

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: P450841

Luminaire Tested: **GALN-SA1C-830-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450841
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4873 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): 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



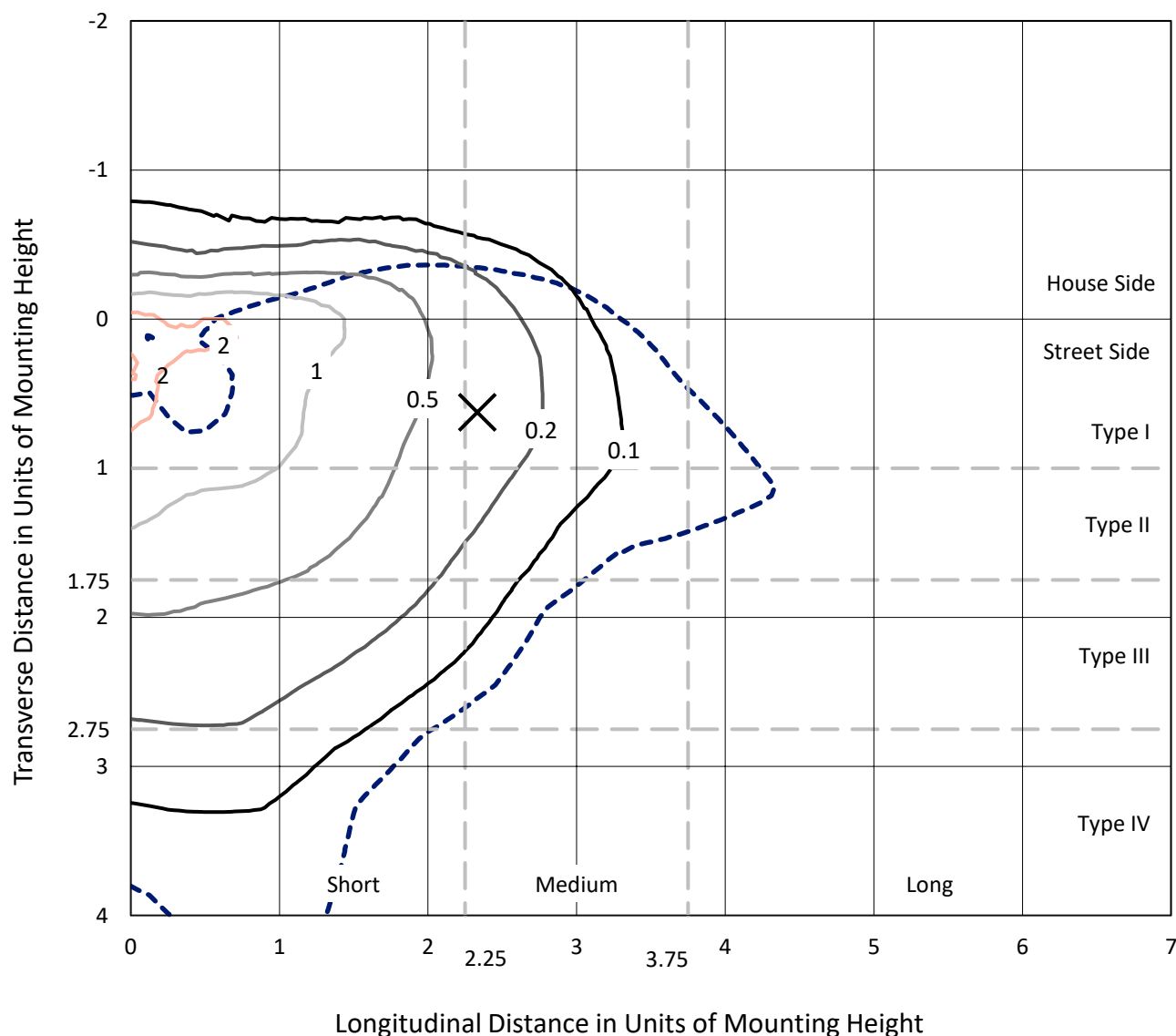
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

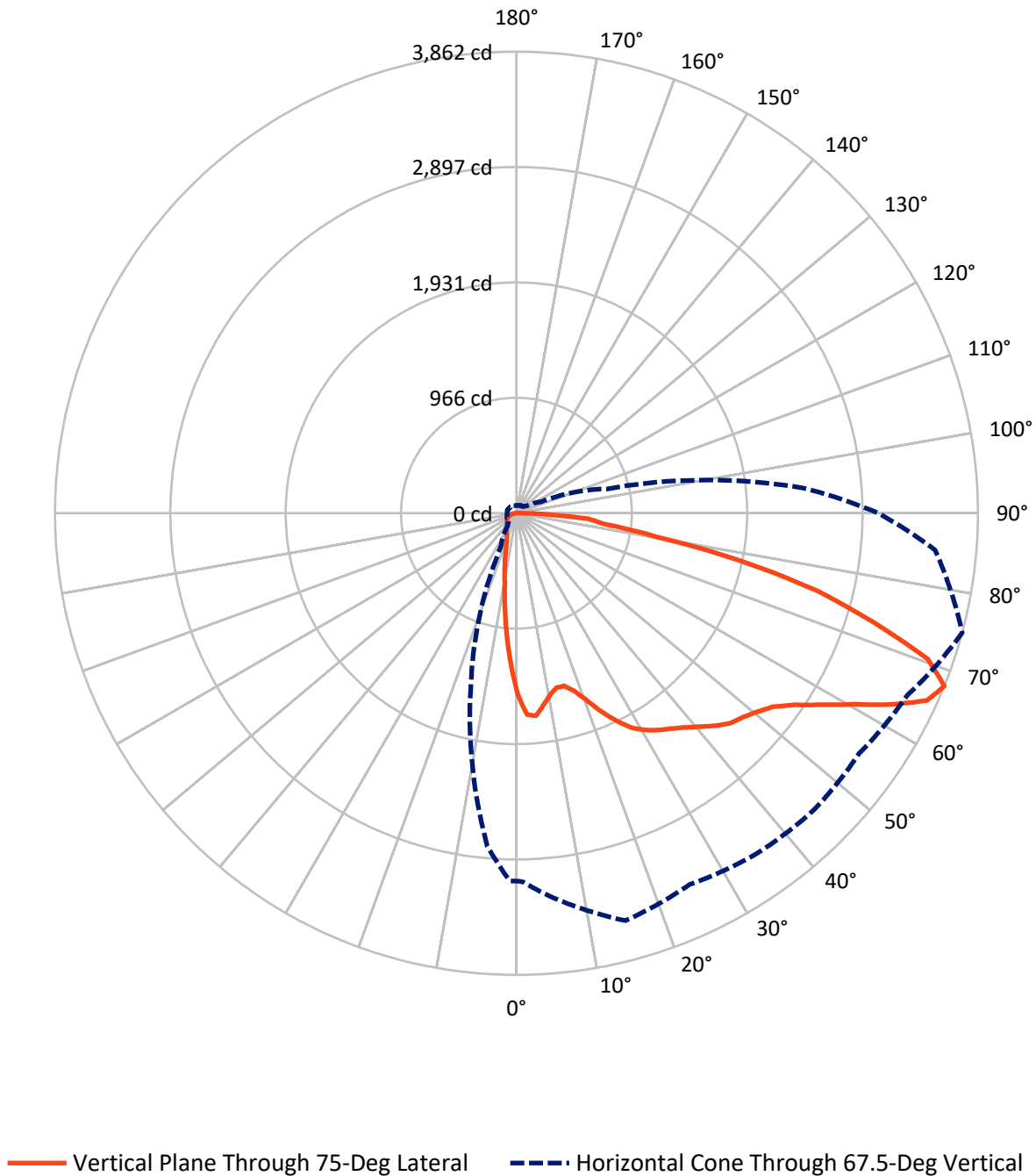
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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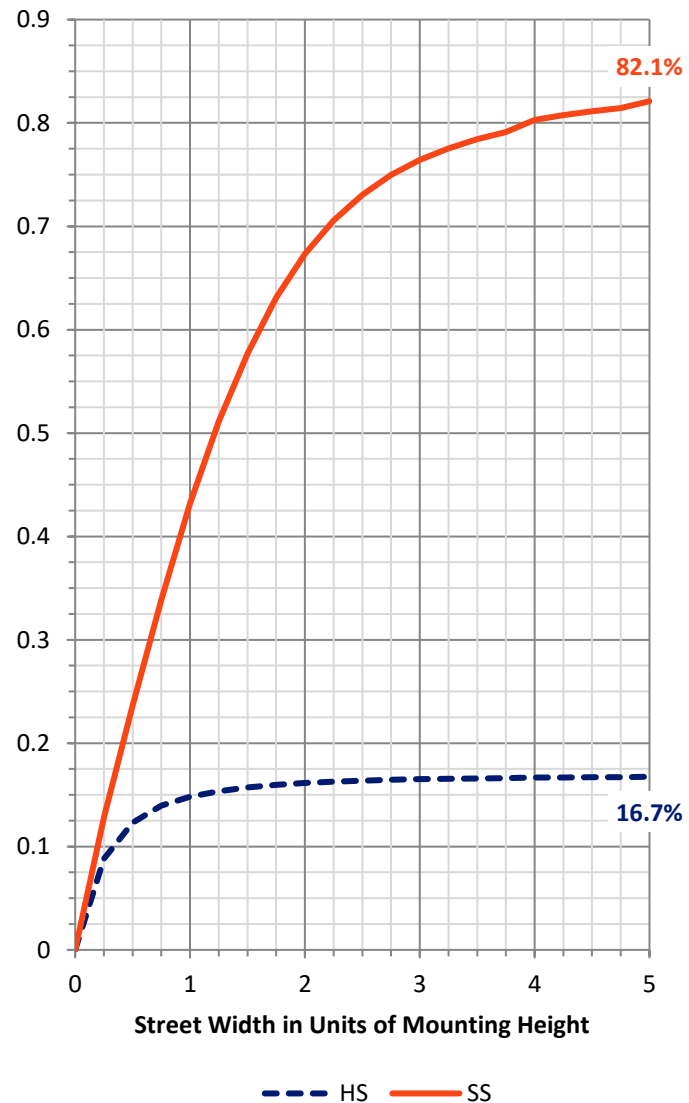
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	823.6	0.0	823.6
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	4049.4	0.0	4049.4
	% Fixture	83.1	0.0	83.1
Total	Lumens	4873.0	0.0	4873.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.5	2.4
10°-20°	240.8	4.9
20°-30°	346.5	7.1
30°-40°	499.1	10.2
40°-50°	701.1	14.4
50°-60°	977.8	20.1
60°-70°	1162.6	23.9
70°-80°	684.7	14.1
80°-90°	144.8	3.0
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°	4873.0	100.0
0°-180°	4873.0	100.0

Coefficient of Utilization



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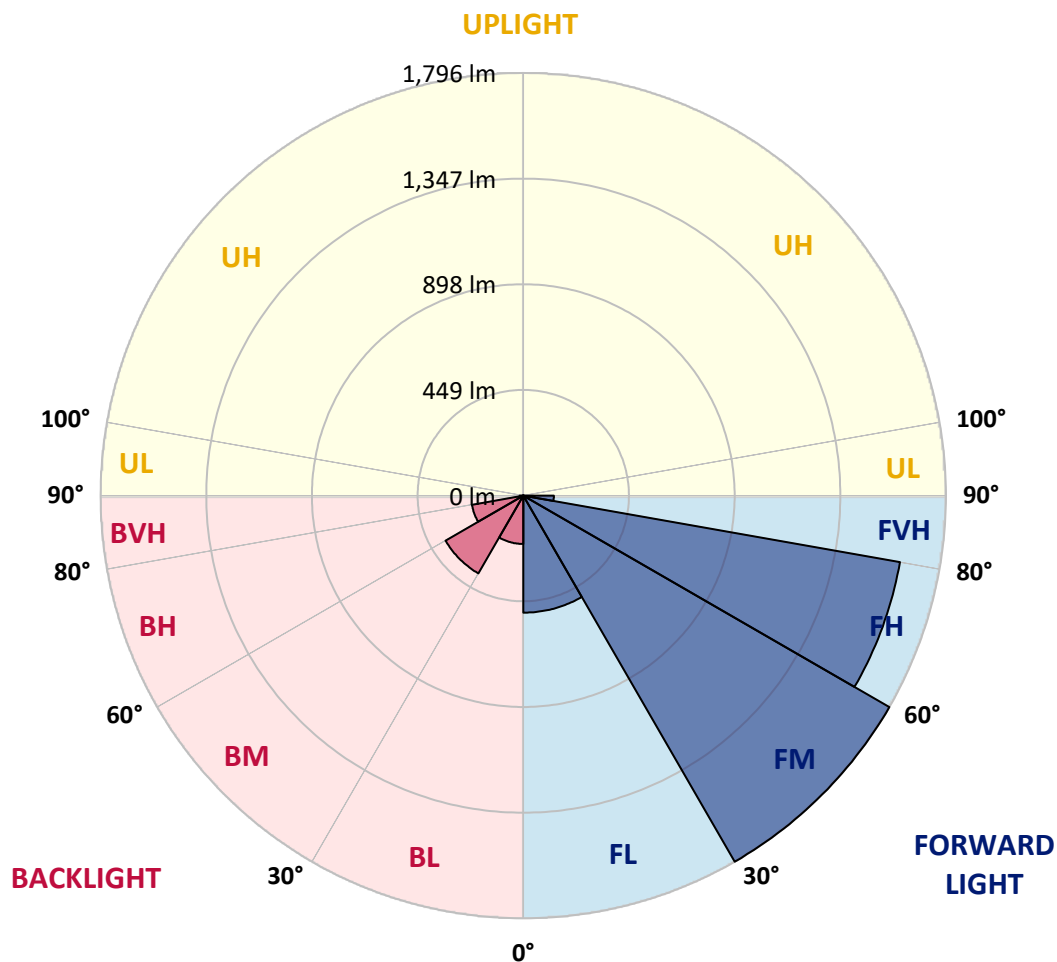
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	497.4	10.2			
FM	(30°-60°)	1796.5	36.9			
FH	(60°-80°)	1625.7	33.4			G1/1800
FVH	(80°-90°)	129.8	2.7			G2/225
BL	(0°-30°)	205.4	4.2	B1/500		
BM	(30°-60°)	381.6	7.8	B1/1000		
BH	(60°-80°)	221.6	4.5	B1/500		G1/500
BVH	(80°-90°)	15.0	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-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1522.4	1522.4	1522.4	1522.4	1522.4	1522.4	1522.4	1522.4	1522.4	1522.4	1522.4
2.5°	1641.5	1643.7	1657.7	1698.7	1726.8	1737.1	1744.3	1730.9	1717.7	1685.9	1637.7
5°	1636.5	1649.3	1685.9	1777.7	1850.2	1881.5	1890.9	1850.6	1784.0	1702.1	1603.7
7.5°	1540.9	1558.1	1614.3	1768.4	1896.2	1969.3	1959.6	1886.8	1766.8	1620.9	1483.4
10°	1427.4	1446.5	1514.3	1700.6	1865.2	1965.9	1965.9	1877.1	1717.7	1544.3	1385.9
12.5°	1337.4	1357.4	1434.9	1630.9	1800.9	1896.2	1912.1	1835.9	1682.4	1495.9	1321.8
15°	1307.8	1327.1	1410.6	1588.7	1732.7	1790.9	1796.2	1771.2	1665.2	1499.3	1319.0
17.5°	1344.6	1369.6	1454.0	1601.2	1670.2	1673.7	1677.7	1697.4	1667.1	1562.1	1375.9
20°	1451.2	1478.1	1566.2	1641.5	1615.6	1579.9	1582.1	1632.7	1689.3	1665.9	1511.8
22.5°	1604.9	1628.4	1718.7	1712.4	1592.4	1519.0	1503.7	1574.3	1722.1	1795.2	1656.5
25°	1770.9	1798.4	1902.1	1817.7	1599.0	1482.8	1473.1	1539.9	1756.2	1916.2	1823.7
27.5°	1960.9	1987.7	2069.6	1924.0	1633.4	1479.9	1468.4	1536.8	1786.8	2028.0	1983.4
30°	2102.1	2126.8	2182.4	2013.4	1675.6	1498.7	1484.3	1561.5	1813.1	2104.6	2139.0
32.5°	2213.0	2238.7	2269.0	2069.0	1731.2	1532.8	1506.2	1606.5	1847.4	2163.0	2254.3
35°	2328.7	2359.0	2356.8	2118.4	1783.1	1572.1	1546.2	1671.5	1901.5	2214.0	2400.5
37.5°	2475.2	2487.4	2471.8	2162.7	1845.2	1643.1	1628.7	1768.1	1978.4	2275.5	2571.5
40°	2624.0	2648.3	2568.0	2216.5	1920.9	1776.5	1774.9	1910.9	2069.6	2347.7	2737.1
42.5°	2751.5	2772.1	2658.0	2263.3	2012.4	1939.3	1951.2	2102.4	2189.3	2431.5	2870.2
45°	2847.4	2865.8	2741.1	2308.7	2133.0	2127.4	2197.4	2307.7	2340.2	2506.8	2948.3
47.5°	2928.9	2946.8	2799.0	2377.4	2282.1	2352.1	2474.0	2521.8	2469.3	2549.9	3035.8
50°	2997.7	3003.0	2838.6	2459.3	2467.1	2627.4	2745.5	2776.5	2596.8	2611.8	3111.8
52.5°	3069.3	3062.4	2907.1	2562.4	2667.1	2888.6	2974.6	3006.8	2719.0	2688.0	3222.4
55°	3229.6	3236.1	3060.5	2692.4	2869.3	3145.2	3258.3	3227.4	2854.3	2828.3	3363.0
57.5°	3423.3	3417.7	3276.4	2895.8	3075.2	3383.9	3468.3	3418.6	3034.9	3021.1	3505.5
60°	3498.6	3506.1	3457.1	3114.6	3278.3	3593.0	3679.2	3602.0	3251.4	3245.2	3613.0
62.5°	3423.0	3465.2	3498.3	3309.2	3451.4	3746.7	3832.4	3744.2	3477.4	3522.7	3688.3
65°	3272.4	3281.4	3394.2	3474.2	3534.9	3772.0	3816.7	3769.9	3666.1	3775.5	3684.9
67.5°	3076.8	3084.6	3216.7	3528.3	3427.4	3484.6	3515.8	3502.1	3607.7	3862.0	3515.2
70°	2890.5	2884.3	3023.9	3390.5	2983.6	2896.8	2922.7	2879.6	3113.0	3650.5	3182.4
72.5°	2528.0	2550.5	2700.5	3007.4	2362.4	2221.2	2277.7	2166.2	2394.3	3126.4	2583.0
75°	1980.2	1985.5	2235.9	2524.0	1782.1	1559.3	1635.9	1589.3	1834.0	2608.0	1783.7
77.5°	1371.2	1359.3	1628.4	1927.7	1270.9	1141.5	1142.8	1120.6	1280.6	1920.2	1211.8
80°	870.9	852.8	1019.3	1190.9	873.4	934.3	903.7	902.8	833.7	1184.6	732.8
82.5°	470.6	490.6	644.0	746.5	626.5	722.2	661.8	642.5	572.2	741.5	468.7
85°	214.4	233.1	343.4	507.8	475.9	481.2	321.5	379.4	473.4	602.2	250.3
87.5°	20.9	26.9	70.9	239.7	162.5	128.1	47.8	92.2	119.1	214.1	20.0
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°	1522.4	1522.4	1522.4	1522.4	1522.4	1522.4	1522.4	1522.4	1522.4	1522.4	1522.4
2.5°	1618.1	1601.8	1546.5	1500.9	1452.4	1415.6	1367.4	1335.3	1313.1	1279.6	1275.6
5°	1543.7	1504.0	1407.8	1309.6	1225.0	1161.2	1096.5	1037.1	1002.1	991.2	977.1
7.5°	1418.4	1351.5	1227.8	1115.3	1018.1	923.1	850.0	798.1	763.4	743.1	718.7
10°	1315.3	1237.8	1087.1	949.3	869.3	810.3	745.9	690.3	647.5	610.9	590.9
12.5°	1245.9	1158.4	989.0	877.2	815.3	752.5	677.2	614.7	551.5	510.0	492.2
15°	1225.0	1132.5	958.7	841.2	752.5	670.3	585.9	504.4	441.9	402.5	389.4
17.5°	1276.2	1164.3	958.4	793.4	678.7	580.6	472.5	395.9	331.9	302.5	293.1
20°	1371.8	1225.6	961.2	746.2	598.7	460.6	343.7	280.9	250.3	237.8	233.1
22.5°	1505.3	1319.0	969.6	699.7	511.2	353.7	257.5	225.6	214.7	212.5	211.6
25°	1669.6	1434.6	998.1	657.8	437.5	270.0	215.3	200.9	194.7	192.5	192.2
27.5°	1820.9	1584.0	1032.5	621.9	366.2	232.8	194.7	182.5	176.2	175.9	176.6
30°	1957.4	1709.0	1061.2	581.5	312.2	206.9	181.2	169.1	163.1	162.8	164.7
32.5°	2075.5	1811.8	1082.5	541.9	282.2	190.9	169.1	155.9	150.9	150.0	150.9
35°	2201.8	1914.3	1072.8	510.9	265.0	177.8	160.0	147.2	141.2	138.4	138.4
37.5°	2345.8	2019.9	1056.2	485.3	257.2	166.9	152.2	139.7	133.7	130.9	130.6
40°	2503.0	2125.5	1033.4	462.5	249.4	160.3	146.9	133.7	126.6	123.7	123.1
42.5°	2641.8	2215.9	1014.6	447.5	236.6	161.6	142.2	129.4	120.3	116.6	116.2
45°	2762.4	2306.8	1011.2	438.7	225.9	159.7	140.9	125.9	115.3	111.2	110.6
47.5°	2856.8	2401.5	1030.9	433.7	214.4	149.7	149.1	123.7	110.9	106.6	105.9
50°	2971.8	2535.8	1075.9	423.4	203.7	140.3	157.5	123.4	107.5	101.9	100.3
52.5°	3124.9	2710.8	1136.8	405.0	188.4	131.6	150.3	123.4	103.4	97.8	95.9
55°	3356.4	2933.9	1196.5	379.0	166.9	120.0	135.6	119.7	97.5	92.5	91.2
57.5°	3509.9	3097.1	1234.6	343.1	140.0	111.6	116.9	113.7	91.6	86.2	86.2
60°	3517.7	3140.8	1216.5	297.8	123.1	103.7	101.6	114.7	86.2	80.6	80.0
62.5°	3427.7	3033.6	1122.1	257.2	114.1	95.3	91.9	100.6	80.9	75.3	74.4
65°	3287.1	2760.2	958.4	237.8	109.1	87.8	82.8	82.5	75.3	70.0	68.7
67.5°	3028.6	2412.1	787.5	226.6	106.6	79.4	74.7	73.1	68.7	64.4	63.7
70°	2647.7	2020.2	631.5	221.9	105.3	70.6	66.9	65.0	61.2	57.8	57.5
72.5°	2059.9	1638.7	521.2	218.7	104.7	62.5	58.4	55.9	53.7	50.6	50.6
75°	1479.6	1205.6	397.8	197.2	96.9	53.7	49.4	47.8	44.7	42.2	42.8
77.5°	932.8	811.8	261.9	145.0	75.0	43.1	39.4	38.4	35.9	32.5	34.7
80°	630.0	570.9	152.8	91.2	47.2	31.6	30.3	30.0	27.2	23.4	23.7
82.5°	428.7	420.6	79.4	51.9	27.2	18.4	17.8	18.4	15.3	12.5	12.5
85°	167.5	228.7	37.5	20.3	8.7	2.8	4.1	4.4	2.5	1.2	1.6
87.5°	3.1	23.4	0.9	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1522.4	1522.4	1522.4	1522.4	1522.4	1522.4	1522.4	1522.4	1522.4	1522.4	1522.4
2.5°	1269.3	1266.5	1271.2	1251.2	1255.3	1262.8	1266.5	1268.7	1299.6	1292.4	1312.1
5°	990.3	987.5	1005.6	1008.1	1017.5	1015.6	1024.6	1026.8	1038.1	1042.1	1069.6
7.5°	720.3	732.5	753.1	763.7	779.7	784.7	780.0	791.5	768.1	785.0	790.0
10°	578.7	564.0	555.3	579.7	582.8	605.9	596.5	589.0	602.8	603.4	616.5
12.5°	481.9	450.3	429.4	436.2	443.7	453.7	455.3	470.3	480.3	489.7	497.5
15°	377.8	366.9	347.8	338.4	349.0	353.1	362.8	375.3	385.9	388.7	399.4
17.5°	290.0	291.9	288.7	283.1	289.7	292.8	293.4	293.7	296.6	294.7	310.3
20°	233.4	240.0	247.8	249.1	251.2	252.8	250.0	239.4	239.7	246.2	251.2
22.5°	211.2	212.5	221.2	224.1	230.9	228.1	220.0	215.0	214.4	215.9	218.4
25°	193.7	195.6	201.9	206.2	211.6	206.6	200.6	195.9	195.3	196.9	199.4
27.5°	178.1	180.9	186.6	190.9	195.9	191.2	185.6	181.6	181.2	180.9	182.5
30°	165.6	168.7	172.8	177.8	181.2	177.2	171.9	169.7	169.4	168.7	169.4
32.5°	153.1	158.1	162.2	164.7	168.1	165.0	160.9	159.7	157.5	155.6	154.7
35°	139.1	144.4	150.6	153.7	157.2	154.1	151.2	145.9	142.2	141.9	142.5
37.5°	130.9	133.1	138.1	143.4	146.9	145.3	140.0	134.7	133.7	133.7	134.4
40°	123.7	124.7	126.9	133.7	140.0	135.3	128.7	127.2	127.2	126.9	127.2
42.5°	116.6	117.5	117.5	122.8	132.8	125.3	120.3	120.3	120.3	120.6	121.6
45°	110.0	110.3	110.0	113.7	123.1	116.9	113.4	114.4	115.0	115.6	116.2
47.5°	104.4	104.7	104.4	107.5	112.2	109.7	107.8	109.1	110.3	111.2	111.9
50°	99.4	99.1	99.7	101.6	103.7	104.4	103.1	105.0	105.6	106.9	108.4
52.5°	95.0	94.7	95.3	96.2	99.4	99.4	99.4	100.9	102.2	103.4	105.6
55°	90.0	90.3	91.2	92.5	96.6	95.9	96.2	97.5	98.7	100.6	101.9
57.5°	85.3	85.9	87.2	89.1	93.1	92.8	93.1	93.7	95.3	96.2	97.5
60°	80.0	81.2	82.8	84.1	88.1	87.8	89.4	90.6	91.6	91.6	92.2
62.5°	74.7	76.6	78.1	79.1	83.4	83.7	85.9	86.9	87.5	86.9	87.8
65°	69.4	72.2	72.8	74.1	78.4	78.7	81.2	83.4	82.8	82.2	83.7
67.5°	64.1	67.5	67.2	68.7	73.1	73.7	75.9	79.7	78.4	77.8	79.1
70°	58.1	60.6	60.9	61.9	67.8	66.9	70.3	73.7	72.8	73.1	73.1
72.5°	51.6	53.7	53.7	55.6	61.9	60.3	63.1	66.9	66.9	66.6	66.6
75°	43.7	45.0	46.2	49.1	55.6	53.7	55.6	59.1	59.7	59.1	59.1
77.5°	35.3	37.2	37.8	41.6	46.2	45.9	47.8	49.4	50.6	50.0	50.0
80°	25.0	26.9	29.4	33.4	36.2	37.2	38.1	39.4	40.0	40.0	40.6
82.5°	14.1	16.9	19.1	23.1	24.4	29.1	28.7	29.7	28.7	25.3	28.1
85°	3.1	5.9	8.4	10.6	12.2	16.9	17.8	20.0	16.6	15.3	15.3
87.5°	0.0	0.0	0.0	0.0	0.0	2.5	5.0	6.9	5.9	5.0	5.0
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1522.4	1522.4	1522.4	1522.4	1522.4	1522.4	1522.4	1522.4	1522.4	1522.4
2.5°	1328.7	1355.9	1388.7	1445.3	1484.9	1527.8	1570.9	1616.8	1629.0	1641.5
5°	1077.1	1130.6	1159.6	1235.6	1315.3	1416.5	1499.3	1589.9	1627.7	1636.5
7.5°	815.9	852.2	928.4	1005.3	1104.0	1210.3	1337.1	1478.4	1522.4	1540.9
10°	646.8	696.2	763.1	845.6	932.2	1046.5	1189.6	1354.6	1417.1	1427.4
12.5°	550.6	605.6	678.4	765.6	847.5	933.7	1078.1	1248.4	1315.3	1337.4
15°	440.3	506.9	590.9	682.8	771.8	866.2	1012.5	1204.6	1281.8	1307.8
17.5°	345.9	399.7	490.6	590.3	695.9	815.3	998.7	1225.6	1320.6	1344.6
20°	264.7	303.1	379.7	485.0	608.7	765.0	1002.1	1304.6	1418.4	1451.2
22.5°	228.7	248.4	295.0	395.3	533.7	721.2	1016.2	1413.1	1550.3	1604.9
25°	207.2	217.5	243.7	309.4	462.2	678.7	1048.4	1559.0	1734.6	1770.9
27.5°	188.7	196.2	212.5	259.7	397.2	639.4	1085.9	1720.9	1906.8	1960.9
30°	171.2	181.2	196.6	230.6	355.6	603.4	1133.1	1852.1	2051.8	2102.1
32.5°	157.8	167.8	181.9	210.3	320.3	565.6	1161.2	1967.4	2170.2	2213.0
35°	146.9	155.3	170.0	194.1	293.4	536.9	1155.6	2059.0	2284.9	2328.7
37.5°	139.1	146.2	160.9	178.7	273.1	506.9	1152.8	2179.9	2424.6	2475.2
40°	131.9	139.4	152.8	168.7	252.8	471.5	1154.3	2299.9	2573.3	2624.0
42.5°	126.2	134.7	145.6	165.9	231.9	443.1	1154.3	2404.3	2702.7	2751.5
45°	121.6	130.6	141.2	165.6	215.3	421.5	1146.5	2494.0	2805.8	2847.4
47.5°	117.5	127.5	142.8	160.0	211.2	405.9	1139.6	2565.8	2889.9	2928.9
50°	114.7	126.6	151.9	153.4	212.5	401.2	1172.8	2656.5	2963.9	2997.7
52.5°	112.5	126.9	151.6	143.7	210.3	404.4	1241.8	2798.0	3066.8	3069.3
55°	108.1	126.6	143.7	132.8	201.2	409.7	1330.6	3003.6	3227.7	3229.6
57.5°	103.7	123.1	133.4	123.4	182.8	409.7	1437.4	3198.3	3421.7	3423.3
60°	99.4	128.1	117.2	115.3	158.7	402.2	1550.3	3283.9	3482.7	3498.6
62.5°	95.0	129.1	104.7	108.1	141.2	384.0	1634.3	3189.3	3400.2	3423.0
65°	90.0	104.1	96.6	100.6	132.2	353.7	1607.7	3015.8	3245.2	3272.4
67.5°	84.1	88.1	87.8	92.8	129.1	309.1	1467.8	2796.5	3078.3	3076.8
70°	76.9	79.1	80.0	85.3	123.1	274.4	1223.1	2511.8	2855.5	2890.5
72.5°	69.4	71.2	72.2	76.9	117.2	254.7	949.3	2119.6	2473.3	2528.0
75°	61.2	62.5	63.7	67.8	110.9	225.6	676.2	1618.1	1894.3	1980.2
77.5°	52.8	52.8	54.4	58.4	93.4	186.2	453.7	1135.0	1283.4	1371.2
80°	42.8	43.1	42.5	46.9	68.7	127.5	257.8	758.1	854.0	870.9
82.5°	32.8	31.9	32.2	34.4	51.2	86.9	137.5	470.9	480.0	470.6
85°	20.6	20.6	20.0	22.5	32.8	45.3	75.0	288.4	225.3	214.4
87.5°	8.4	6.9	7.8	9.1	15.6	18.4	29.4	59.4	22.8	20.9
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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