

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: P652179

Luminaire Tested: **GALN-SA1B-840-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652179
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-SA1B-840-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 800mA 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: 3606.2 lumens
Efficiency: N/A
Efficacy: 82.0 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

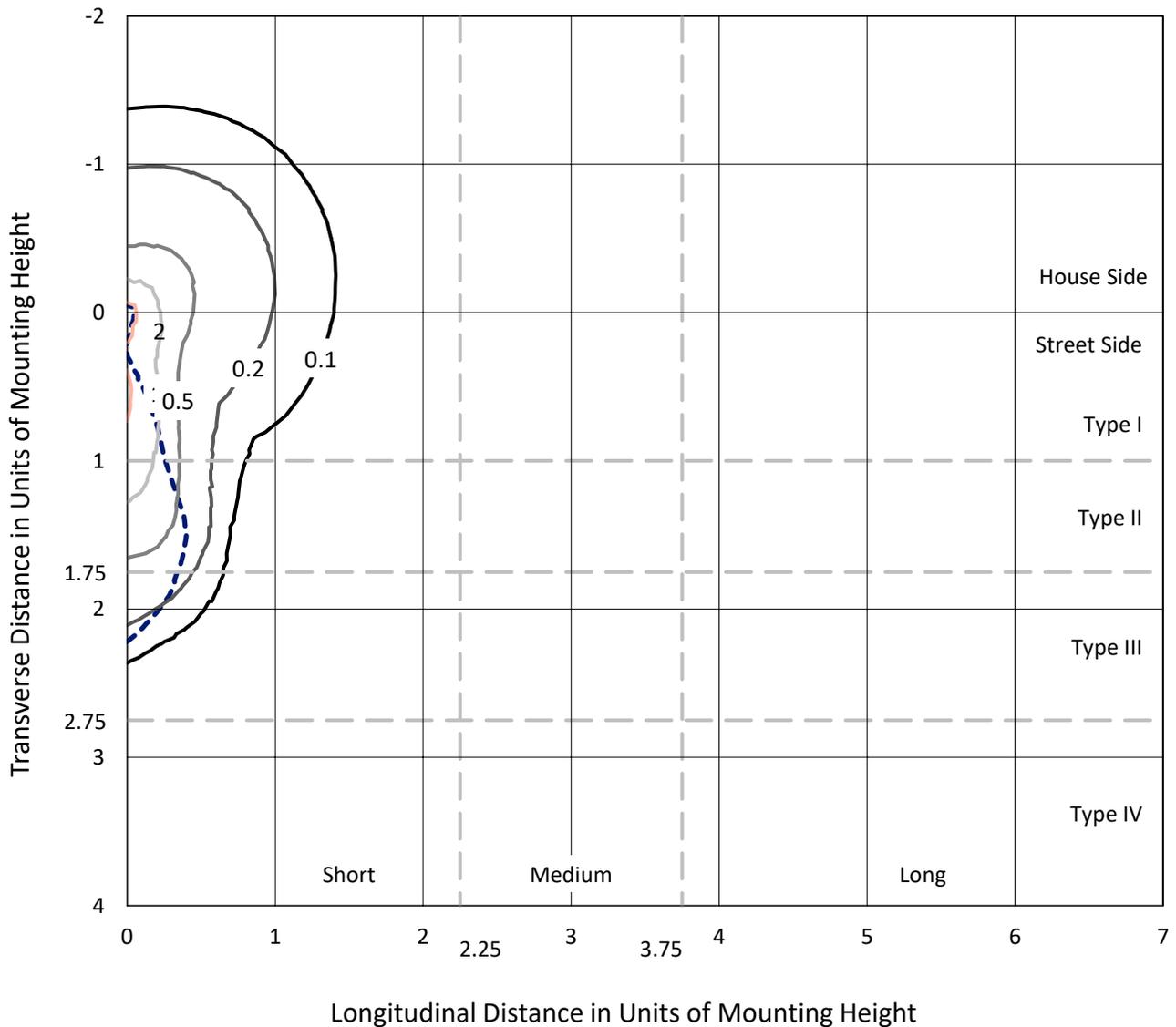
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

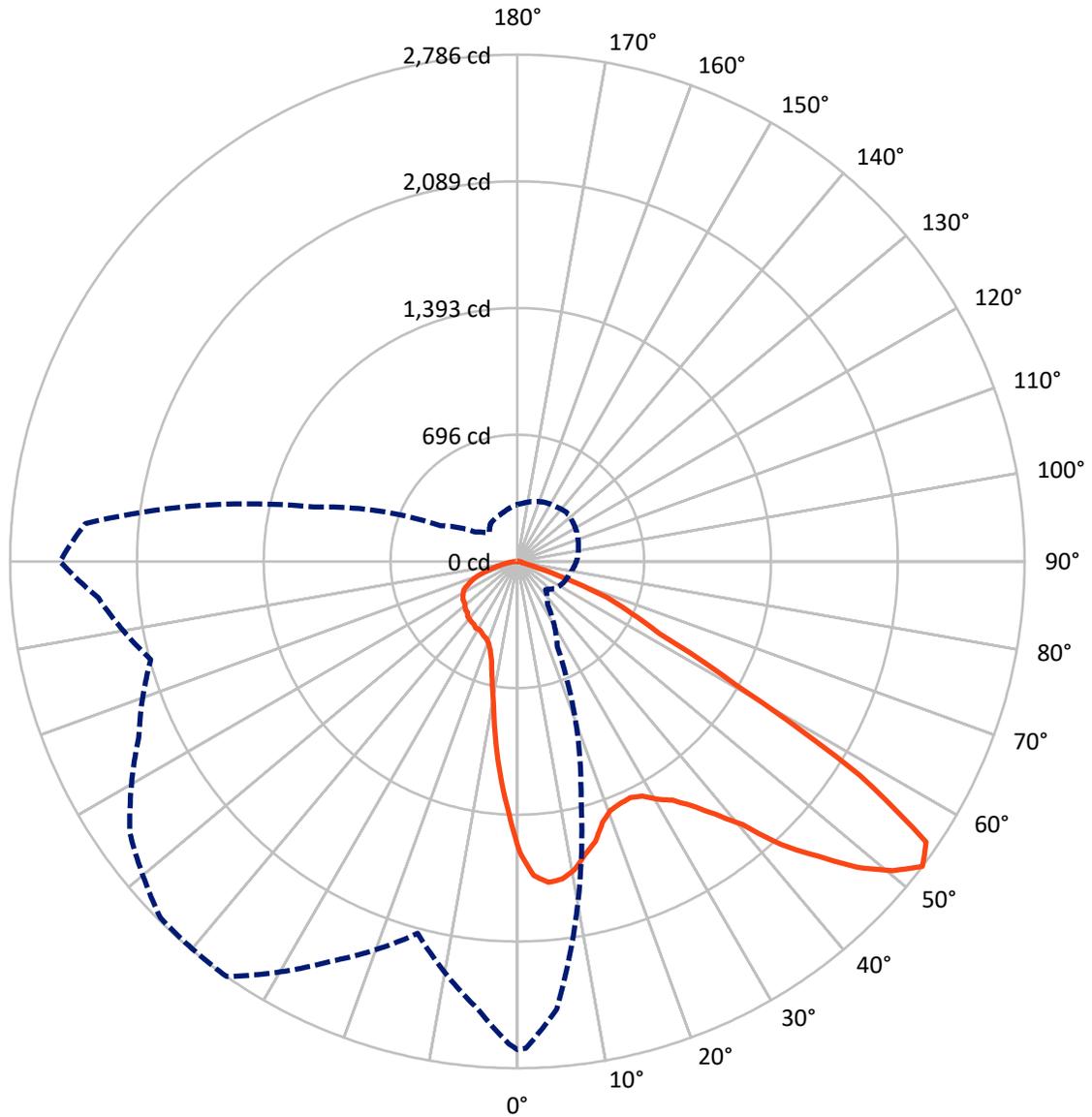
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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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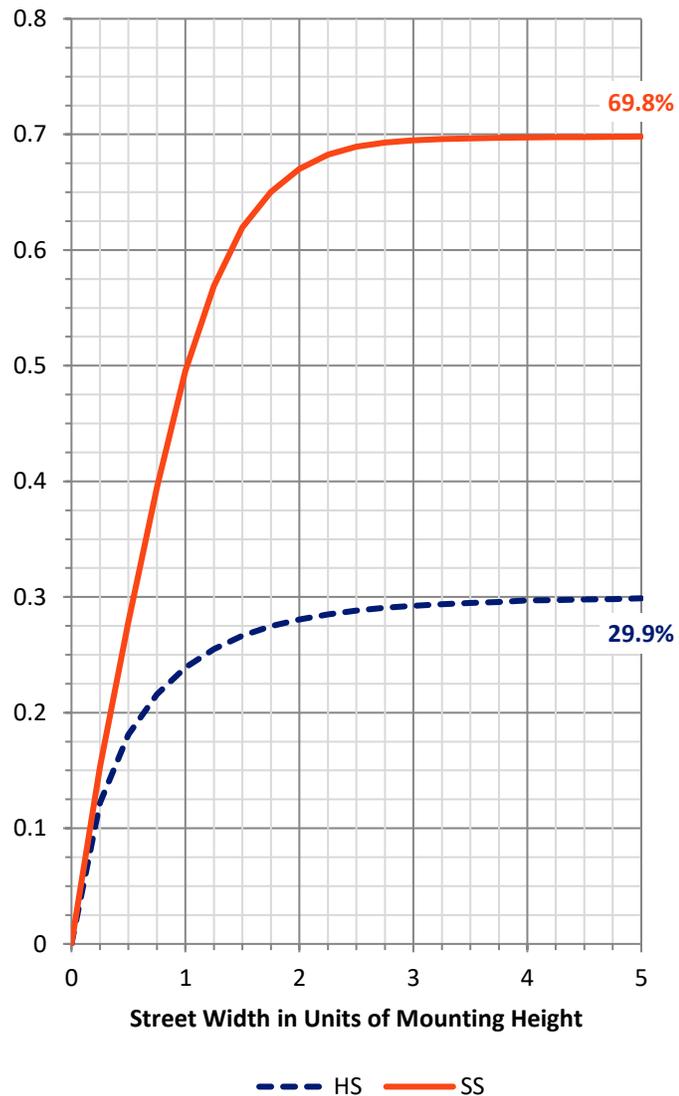
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1087.1	0.0	1087.1
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	2519.1	0.0	2519.1
	% Fixture	69.9	0.0	69.9
Total	Lumens	3606.2	0.0	3606.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.1	3.4
10°-20°	264.7	7.3
20°-30°	399.9	11.1
30°-40°	577.9	16.0
40°-50°	769.1	21.3
50°-60°	860.3	23.9
60°-70°	484.8	13.4
70°-80°	108.1	3.0
80°-90°	19.2	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°	3606.2	100.0
0°-180°	3606.2	100.0

Coefficient of Utilization

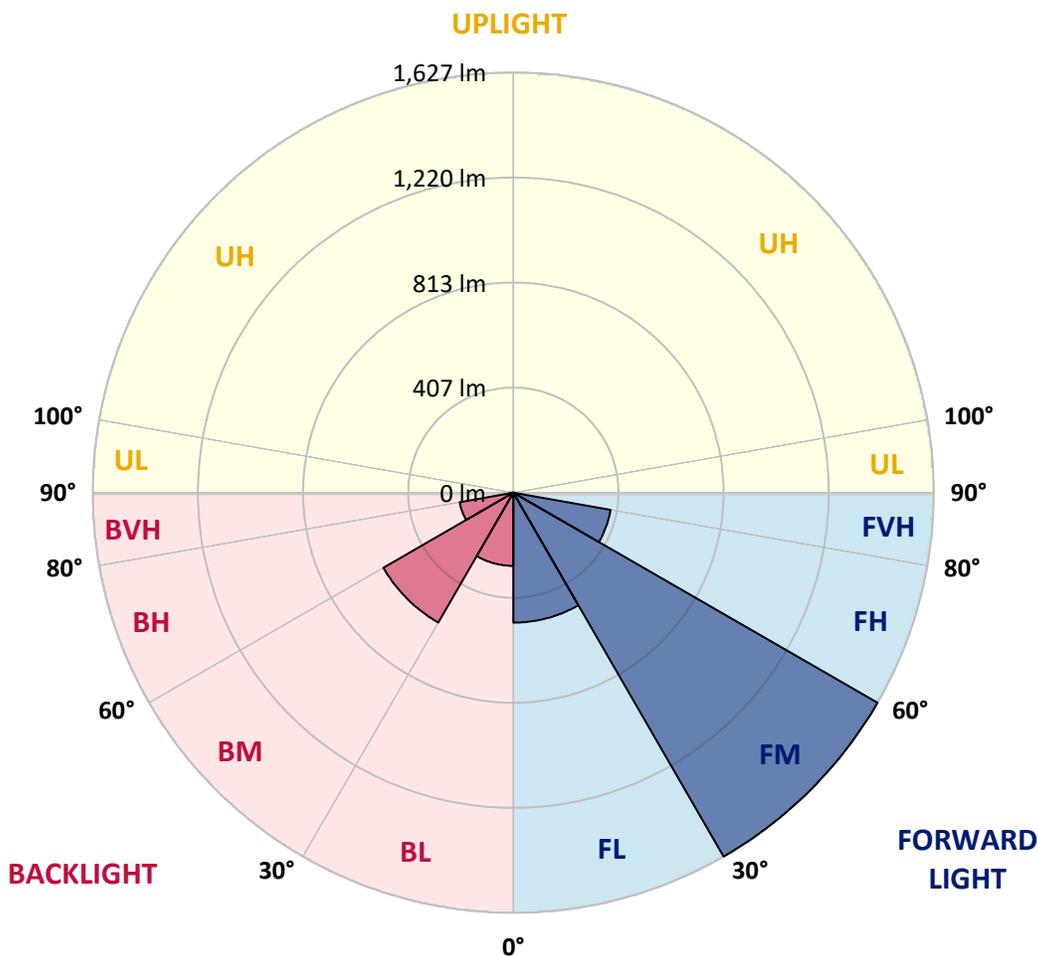


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	503.2	14.0			
FM (30°-60°)	1626.7	45.1			
FH (60°-80°)	382.2	10.6			G0/660
FVH (80°-90°)	7.0	0.2			G0/10
BL (0°-30°)	283.5	7.9	B1/500		
BM (30°-60°)	580.6	16.1	B1/1000		
BH (60°-80°)	210.7	5.8	B1/500		G1/500
BVH (80°-90°)	12.3	0.3			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4
2.5°	1627.1	1653.2	1625.1	1574.9	1539.3	1506.9	1472.9	1466.1	1421.7	1413.9	1381.4
5°	1534.6	1528.9	1494.4	1428.5	1355.9	1290.0	1241.4	1194.3	1162.4	1125.3	1122.7
7.5°	1422.2	1388.7	1368.9	1269.1	1179.2	1075.7	1031.2	959.7	937.2	903.7	886.5
10°	1321.9	1297.3	1250.8	1150.9	1025.5	957.1	909.5	870.8	844.6	810.1	766.7
12.5°	1272.2	1262.3	1210.0	1055.3	962.3	889.1	855.6	818.0	773.6	718.1	696.8
15°	1281.1	1247.6	1207.9	1037.0	908.4	837.9	784.6	737.5	680.5	627.7	596.9
17.5°	1347.5	1321.9	1242.4	1048.5	888.0	786.1	689.5	619.9	568.7	521.1	499.7
20°	1478.1	1441.1	1351.7	1063.1	844.1	714.0	603.2	517.5	462.6	437.5	430.2
22.5°	1623.0	1601.0	1458.3	1096.1	809.1	647.1	511.7	426.0	405.6	398.8	412.4
25°	1799.1	1742.1	1624.0	1149.9	782.0	590.1	434.4	386.8	376.3	383.2	398.8
27.5°	1932.9	1917.7	1740.0	1200.6	744.8	521.7	391.0	359.6	362.7	369.5	384.2
30°	2091.8	2015.0	1852.4	1235.6	711.4	474.6	360.6	352.3	355.4	366.9	374.2
32.5°	2187.4	2158.7	1922.9	1288.4	672.7	433.8	337.2	329.3	334.0	351.2	368.5
35°	2309.2	2252.3	2010.2	1302.0	645.6	417.6	320.4	314.6	325.6	337.7	357.0
37.5°	2451.3	2412.2	2131.0	1292.6	630.9	400.9	306.3	303.7	311.5	328.2	350.7
40°	2535.5	2523.5	2194.3	1298.3	607.9	386.3	290.1	293.3	309.4	322.5	344.5
42.5°	2616.5	2538.1	2287.8	1296.2	593.2	366.4	291.7	288.0	300.6	315.7	336.6
45°	2634.3	2556.5	2309.7	1281.6	575.5	347.1	279.6	281.2	296.4	315.2	328.7
47.5°	2622.8	2565.3	2350.5	1277.5	558.8	333.5	261.9	280.6	289.6	304.7	324.0
50°	2615.0	2611.8	2385.0	1297.3	536.3	312.0	240.4	273.9	282.7	298.0	318.8
52.5°	2684.0	2677.2	2471.3	1349.6	518.5	289.1	218.5	256.7	278.0	292.7	313.1
55°	2725.8	2696.0	2619.1	1413.9	488.7	258.7	203.4	235.2	266.6	279.6	300.6
57.5°	2451.9	2431.5	2369.3	1319.8	438.5	219.0	184.5	213.3	250.9	271.3	292.7
60°	2040.0	2008.1	1848.8	1121.6	323.5	170.4	173.0	196.0	246.7	254.6	279.6
62.5°	1923.5	1844.6	1627.7	902.6	248.3	146.3	155.2	180.3	224.7	237.8	262.9
65°	1526.2	1467.7	1164.5	651.8	166.2	127.0	141.6	162.6	193.9	219.5	242.5
67.5°	955.5	899.5	621.5	308.4	116.1	108.7	126.5	148.4	174.1	197.0	222.7
70°	499.1	438.0	286.9	111.3	80.0	88.9	105.5	126.5	151.5	170.4	190.2
72.5°	186.1	151.0	93.5	48.1	55.4	68.0	85.7	100.8	118.7	141.6	152.6
75°	28.8	24.6	24.1	29.3	37.6	49.1	61.1	76.3	92.0	106.6	114.0
77.5°	13.6	13.0	14.6	19.3	25.1	35.0	44.4	59.0	71.6	81.0	85.2
80°	8.9	8.3	9.4	13.0	18.8	26.2	35.6	45.5	56.9	64.8	63.7
82.5°	5.2	5.7	5.7	8.9	13.0	18.8	25.7	34.5	42.3	49.1	44.9
85°	3.1	2.6	2.6	5.2	8.9	15.1	21.4	14.6	15.1	15.1	17.2
87.5°	1.0	1.0	1.0	0.5	1.0	1.0	1.6	2.6	3.1	3.7	4.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4
2.5°	1380.4	1396.6	1390.8	1370.5	1386.1	1388.7	1378.3	1414.4	1421.2	1410.2	1413.3
5°	1119.0	1123.2	1132.7	1152.5	1166.6	1183.4	1183.4	1184.4	1170.3	1205.8	1195.4
7.5°	871.9	874.5	885.4	927.8	939.8	971.7	985.2	975.8	947.6	935.6	945.5
10°	752.7	737.5	733.9	739.1	766.2	779.9	791.4	788.2	783.5	774.1	763.6
12.5°	673.2	662.2	653.4	640.8	642.4	655.5	664.3	657.0	659.1	661.2	664.3
15°	586.9	579.1	574.4	555.6	553.5	562.4	565.6	569.7	577.6	578.1	574.4
17.5°	495.5	488.7	499.1	509.6	502.3	502.8	508.6	512.3	510.2	500.7	496.0
20°	432.8	440.1	450.5	460.4	468.4	473.1	475.1	469.4	462.6	443.2	442.7
22.5°	414.5	423.9	432.8	447.9	455.2	467.3	456.3	443.2	433.8	424.5	413.4
25°	400.9	408.7	426.5	432.3	446.4	456.3	448.4	435.4	419.2	405.6	397.2
27.5°	391.0	399.8	411.3	427.1	438.0	443.8	435.9	430.7	413.9	397.8	385.8
30°	384.7	394.1	415.0	428.1	437.5	442.2	428.6	422.4	410.3	396.7	386.3
32.5°	380.6	388.9	406.6	423.4	429.7	429.7	431.8	424.5	407.7	384.7	375.8
35°	366.9	378.4	393.1	412.4	423.9	430.7	420.2	411.8	400.9	377.4	361.2
37.5°	359.1	366.9	385.8	404.0	413.9	421.3	417.1	402.5	387.9	368.5	355.4
40°	350.7	363.2	380.0	397.2	408.2	415.5	412.4	395.2	377.4	359.1	350.2
42.5°	345.0	353.3	370.5	389.9	403.0	417.1	407.7	386.3	373.7	348.6	338.7
45°	340.3	353.9	372.1	380.0	393.6	408.2	391.5	378.4	363.8	345.5	337.2
47.5°	334.5	347.1	359.1	380.0	386.3	393.1	389.9	369.0	356.5	336.6	330.8
50°	332.4	337.2	359.1	370.5	379.5	386.3	377.9	362.2	350.2	329.8	317.3
52.5°	324.0	333.0	347.1	362.2	373.2	381.6	367.9	358.0	341.9	320.4	312.6
55°	313.6	318.8	343.9	359.6	365.3	371.1	365.9	349.7	333.0	311.0	303.2
57.5°	300.0	312.0	332.4	354.4	361.7	364.8	356.5	343.4	322.5	303.2	290.6
60°	285.9	298.5	320.9	338.7	346.0	357.5	345.0	337.2	313.1	291.7	278.0
62.5°	271.8	285.9	302.6	325.1	331.4	336.1	333.0	321.9	302.6	278.6	261.9
65°	255.1	265.5	286.4	298.0	302.1	313.1	302.1	298.0	280.6	257.7	243.6
67.5°	230.0	238.8	257.2	268.1	271.3	276.0	275.4	270.7	251.4	235.7	223.2
70°	201.3	209.1	220.6	233.6	235.2	240.9	235.7	234.7	222.1	200.7	193.9
72.5°	161.5	168.8	184.0	189.7	190.2	192.3	189.7	186.1	182.9	160.5	153.7
75°	123.9	128.1	135.4	140.6	140.6	143.2	141.6	138.0	129.6	115.6	108.7
77.5°	86.2	90.4	99.8	102.9	102.4	103.5	98.8	95.1	82.6	75.3	69.6
80°	62.7	65.3	70.1	72.2	72.7	74.3	68.5	65.3	58.0	49.6	47.0
82.5°	45.5	47.0	47.6	50.2	50.2	47.6	46.0	42.9	37.6	32.4	30.3
85°	18.8	19.3	19.8	23.0	23.5	28.3	26.2	24.6	21.4	18.3	16.7
87.5°	4.7	5.2	6.8	5.7	6.8	6.8	7.3	8.3	8.3	6.8	6.8
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4
2.5°	1425.3	1429.5	1482.9	1489.7	1515.8	1542.5	1596.3	1635.0	1666.4	1686.7	1692.4
5°	1206.3	1233.0	1257.5	1297.3	1333.4	1384.6	1443.7	1516.8	1608.8	1655.8	1674.7
7.5°	944.5	975.8	1011.4	1050.1	1102.9	1194.9	1273.8	1358.5	1476.0	1524.6	1598.4
10°	770.9	806.0	853.0	882.8	946.5	1034.4	1126.4	1224.2	1336.5	1406.6	1491.8
12.5°	681.5	710.3	753.7	816.4	864.0	921.0	989.4	1112.8	1273.8	1340.1	1398.7
15°	582.8	614.7	664.9	734.4	791.4	859.3	936.1	1070.4	1241.9	1344.3	1394.0
17.5°	501.2	524.3	577.0	637.1	702.5	776.7	887.0	1068.4	1275.4	1406.6	1487.6
20°	444.8	447.9	476.7	527.9	616.8	713.5	856.6	1057.9	1382.5	1513.7	1616.1
22.5°	409.2	406.1	406.6	450.0	512.3	651.3	809.1	1093.5	1504.3	1684.1	1753.1
25°	391.5	383.2	377.9	387.3	443.8	577.6	773.0	1140.5	1635.5	1824.7	1909.3
27.5°	382.1	367.4	357.0	358.6	399.8	540.4	750.6	1160.9	1765.6	2020.7	2050.5
30°	378.4	360.1	345.0	339.8	366.9	488.7	702.5	1195.9	1882.2	2128.4	2154.0
32.5°	365.3	342.9	328.2	323.5	334.5	443.2	668.0	1221.0	1985.2	2245.5	2236.6
35°	350.2	331.4	313.1	304.2	312.0	413.9	640.3	1208.9	2106.5	2336.4	2331.7
37.5°	348.6	324.0	308.9	294.3	293.8	377.9	602.7	1220.5	2183.7	2499.5	2435.2
40°	335.1	319.3	299.5	287.5	280.6	359.6	566.1	1193.3	2297.2	2565.3	2502.1
42.5°	335.6	312.0	294.8	280.6	273.9	333.0	541.0	1186.0	2336.9	2672.4	2533.4
45°	327.2	304.2	289.6	272.8	269.2	312.6	517.0	1152.0	2406.9	2677.7	2494.2
47.5°	318.8	298.5	282.7	262.9	254.6	305.3	498.1	1123.7	2370.4	2628.5	2439.9
50°	313.1	289.6	274.9	260.8	237.3	292.7	473.6	1117.0	2319.1	2562.2	2339.0
52.5°	303.2	282.2	267.1	256.1	218.5	281.2	464.1	1156.7	2381.9	2512.6	2309.7
55°	293.8	272.3	253.0	231.5	202.8	250.9	438.0	1193.8	2473.3	2627.0	2442.5
57.5°	283.8	263.4	242.5	216.9	187.6	219.5	410.8	1200.6	2301.9	2427.9	2318.6
60°	270.7	244.6	228.9	195.4	171.5	181.9	325.6	1058.4	1785.5	2027.5	2031.2
62.5°	256.1	227.9	214.3	175.1	154.7	156.8	265.5	889.6	1448.4	1678.3	1778.2
65°	236.7	209.6	193.4	162.1	142.7	135.9	194.4	651.8	1100.3	1361.6	1475.0
67.5°	211.7	186.1	165.7	141.1	127.5	116.6	132.8	366.9	649.7	914.2	948.6
70°	185.0	163.1	141.6	121.3	106.1	98.2	97.2	162.6	310.5	491.8	559.8
72.5°	145.8	130.2	112.9	97.7	87.8	76.3	69.6	67.4	105.0	200.2	276.5
75°	104.5	91.5	81.6	71.6	64.3	58.0	52.8	48.1	43.9	50.2	69.0
77.5°	65.9	61.1	53.3	50.7	46.5	44.9	42.9	40.3	37.1	35.0	35.0
80°	44.4	41.3	38.7	38.2	36.6	36.1	36.6	34.0	30.9	28.3	29.3
82.5°	29.8	29.3	28.8	28.3	28.8	29.3	30.3	29.8	27.2	25.7	26.2
85°	17.7	18.8	19.8	20.9	23.0	20.4	16.7	14.1	12.5	11.5	11.0
87.5°	6.8	9.4	8.3	7.8	8.3	7.8	7.3	6.8	5.7	5.2	5.2
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°	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4	1600.4
2.5°	1730.6	1741.0	1750.0	1747.9	1729.6	1705.0	1695.0	1644.3	1633.9	1627.1
5°	1754.2	1814.8	1827.8	1820.0	1772.4	1712.3	1653.7	1579.6	1536.2	1534.6
7.5°	1710.8	1785.5	1809.0	1826.8	1763.5	1659.0	1558.6	1447.3	1420.1	1422.2
10°	1600.4	1719.6	1777.6	1796.0	1723.3	1632.9	1493.9	1380.9	1322.9	1321.9
12.5°	1539.3	1632.9	1649.0	1674.7	1653.2	1561.7	1456.2	1329.7	1273.3	1272.2
15°	1485.0	1546.6	1551.3	1587.4	1598.9	1537.2	1466.1	1331.3	1285.8	1281.1
17.5°	1532.5	1489.7	1471.9	1476.5	1510.5	1533.1	1523.6	1420.1	1373.6	1347.5
20°	1564.4	1468.7	1414.9	1420.1	1460.4	1542.5	1609.3	1548.7	1475.0	1478.1
22.5°	1649.6	1471.9	1387.7	1382.0	1445.8	1591.6	1706.1	1711.3	1640.2	1623.0
25°	1777.1	1507.9	1379.3	1377.8	1439.0	1644.3	1818.9	1903.6	1830.9	1799.1
27.5°	1879.6	1564.4	1405.5	1410.7	1460.4	1687.2	1915.1	2027.5	1972.1	1932.9
30°	1969.5	1623.0	1442.1	1418.0	1517.8	1709.7	1956.4	2168.6	2124.2	2091.8
32.5°	2006.5	1706.1	1500.1	1460.4	1565.4	1736.9	2042.1	2305.5	2267.4	2187.4
35°	2069.3	1752.6	1531.5	1528.3	1648.5	1802.2	2082.4	2396.0	2380.3	2309.2
37.5°	2119.5	1799.6	1642.8	1608.3	1762.5	1912.0	2147.2	2520.9	2484.8	2451.3
40°	2158.2	1883.8	1746.8	1792.3	1902.6	2011.8	2206.8	2528.7	2632.8	2535.5
42.5°	2122.6	1959.0	1917.7	2026.5	2131.0	2125.8	2213.6	2589.4	2667.2	2616.5
45°	2113.8	2086.5	2187.9	2286.8	2310.8	2220.3	2165.0	2522.5	2656.8	2634.3
47.5°	2092.3	2212.0	2388.7	2549.7	2513.1	2283.6	2107.0	2510.5	2663.1	2622.8
50°	2085.0	2239.2	2537.1	2693.9	2671.9	2338.5	2079.8	2433.1	2618.6	2615.0
52.5°	2084.5	2295.1	2598.8	2772.3	2785.9	2425.3	2116.9	2472.3	2653.1	2684.0
55°	2108.0	2277.3	2591.0	2729.0	2723.7	2386.6	2121.1	2498.4	2695.5	2725.8
57.5°	1988.3	2040.0	2138.3	2247.6	2219.3	1976.8	1894.2	2309.7	2473.9	2451.9
60°	1717.0	1555.0	1444.2	1439.0	1384.0	1308.3	1550.3	2061.5	2061.5	2040.0
62.5°	1503.8	1020.8	877.1	836.3	875.5	962.8	1495.4	2005.0	1948.0	1923.5
65°	1315.1	779.4	634.0	622.5	690.5	822.2	1352.2	1708.2	1607.7	1526.2
67.5°	846.2	570.8	471.5	451.1	533.1	603.7	900.0	1050.6	987.3	955.5
70°	545.6	371.6	262.4	246.2	278.0	372.1	575.0	612.6	520.6	499.1
72.5°	258.2	160.5	92.0	75.8	85.2	142.1	227.4	244.6	203.4	186.1
75°	82.1	59.0	37.6	32.4	30.9	36.6	52.3	40.3	29.3	28.8
77.5°	36.6	35.0	29.8	25.1	22.0	18.3	15.1	12.5	13.0	13.6
80°	30.3	27.7	24.6	22.0	18.3	14.1	11.0	8.3	8.3	8.9
82.5°	26.7	24.1	21.4	18.3	15.6	11.5	8.3	5.7	5.2	5.2
85°	11.5	13.6	14.6	15.6	12.5	9.4	5.7	3.7	3.1	3.1
87.5°	4.7	4.2	3.7	3.1	2.6	2.6	2.1	1.6	1.0	1.0
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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