3	1392.1	606.6	338.9	238.5	204.0	203.5	195.3	190.1	183.6
42.5°	1806.7	1740.3	1446.2	593.7	326.2	228.4	198.7	200.1	191.7	183.8	175.4
45°	1873.3	1808.1	1496.3	593.7	315.9	218.3	197.7	196.8	188.4	178.6	169.0
47.5°	1931.8	1864.5	1545.2	608.8	309.4	210.0	192.5	194.1	185.5	173.0	163.7
50°	1977.1	1917.7	1611.1	632.3	303.0	203.2	185.8	194.9	183.1	170.2	159.4
52.5°	2034.9	1981.7	1690.5	664.4	297.4	195.8	179.8	194.9	182.9	170.4	158.7
55°	2114.9	2058.8	1786.1	691.0	288.6	188.9	174.5	189.3	182.2	169.2	156.8
57.5°	2171.0	2129.1	1853.7	708.7	275.9	180.0	169.7	184.1	179.0	164.7	151.0
58°	2173.7	2132.7	1863.5	712.8	272.8	178.3	168.5	181.7	177.6	162.7	149.1
60°	2143.5	2108.2	1865.4	707.1	255.0	169.9	162.3	171.9	169.9	151.5	138.8
62.5°	2033.7	1996.1	1788.0	660.3	231.5	159.6	152.7	158.7	154.4	135.7	123.9
65°	1877.6	1808.4	1628.9	587.0	214.8	148.6	139.7	140.2	135.7	122.2	111.9
67.5°	1669.8	1592.4	1379.1	494.7	202.0	136.4	124.4	123.2	117.7	109.1	100.7
70°	1414.1	1361.1	1120.7	402.4	187.9	123.0	107.1	106.4	103.1	96.6	89.2
72.5°	1146.1	1078.8	905.0	322.1	170.7	110.0	91.1	92.5	88.2	83.6	76.9
75°	845.8	801.7	699.6	258.4	147.4	95.9	76.0	76.5	74.5	69.7	64.5
77.5°	557.0	543.8	500.5	169.7	113.4	76.2	62.1	62.6	61.1	56.8	51.3
80°	374.9	366.0	339.1	109.3	75.7	55.1	47.9	48.4	48.2	43.6	36.2
82.5°	231.1	227.2	218.6	73.8	52.5	39.5	31.6	33.1	35.7	30.7	24.7
85°	109.1	109.3	132.1	40.3	30.9	25.4	17.3	18.5	18.5	18.5	13.9
87.5°	14.1	14.9	18.2	17.0	11.3	9.6	6.2	5.3	4.6	6.0	4.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	911.7	911.7	911.7	911.7	911.7	911.7	911.7	911.7	911.7	911.7	911.7
2.5°	790.9	786.1	775.8	773.4	772.0	776.1	765.3	768.2	763.4	776.8	774.6
5°	662.2	662.7	671.1	676.6	678.5	676.6	669.4	657.0	647.4	643.5	644.5
7.5°	570.7	579.1	593.4	609.5	624.1	628.4	624.4	600.6	574.8	558.5	553.2
10°	540.2	551.5	568.0	580.7	593.7	604.0	606.1	587.7	557.0	518.4	503.3
12.5°	541.9	557.3	573.1	577.1	576.0	580.0	578.1	575.0	554.9	505.7	480.6
15°	526.1	544.3	555.3	553.2	549.3	545.8	540.7	532.8	525.6	491.1	463.3
17.5°	489.7	508.4	517.5	518.2	518.2	517.2	505.0	502.1	501.2	484.4	467.4
20°	496.4	506.7	502.6	495.9	497.8	504.3	497.1	495.7	501.2	508.6	505.5
22.5°	500.2	496.6	465.9	436.2	429.5	449.6	453.7	469.8	492.1	518.9	536.4
25°	476.5	447.5	392.6	359.0	340.1	358.8	383.2	413.0	446.3	480.8	501.2
27.5°	398.3	376.3	337.0	306.8	290.3	293.1	314.0	341.1	372.0	395.2	410.1
30°	300.1	290.3	269.9	259.6	249.5	247.1	256.0	266.3	279.9	282.8	286.7
32.5°	221.0	219.5	220.7	217.4	215.5	215.2	212.6	215.0	216.4	218.1	214.8
35°	199.9	198.0	194.6	193.7	192.5	192.9	191.7	190.5	191.5	192.9	193.9
37.5°	189.1	186.2	181.4	179.8	179.8	180.5	178.6	178.1	179.8	184.3	186.7
40°	180.7	177.4	171.9	169.7	171.1	173.0	170.4	169.5	173.5	178.3	182.2
42.5°	172.8	170.2	164.9	162.5	163.7	167.3	163.5	162.7	168.0	173.3	177.8
45°	166.1	163.5	158.7	157.5	157.9	161.3	158.7	158.7	163.7	169.5	173.5
47.5°	160.8	157.5	154.4	153.4	153.9	155.8	155.3	155.3	160.1	166.1	170.2
50°	155.6	152.7	148.6	149.1	150.3	152.9	152.7	153.4	158.2	165.6	169.9
52.5°	153.2	148.8	144.3	144.8	148.4	151.5	150.5	151.2	156.8	170.7	176.9
55°	150.5	144.8	139.5	140.2	144.3	148.8	147.6	148.6	155.1	174.0	182.6
57.5°	145.5	138.8	133.0	133.5	139.5	144.3	142.4	143.6	151.2	170.4	179.5
58°	143.3	137.6	132.1	132.3	138.1	143.3	141.2	142.1	150.0	169.5	178.1
60°	134.2	130.9	126.1	126.3	131.8	136.4	135.2	136.1	143.8	162.5	169.0
62.5°	121.8	119.8	118.6	118.6	122.0	126.3	127.5	128.7	135.7	146.9	152.7
65°	108.3	108.3	108.6	108.6	110.7	116.2	117.0	120.1	126.6	132.1	136.4
67.5°	99.2	98.7	99.2	98.0	99.0	102.3	105.9	108.8	115.5	119.4	120.8
70°	87.5	87.2	87.5	85.8	87.0	89.9	92.3	97.1	104.0	106.9	107.6
72.5°	76.0	76.0	76.5	75.3	75.3	78.4	80.1	85.3	91.8	93.5	93.7
75°	64.0	64.7	64.7	63.0	63.5	65.4	67.6	71.9	77.9	79.1	79.1
77.5°	50.8	53.4	53.4	51.8	52.5	52.7	55.6	57.8	62.3	62.8	60.9
80°	36.9	39.5	41.7	40.3	41.5	40.0	41.7	43.1	47.7	45.5	42.4
82.5°	26.4	28.3	30.0	30.2	29.0	26.4	28.5	28.8	30.9	28.0	26.4
85°	14.6	16.3	18.5	17.5	15.6	13.9	14.6	15.1	14.9	14.1	13.2
87.5°	3.8	4.1	4.6	3.4	3.1	2.6	3.6	3.6	4.1	4.3	4.1
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	911.7	911.7	911.7	911.7	911.7	911.7	911.7	911.7	911.7	911.7	911.7
2.5°	776.3	786.9	809.6	826.9	848.0	873.6	903.8	934.3	967.1	977.4	991.8
5°	642.3	668.7	679.7	711.1	742.3	789.0	838.9	896.6	959.9	990.4	1019.6
7.5°	548.9	563.0	574.5	597.5	634.9	691.7	754.3	826.4	916.1	960.4	1003.3
10°	498.5	500.0	514.1	542.6	575.2	625.3	684.5	765.3	865.2	919.2	969.5
12.5°	465.2	459.0	474.3	504.0	541.0	587.2	641.6	718.6	828.6	883.9	944.8
15°	436.0	426.2	437.7	468.1	504.5	558.9	617.4	698.9	814.2	878.7	946.3
17.5°	436.7	409.6	413.7	439.3	475.5	530.9	601.8	698.2	836.0	910.3	990.4
20°	490.6	447.2	428.8	433.6	468.6	529.0	609.0	731.7	907.7	1016.0	1101.6
22.5°	543.6	517.5	487.7	477.9	497.1	560.4	654.8	811.1	1063.5	1226.7	1381.3
25°	525.1	547.4	540.0	526.1	530.4	582.9	686.0	876.3	1184.5	1368.3	1513.6
27.5°	420.2	460.7	468.8	468.6	470.3	513.4	616.9	832.4	1199.6	1395.4	1534.2
30°	295.3	298.9	303.2	311.6	319.3	357.8	482.7	730.8	1192.9	1407.6	1546.7
32.5°	213.1	217.9	223.9	235.4	253.6	302.7	422.3	698.4	1228.4	1458.2	1583.1
35°	194.9	200.4	206.1	219.3	236.6	282.1	398.3	685.0	1286.6	1540.2	1648.5
37.5°	189.1	195.3	200.4	210.0	223.9	267.2	376.5	675.9	1346.3	1626.9	1736.2
40°	185.0	192.2	196.3	204.0	213.6	253.6	357.1	668.7	1404.0	1706.3	1806.7
42.5°	181.4	188.9	194.1	199.7	207.6	241.4	339.9	661.5	1454.1	1783.2	1876.9
45°	177.1	186.5	193.2	197.5	204.4	231.1	326.7	655.8	1511.2	1851.5	1947.9
47.5°	173.5	183.8	192.2	197.3	199.9	223.9	316.1	663.7	1579.7	1922.9	2013.8
50°	173.8	183.6	194.1	202.0	195.1	217.9	309.7	695.1	1668.9	2007.8	2065.8
52.5°	181.4	193.4	201.8	203.7	188.4	210.7	306.3	750.0	1774.3	2082.8	2118.3
55°	190.1	202.5	211.6	210.4	184.8	201.6	305.6	808.4	1889.9	2170.3	2186.6
57.5°	187.0	205.2	219.1	212.8	185.0	192.7	302.5	855.7	1986.5	2235.7	2254.2
58°	186.0	204.2	220.0	212.4	184.3	190.1	301.8	859.7	1999.9	2240.3	2263.8
60°	176.6	195.8	219.3	208.8	180.2	182.9	293.8	872.9	1996.3	2216.8	2269.5
62.5°	159.6	175.4	202.8	191.3	167.8	173.3	276.1	856.6	1899.0	2103.7	2185.4
65°	140.5	152.2	170.4	168.3	150.0	163.5	251.9	792.1	1704.1	1920.1	2006.1
67.5°	126.1	135.7	147.2	144.0	134.9	150.3	225.8	683.1	1485.5	1699.6	1807.9
70°	111.5	118.9	124.6	122.5	119.6	137.3	202.5	554.4	1276.1	1490.1	1595.1
72.5°	96.6	103.5	108.3	105.2	103.5	123.7	183.6	430.2	1007.9	1229.3	1364.3
75°	80.8	87.7	91.1	87.5	86.5	109.1	155.6	321.4	756.2	947.7	1064.2
77.5°	62.6	70.0	74.3	73.1	73.6	89.6	125.6	220.0	540.7	645.9	768.7
80°	43.9	52.0	54.9	53.7	57.0	68.3	88.7	139.7	372.9	419.2	505.7
82.5°	27.1	34.8	35.2	36.4	38.8	50.6	66.9	85.1	234.2	242.1	304.9
85°	13.7	16.5	17.7	19.7	21.8	30.9	38.1	52.7	150.8	114.1	170.4
87.5°	4.6	4.8	5.8	7.2	8.9	12.7	16.3	21.6	37.4	20.6	52.7
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°	911.7	911.7	911.7	911.7	911.7	911.7	911.7	911.7	911.7	911.7
2.5°	1020.8	1041.2	1056.0	1069.7	1056.5	1055.3	1042.4	1021.5	1012.9	1012.9
5°	1081.0	1128.7	1167.2	1191.9	1181.4	1156.0	1114.0	1060.6	1031.8	1026.8
7.5°	1097.5	1191.7	1263.4	1288.8	1271.0	1214.9	1134.6	1044.5	1003.3	994.2
10°	1087.4	1209.9	1315.1	1355.4	1330.7	1245.9	1136.3	1025.8	975.0	964.5
12.5°	1076.9	1212.3	1324.7	1383.0	1366.9	1270.8	1148.5	1013.6	954.9	939.8
15°	1084.6	1213.3	1313.0	1373.1	1383.4	1300.7	1168.7	1022.5	950.8	934.8
17.5°	1133.0	1231.5	1296.2	1344.8	1381.0	1341.5	1226.0	1064.9	987.2	967.3
20°	1234.1	1275.1	1305.8	1343.4	1401.6	1424.7	1343.2	1181.4	1089.6	1072.1
22.5°	1527.0	1519.6	1456.8	1456.1	1540.4	1632.7	1627.2	1418.2	1280.1	1265.7
25°	1636.8	1602.3	1511.4	1489.4	1526.5	1668.9	1648.3	1466.6	1339.1	1304.1
27.5°	1593.9	1508.3	1448.6	1443.6	1431.4	1565.8	1615.4	1486.3	1359.7	1325.7
30°	1591.2	1465.4	1380.1	1390.1	1401.9	1530.4	1633.7	1547.9	1412.4	1376.0
32.5°	1597.7	1471.4	1385.1	1387.0	1422.0	1535.6	1653.8	1615.0	1481.7	1445.3
35°	1623.8	1505.4	1417.2	1412.7	1467.3	1570.1	1688.1	1720.4	1576.4	1534.9
37.5°	1666.0	1573.3	1475.9	1474.7	1554.1	1632.5	1730.7	1826.8	1670.6	1626.0
40°	1728.1	1652.6	1580.4	1574.0	1672.0	1733.8	1786.1	1940.2	1780.1	1722.8
42.5°	1803.1	1747.7	1718.3	1743.9	1838.1	1847.7	1872.4	2044.9	1873.3	1806.7
45°	1872.6	1870.0	1911.0	1979.0	2033.9	1976.4	1962.5	2115.2	1945.7	1873.3
47.5°	1955.3	2026.7	2150.4	2250.1	2307.6	2126.2	2039.4	2161.0	1998.4	1931.8
50°	2039.2	2214.4	2411.9	2550.9	2563.1	2288.9	2092.4	2204.1	2046.4	1977.1
52.5°	2127.4	2364.2	2627.1	2788.7	2764.9	2430.6	2143.7	2233.3	2095.8	2034.9
55°	2204.1	2456.0	2747.4	2902.5	2867.8	2516.9	2199.1	2265.0	2166.2	2114.9
57.5°	2247.0	2463.7	2717.5	2852.9	2815.3	2500.1	2224.5	2288.5	2211.3	2171.0
58°	2253.2	2453.4	2690.9	2824.1	2785.8	2486.0	2224.2	2287.5	2214.2	2173.7
60°	2247.7	2386.5	2591.9	2710.5	2670.3	2397.3	2215.1	2269.5	2177.7	2143.5
62.5°	2196.7	2270.5	2421.0	2507.3	2495.8	2258.7	2177.7	2201.7	2066.8	2033.7
65°	2129.6	2112.3	2202.2	2263.3	2271.9	2155.0	2140.6	2055.0	1924.4	1877.6
67.5°	2048.1	1933.0	1932.8	1967.5	1981.9	1995.3	2063.2	1895.6	1719.2	1669.8
70°	1909.8	1656.7	1580.4	1621.4	1609.4	1722.8	1924.9	1671.8	1471.9	1414.1
72.5°	1656.2	1314.6	1192.6	1245.4	1215.2	1351.1	1684.2	1375.8	1217.1	1146.1
75°	1342.4	983.4	857.6	906.0	887.3	1024.9	1401.4	999.2	872.9	845.8
77.5°	1042.4	712.6	639.5	632.8	646.7	762.7	1028.0	674.7	575.5	557.0
80°	669.7	510.0	514.4	505.7	512.9	480.8	624.1	430.5	389.7	374.9
82.5°	440.8	355.4	423.8	391.2	371.5	323.3	409.4	281.9	239.2	231.1
85°	300.3	261.7	238.2	182.2	214.5	249.0	307.0	151.7	120.3	109.1
87.5°	135.7	91.1	66.9	41.2	65.2	75.3	149.1	17.7	13.7	14.1
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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