

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: P526938

Luminaire Tested: **GALN-SA1D-830-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526938
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-SA1D-830-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA 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: 4633 lumens
Efficiency: N/A
Efficacy: 71.3 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): 65
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



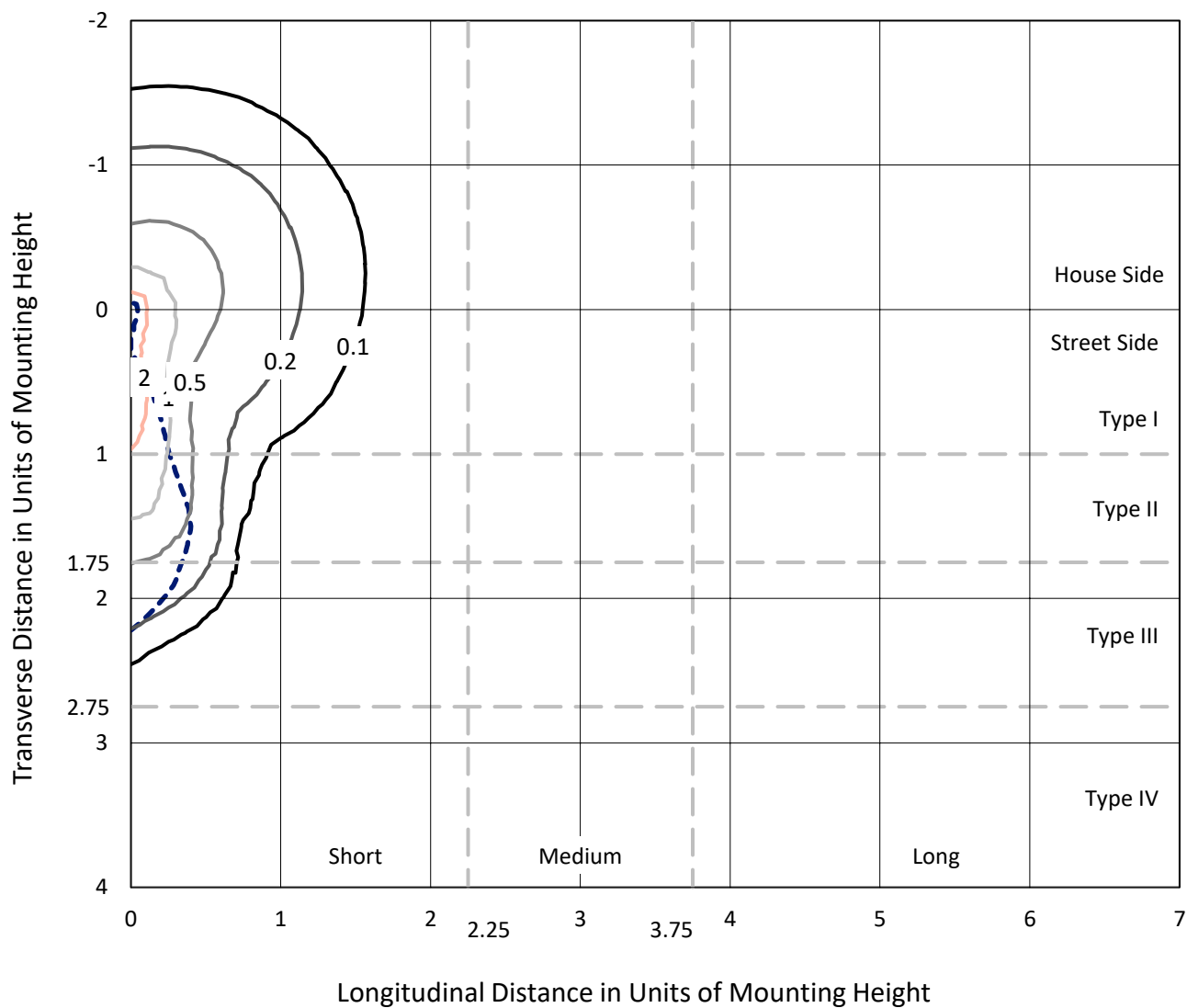
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

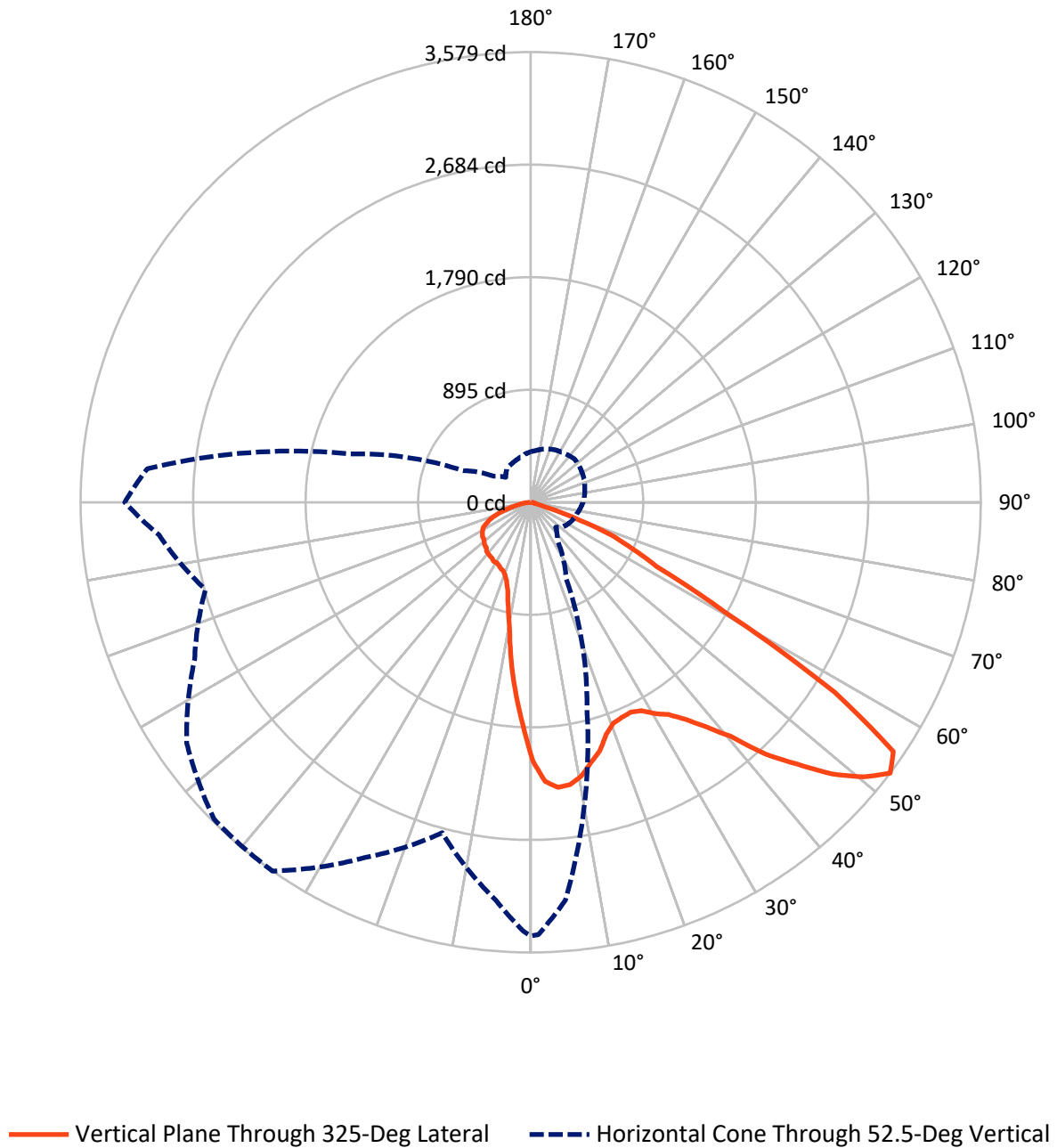


Based on 25 foot mounting height. Maximum calculated value = 3.3 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1396.7	0.0	1396.7
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	3236.3	0.0	3236.3
	% Fixture	69.9	0.0	69.9
Total	Lumens	4633.0	0.0	4633.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.9	3.4
10°-20°	340.1	7.3
20°-30°	513.8	11.1
30°-40°	742.5	16.0
40°-50°	988.1	21.3
50°-60°	1105.2	23.9
60°-70°	622.9	13.4
70°-80°	138.9	3.0
80°-90°	24.7	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°	4633.0	100.0
0°-180°	4633.0	100.0

Coefficient of Utilization



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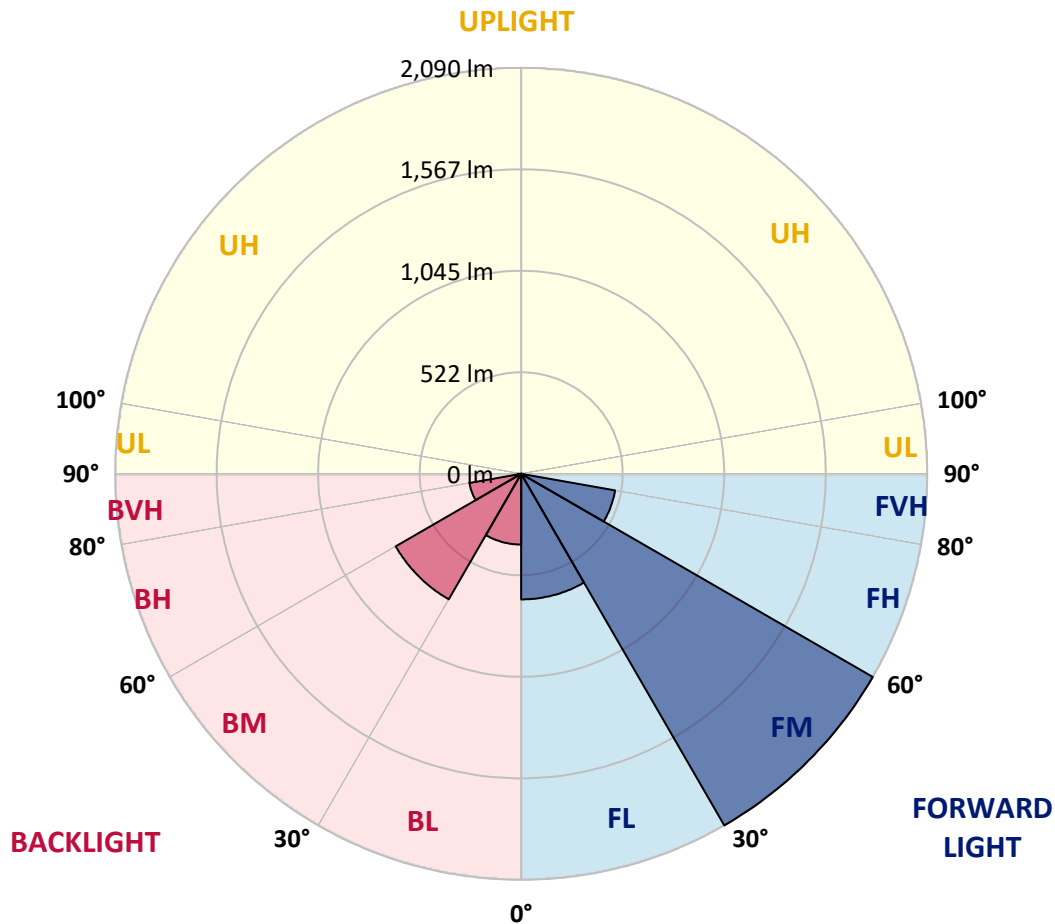
CATALOG NUMBER: GALN-SA1D-830-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	646.5	14.0			
FM	(30°-60°)	2089.8	45.1			
FH	(60°-80°)	491.0	10.6			G0/660
FVH	(80°-90°)	9.0	0.2			G0/10
BL	(0°-30°)	364.2	7.9	B1/500		
BM	(30°-60°)	746.0	16.1	B1/1000		
BH	(60°-80°)	270.7	5.8	B1/500		G1/500
BVH	(80°-90°)	15.8	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°	2056.2	2056.2	2056.2	2056.2	2056.2	2056.2	2056.2	2056.2	2056.2	2056.2	2056.2
2.5°	2090.4	2124.0	2087.7	2023.3	1977.6	1936.0	1892.3	1883.6	1826.5	1816.4	1774.8
5°	1971.5	1964.2	1919.8	1835.2	1741.9	1657.3	1594.8	1534.4	1493.4	1445.8	1442.4
7.5°	1827.2	1784.2	1758.7	1630.4	1514.9	1382.0	1324.9	1232.9	1204.0	1161.0	1138.9
10°	1698.2	1666.7	1606.9	1478.7	1317.5	1229.5	1168.4	1118.7	1085.2	1040.8	985.1
12.5°	1634.4	1621.7	1554.5	1355.8	1236.2	1142.2	1099.3	1050.9	993.8	922.7	895.1
15°	1645.9	1602.9	1551.9	1332.3	1167.1	1076.4	1007.9	947.5	874.3	806.5	766.9
17.5°	1731.1	1698.2	1596.2	1347.0	1140.9	1009.9	885.7	796.4	730.6	669.5	642.0
20°	1899.0	1851.3	1736.5	1365.8	1084.5	917.3	774.9	664.8	594.3	562.1	552.7
22.5°	2085.0	2056.8	1873.5	1408.1	1039.5	831.3	657.4	547.3	521.1	512.4	529.8
25°	2311.3	2238.1	2086.4	1477.3	1004.6	758.1	558.0	496.9	483.5	492.2	512.4
27.5°	2483.2	2463.8	2235.4	1542.5	956.9	670.2	502.3	462.0	466.0	474.8	493.6
30°	2687.4	2588.7	2379.8	1587.4	913.9	609.7	463.3	452.6	456.6	471.4	480.8
32.5°	2810.3	2773.3	2470.5	1655.3	864.2	557.4	433.1	423.0	429.1	451.3	473.4
35°	2966.7	2893.5	2582.6	1672.7	829.3	536.5	411.6	404.2	418.3	433.8	458.6
37.5°	3149.4	3099.0	2737.7	1660.6	810.5	515.0	393.5	390.1	400.2	421.7	450.6
40°	3257.5	3242.0	2819.0	1668.0	781.0	496.2	372.7	376.7	397.5	414.3	442.5
42.5°	3361.6	3260.8	2939.2	1665.3	762.2	470.7	374.7	370.0	386.1	405.6	432.5
45°	3384.4	3284.3	2967.4	1646.5	739.3	445.9	359.3	361.3	380.7	404.9	422.4
47.5°	3369.6	3295.8	3019.8	1641.2	717.8	428.4	336.4	360.6	372.0	391.5	416.3
50°	3359.5	3355.5	3064.1	1666.7	689.0	400.9	308.9	351.9	363.3	382.8	409.6
52.5°	3448.2	3439.5	3174.9	1733.8	666.1	371.3	280.7	329.7	357.2	376.0	402.2
55°	3501.9	3463.6	3364.9	1816.4	627.9	332.4	261.2	302.2	342.5	359.3	386.1
57.5°	3150.0	3123.8	3043.9	1695.6	563.4	281.4	237.0	274.0	322.3	348.5	376.0
60°	2620.9	2579.9	2375.1	1441.1	415.7	218.9	222.3	251.8	317.0	327.0	359.3
62.5°	2471.1	2369.7	2091.1	1159.7	319.0	188.0	199.4	231.7	288.7	305.5	337.8
65°	1960.8	1885.6	1496.1	837.4	213.5	163.2	182.0	208.8	249.1	282.0	311.6
67.5°	1227.5	1155.7	798.4	396.2	149.1	139.7	162.5	190.7	223.6	253.2	286.1
70°	641.3	562.7	368.7	143.0	102.7	114.2	135.6	162.5	194.7	218.9	244.4
72.5°	239.1	194.1	120.2	61.8	71.2	87.3	110.1	129.6	152.4	182.0	196.1
75°	36.9	31.6	30.9	37.6	48.3	63.1	78.6	98.0	118.2	137.0	146.4
77.5°	17.5	16.8	18.8	24.8	32.2	45.0	57.1	75.9	92.0	104.1	109.5
80°	11.4	10.7	12.1	16.8	24.2	33.6	45.7	58.4	73.2	83.3	81.9
82.5°	6.7	7.4	7.4	11.4	16.8	24.2	32.9	44.3	54.4	63.1	57.7
85°	4.0	3.4	3.4	6.7	11.4	19.5	27.5	18.8	19.5	19.5	22.2
87.5°	1.3	1.3	1.3	0.7	1.3	1.3	2.0	3.4	4.0	4.7	6.0
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°	2056.2	2056.2	2056.2	2056.2	2056.2	2056.2	2056.2	2056.2	2056.2	2056.2	2056.2
2.5°	1773.4	1794.3	1786.9	1760.7	1780.8	1784.2	1770.8	1817.1	1825.8	1811.7	1815.8
5°	1437.7	1443.1	1455.2	1480.7	1498.8	1520.3	1520.3	1521.6	1503.5	1549.2	1535.7
7.5°	1120.1	1123.4	1137.5	1191.9	1207.4	1248.3	1265.8	1253.7	1217.4	1202.0	1214.8
10°	967.0	947.5	942.8	949.5	984.4	1001.9	1016.7	1012.6	1006.6	994.5	981.1
12.5°	864.9	850.8	839.4	823.3	825.3	842.1	853.5	844.1	846.8	849.5	853.5
15°	754.1	744.0	738.0	713.8	711.1	722.5	726.6	731.9	742.0	742.7	738.0
17.5°	636.6	627.9	641.3	654.7	645.3	646.0	653.4	658.1	655.4	643.3	637.3
20°	556.0	565.4	578.8	591.6	601.7	607.7	610.4	603.0	594.3	569.4	568.8
22.5°	532.5	544.6	556.0	575.5	584.9	600.3	586.2	569.4	557.4	545.3	531.2
25°	515.0	525.1	547.9	555.3	573.5	586.2	576.2	559.4	538.5	521.1	510.3
27.5°	502.3	513.7	528.5	548.6	562.7	570.1	560.0	553.3	531.8	511.0	495.6
30°	494.2	506.3	533.2	550.0	562.1	568.1	550.6	542.6	527.1	509.7	496.2
32.5°	488.9	499.6	522.4	543.9	552.0	552.0	554.7	545.3	523.8	494.2	482.8
35°	471.4	486.2	505.0	529.8	544.6	553.3	539.9	529.1	515.0	484.8	464.0
37.5°	461.3	471.4	495.6	519.1	531.8	541.2	535.9	517.1	498.3	473.4	456.6
40°	450.6	466.7	488.2	510.3	524.4	533.8	529.8	507.7	484.8	461.3	449.9
42.5°	443.2	453.9	476.1	500.9	517.7	535.9	523.8	496.2	480.1	447.9	435.1
45°	437.2	454.6	478.1	488.2	505.6	524.4	503.0	486.2	467.4	443.9	433.1
47.5°	429.8	445.9	461.3	488.2	496.2	505.0	500.9	474.1	458.0	432.5	425.1
50°	427.1	433.1	461.3	476.1	487.5	496.2	485.5	465.4	449.9	423.7	407.6
52.5°	416.3	427.7	445.9	465.4	479.5	490.2	472.7	460.0	439.2	411.6	401.6
55°	402.9	409.6	441.9	462.0	469.4	476.8	470.1	449.2	427.7	399.5	389.5
57.5°	385.4	400.9	427.1	455.3	464.7	468.7	458.0	441.2	414.3	389.5	373.4
60°	367.3	383.4	412.3	435.1	444.5	459.3	443.2	433.1	402.2	374.7	357.2
62.5°	349.2	367.3	388.8	417.7	425.7	431.8	427.7	413.6	388.8	357.9	336.4
65°	327.7	341.1	368.0	382.8	388.1	402.2	388.1	382.8	360.6	331.1	312.9
67.5°	295.5	306.9	330.4	344.5	348.5	354.6	353.9	347.8	323.0	302.8	286.7
70°	258.5	268.6	283.4	300.2	302.2	309.6	302.8	301.5	285.4	257.9	249.1
72.5°	207.5	216.9	236.4	243.8	244.4	247.1	243.8	239.1	235.0	206.2	197.4
75°	159.1	164.5	173.9	180.6	180.6	184.0	182.0	177.3	166.5	148.4	139.7
77.5°	110.8	116.2	128.3	132.3	131.6	133.0	126.9	122.2	106.1	96.7	89.3
80°	80.6	83.9	90.0	92.7	93.3	95.4	88.0	83.9	74.5	63.8	60.4
82.5°	58.4	60.4	61.1	64.5	64.5	61.1	59.1	55.1	48.3	41.6	38.9
85°	24.2	24.8	25.5	29.5	30.2	36.3	33.6	31.6	27.5	23.5	21.5
87.5°	6.0	6.7	8.7	7.4	8.7	8.7	9.4	10.7	10.7	8.7	8.7
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2056.2	2056.2	2056.2	2056.2	2056.2	2056.2	2056.2	2056.2	2056.2	2056.2	2056.2
2.5°	1831.2	1836.6	1905.1	1913.8	1947.4	1981.6	2050.8	2100.5	2140.8	2167.0	2174.3
5°	1549.8	1584.1	1615.6	1666.7	1713.0	1778.8	1854.7	1948.7	2066.9	2127.3	2151.5
7.5°	1213.4	1253.7	1299.4	1349.1	1416.9	1535.1	1636.5	1745.2	1896.3	1958.8	2053.5
10°	990.5	1035.5	1095.9	1134.2	1216.1	1328.9	1447.1	1572.7	1717.0	1807.0	1916.5
12.5°	875.6	912.6	968.3	1048.9	1110.0	1183.2	1271.2	1429.6	1636.5	1721.7	1797.0
15°	748.7	789.7	854.2	943.5	1016.7	1104.0	1202.7	1375.2	1595.5	1727.1	1790.9
17.5°	644.0	673.5	741.3	818.6	902.5	997.9	1139.5	1372.6	1638.5	1807.0	1911.1
20°	571.5	575.5	612.4	678.2	792.4	916.6	1100.6	1359.1	1776.1	1944.7	2076.3
22.5°	525.8	521.8	522.4	578.2	658.1	836.7	1039.5	1404.8	1932.6	2163.6	2252.2
25°	503.0	492.2	485.5	497.6	570.1	742.0	993.2	1465.2	2101.1	2344.2	2453.0
27.5°	490.9	472.1	458.6	460.7	513.7	694.3	964.3	1491.4	2268.4	2596.0	2634.3
30°	486.2	462.7	443.2	436.5	471.4	627.9	902.5	1536.4	2418.1	2734.4	2767.3
32.5°	469.4	440.5	421.7	415.7	429.8	569.4	858.2	1568.6	2550.4	2884.8	2873.4
35°	449.9	425.7	402.2	390.8	400.9	531.8	822.6	1553.2	2706.2	3001.6	2995.6
37.5°	447.9	416.3	396.9	378.1	377.4	485.5	774.2	1568.0	2805.6	3211.1	3128.6
40°	430.4	410.3	384.8	369.3	360.6	462.0	727.2	1533.1	2951.3	3295.8	3214.5
42.5°	431.1	400.9	378.7	360.6	351.9	427.7	695.0	1523.6	3002.3	3433.4	3254.8
45°	420.4	390.8	372.0	350.5	345.8	401.6	664.1	1480.0	3092.3	3440.1	3204.4
47.5°	409.6	383.4	363.3	337.8	327.0	392.2	639.9	1443.7	3045.3	3377.0	3134.6
50°	402.2	372.0	353.2	335.1	304.9	376.0	608.4	1435.0	2979.5	3291.7	3005.0
52.5°	389.5	362.6	343.1	329.0	280.7	361.3	596.3	1486.0	3060.1	3227.9	2967.4
55°	377.4	349.9	325.0	297.5	260.5	322.3	562.7	1533.7	3177.6	3375.0	3138.0
57.5°	364.6	338.4	311.6	278.7	241.1	282.0	527.8	1542.5	2957.3	3119.1	2978.8
60°	347.8	314.3	294.1	251.1	220.3	233.7	418.3	1359.8	2293.9	2604.8	2609.5
62.5°	329.0	292.8	275.3	225.0	198.8	201.5	341.1	1142.9	1860.7	2156.2	2284.5
65°	304.2	269.3	248.5	208.2	183.3	174.6	249.8	837.4	1413.5	1749.3	1895.0
67.5°	272.0	239.1	212.9	181.3	163.8	149.7	170.6	471.4	834.7	1174.5	1218.8
70°	237.7	209.5	182.0	155.8	136.3	126.2	124.9	208.8	398.9	631.9	719.2
72.5°	187.4	167.2	145.0	125.6	112.8	98.0	89.3	86.6	135.0	257.2	355.2
75°	134.3	117.5	104.8	92.0	82.6	74.5	67.8	61.8	56.4	64.5	88.6
77.5°	84.6	78.6	68.5	65.1	59.8	57.7	55.1	51.7	47.7	45.0	45.0
80°	57.1	53.0	49.7	49.0	47.0	46.3	47.0	43.6	39.6	36.3	37.6
82.5°	38.3	37.6	36.9	36.3	36.9	37.6	38.9	38.3	34.9	32.9	33.6
85°	22.8	24.2	25.5	26.9	29.5	26.2	21.5	18.1	16.1	14.8	14.1
87.5°	8.7	12.1	10.7	10.1	10.7	10.1	9.4	8.7	7.4	6.7	6.7
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°	2056.2	2056.2	2056.2	2056.2	2056.2	2056.2	2056.2	2056.2	2056.2	2056.2
2.5°	2223.4	2236.8	2248.2	2245.5	2222.0	2190.5	2177.7	2112.6	2099.1	2090.4
5°	2253.6	2331.5	2348.3	2338.2	2277.1	2199.9	2124.6	2029.3	1973.6	1971.5
7.5°	2197.8	2293.9	2324.1	2346.9	2265.7	2131.4	2002.4	1859.4	1824.5	1827.2
10°	2056.2	2209.3	2283.8	2307.3	2214.0	2097.8	1919.2	1774.1	1699.6	1698.2
12.5°	1977.6	2097.8	2118.6	2151.5	2124.0	2006.5	1870.8	1708.3	1635.8	1634.4
15°	1907.8	1987.0	1993.0	2039.4	2054.1	1974.9	1883.6	1710.3	1651.9	1645.9
17.5°	1968.9	1913.8	1891.0	1897.0	1940.7	1969.5	1957.4	1824.5	1764.7	1731.1
20°	2009.8	1886.9	1817.8	1824.5	1876.2	1981.6	2067.6	1989.7	1895.0	1899.0
22.5°	2119.3	1891.0	1782.9	1775.5	1857.4	2044.7	2191.8	2198.5	2107.2	2085.0
25°	2283.1	1937.3	1772.1	1770.1	1848.7	2112.6	2336.8	2445.6	2352.3	2311.3
27.5°	2414.7	2009.8	1805.7	1812.4	1876.2	2167.6	2460.4	2604.8	2533.6	2483.2
30°	2530.2	2085.0	1852.7	1821.8	1950.1	2196.5	2513.5	2786.1	2729.0	2687.4
32.5°	2577.9	2191.8	1927.2	1876.2	2011.2	2231.4	2623.6	2962.0	2913.0	2810.3
35°	2658.5	2251.6	1967.5	1963.5	2117.9	2315.4	2675.3	3078.2	3058.0	2966.7
37.5°	2723.0	2312.0	2110.5	2066.2	2264.3	2456.4	2758.6	3238.7	3192.3	3149.4
40°	2772.7	2420.1	2244.2	2302.6	2444.3	2584.6	2835.1	3248.7	3382.4	3257.5
42.5°	2727.0	2516.8	2463.8	2603.4	2737.7	2731.0	2843.8	3326.6	3426.7	3361.6
45°	2715.6	2680.7	2810.9	2937.8	2968.7	2852.6	2781.4	3240.7	3413.3	3384.4
47.5°	2688.0	2841.8	3068.8	3275.6	3228.6	2933.8	2706.8	3225.2	3421.3	3369.6
50°	2678.6	2876.7	3259.5	3460.9	3432.7	3004.3	2671.9	3125.9	3364.2	3359.5
52.5°	2678.0	2948.6	3338.7	3561.7	3579.1	3115.8	2719.6	3176.2	3408.6	3448.2
55°	2708.2	2925.8	3328.7	3505.9	3499.2	3066.1	2725.0	3209.8	3463.0	3501.9
57.5°	2554.4	2620.9	2747.1	2887.5	2851.2	2539.6	2433.5	2967.4	3178.2	3150.0
60°	2205.9	1997.7	1855.4	1848.7	1778.2	1680.8	1991.7	2648.4	2648.4	2620.9
62.5°	1931.9	1311.5	1126.8	1074.4	1124.8	1236.9	1921.2	2575.9	2502.7	2471.1
65°	1689.5	1001.2	814.5	799.8	887.1	1056.3	1737.2	2194.5	2065.6	1960.8
67.5°	1087.2	733.3	605.7	579.5	684.9	775.6	1156.3	1349.7	1268.5	1227.5
70°	701.1	477.4	337.1	316.3	357.2	478.1	738.7	787.0	668.8	641.3
72.5°	331.7	206.2	118.2	97.4	109.5	182.6	292.1	314.3	261.2	239.1
75°	105.4	75.9	48.3	41.6	39.6	47.0	67.2	51.7	37.6	36.9
77.5°	47.0	45.0	38.3	32.2	28.2	23.5	19.5	16.1	16.8	17.5
80°	38.9	35.6	31.6	28.2	23.5	18.1	14.1	10.7	10.7	11.4
82.5°	34.2	30.9	27.5	23.5	20.1	14.8	10.7	7.4	6.7	6.7
85°	14.8	17.5	18.8	20.1	16.1	12.1	7.4	4.7	4.0	4.0
87.5°	6.0	5.4	4.7	4.0	3.4	3.4	2.7	2.0	1.3	1.3
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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