

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: P526935

Luminaire Tested: **GALN-SA1D-830-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526935
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
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-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3439 lumens
Efficiency: N/A
Efficacy: 52.9 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): 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



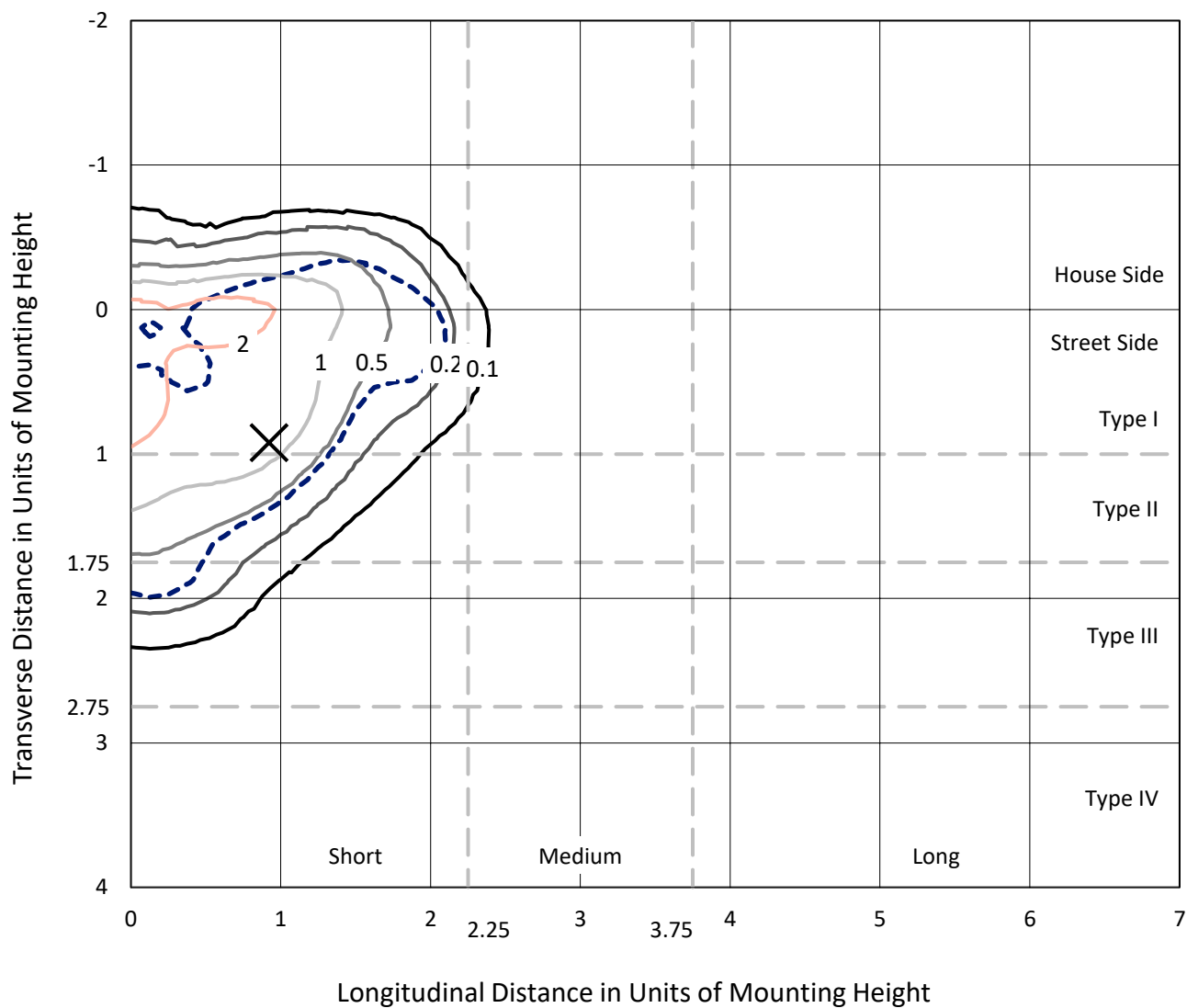
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

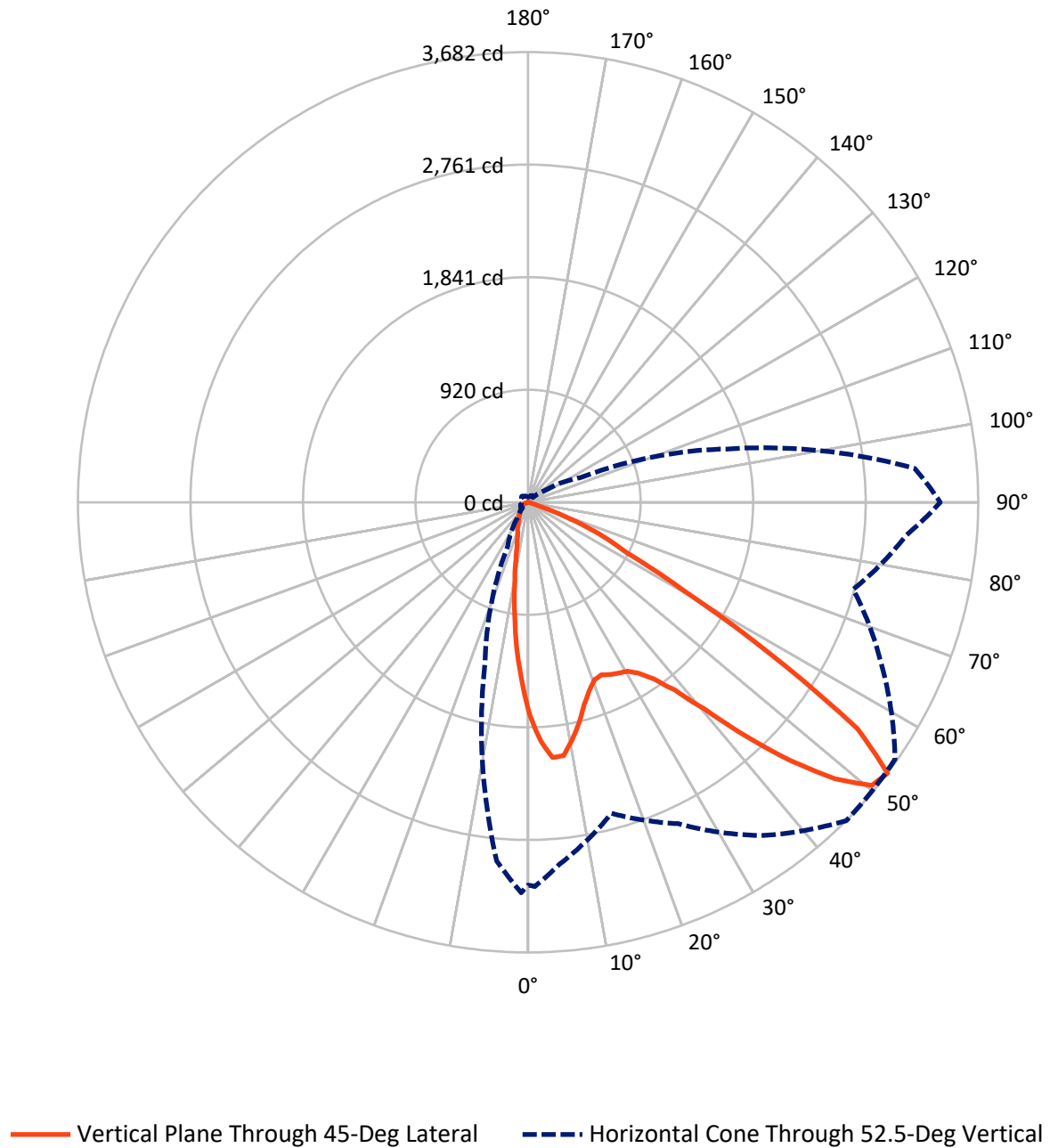
--- 1/2 Max cd



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

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Luminous Intensity Polar Plot



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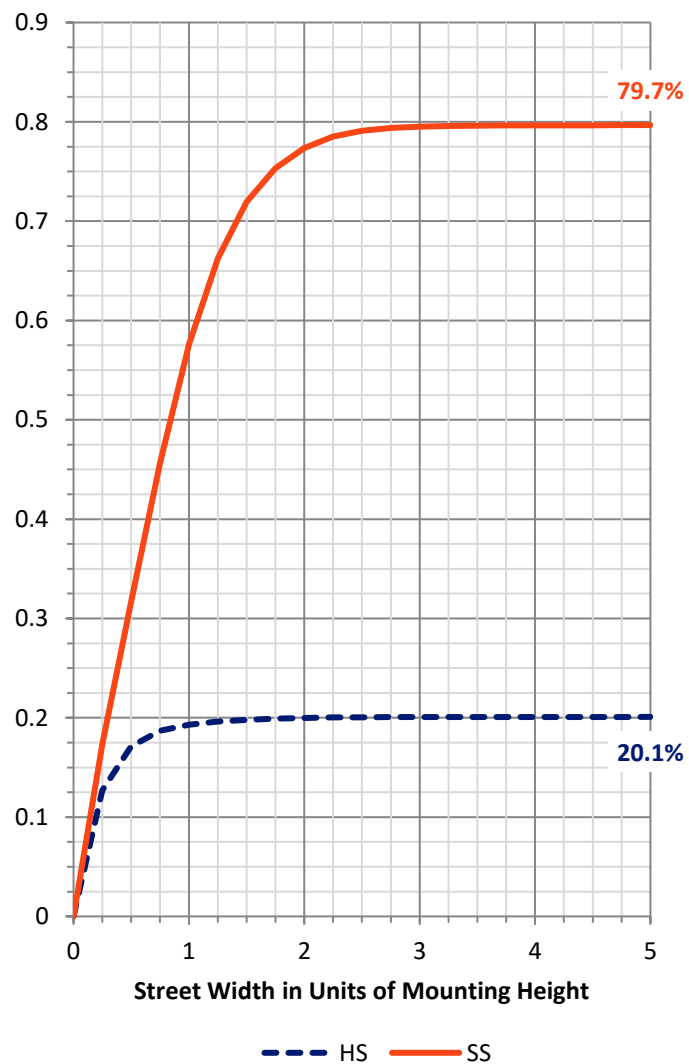
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	697.9	0.0	697.9
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	2741.0	0.0	2741.0
	% Fixture	79.7	0.0	79.7
Total	Lumens	3439.0	0.0	3439.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.2	3.7
10°-20°	250.9	7.3
20°-30°	381.8	11.1
30°-40°	570.7	16.6
40°-50°	812.7	23.6
50°-60°	873.6	25.4
60°-70°	387.1	11.3
70°-80°	31.3	0.9
80°-90°	3.7	0.1
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°	3439.0	100.0
0°-180°	3439.0	100.0

Coefficient of Utilization



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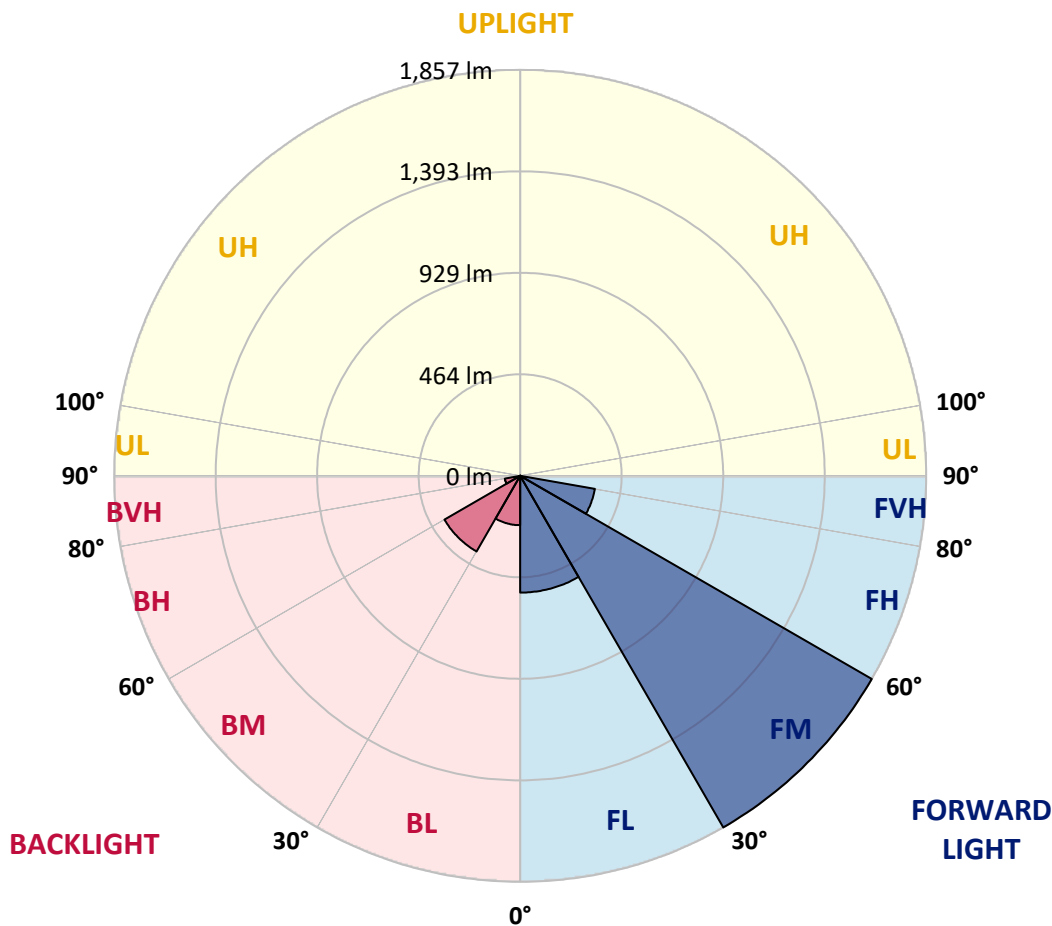
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	534.1	15.5			
FM	(30°-60°)	1857.2	54.0			
FH	(60°-80°)	347.0	10.1			G0/660
FVH	(80°-90°)	2.7	0.1			G0/10
BL	(0°-30°)	225.7	6.6	B1/500		
BM	(30°-60°)	399.8	11.6	B1/1000		
BH	(60°-80°)	71.4	2.1	B0/110		G0/110
BVH	(80°-90°)	0.9	0.0			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°	1743.7	1743.7	1743.7	1743.7	1743.7	1743.7	1743.7	1743.7	1743.7	1743.7	1743.7
2.5°	1845.2	1850.6	1880.4	1917.6	1937.2	1981.8	1950.7	1958.8	1941.9	1882.4	1835.7
5°	1789.1	1788.4	1826.3	1918.2	2005.5	2094.1	2096.8	2049.5	1966.3	1875.0	1744.4
7.5°	1620.0	1646.3	1685.6	1832.3	1994.0	2060.3	2092.1	2036.6	1908.8	1778.2	1636.9
10°	1492.1	1505.6	1571.9	1749.1	1867.5	1956.1	1975.7	1943.9	1845.9	1682.9	1524.6
12.5°	1418.4	1425.2	1502.9	1651.7	1776.9	1842.5	1852.0	1866.8	1796.5	1643.6	1453.6
15°	1419.1	1424.5	1529.3	1653.8	1703.1	1685.6	1716.7	1716.0	1746.4	1636.2	1513.1
17.5°	1521.2	1527.3	1622.0	1683.5	1661.9	1620.6	1618.6	1649.7	1714.0	1728.9	1603.0
20°	1697.1	1711.3	1780.9	1777.6	1655.8	1572.6	1549.6	1573.3	1722.8	1807.3	1784.3
22.5°	1933.8	1953.4	2002.1	1908.8	1683.5	1540.1	1532.7	1578.7	1780.9	1982.5	1989.9
25°	2208.4	2241.6	2265.2	2145.5	1782.3	1596.3	1561.1	1640.2	1859.4	2172.6	2251.7
27.5°	2390.4	2424.9	2419.4	2248.3	1848.6	1611.2	1581.4	1655.1	1927.7	2217.9	2388.3
30°	2532.4	2553.4	2591.2	2303.8	1914.9	1653.1	1602.4	1718.0	1950.0	2296.3	2553.4
32.5°	2698.1	2712.3	2715.0	2401.9	2017.0	1705.9	1667.3	1796.5	2048.8	2371.4	2699.5
35°	2865.2	2886.2	2842.2	2522.9	2079.9	1803.9	1775.5	1932.4	2127.9	2449.2	2860.5
37.5°	3046.5	3057.3	2955.8	2573.0	2169.9	1963.6	1948.0	2079.2	2265.2	2589.9	3039.0
40°	3198.6	3208.8	3076.9	2634.5	2264.6	2186.8	2226.7	2359.2	2451.9	2681.2	3128.3
42.5°	3283.2	3306.9	3117.5	2600.7	2454.6	2439.7	2617.0	2663.6	2668.4	2706.9	3208.1
45°	3306.2	3295.4	3050.5	2628.5	2621.0	2855.7	3016.7	3078.2	2883.4	2754.3	3228.4
47.5°	3200.0	3214.2	2951.8	2604.1	2839.5	3170.9	3379.2	3493.6	3043.8	2713.0	3178.4
50°	3114.1	3095.8	2920.0	2586.5	2898.3	3319.7	3641.0	3666.7	3191.2	2763.7	3123.6
52.5°	3131.0	3142.5	2970.7	2633.2	2899.7	3328.5	3681.6	3664.0	3195.9	2752.2	3104.0
55°	3166.9	3116.1	2949.1	2530.4	2705.6	3083.0	3267.6	3240.6	2949.7	2629.8	3055.9
57.5°	2732.6	2811.1	2711.6	2259.1	2220.6	2322.7	2319.3	2402.5	2200.3	2263.2	2782.0
60°	2217.9	2231.4	2268.6	1932.4	1536.8	1501.6	1452.9	1400.1	1480.6	1935.2	2530.4
62.5°	1950.7	1934.5	2067.0	1757.9	1084.9	908.4	900.3	932.7	1142.4	1845.9	2373.5
65°	1417.7	1438.0	1534.1	1364.3	814.4	693.3	681.1	777.2	924.6	1479.3	1811.4
67.5°	865.8	905.0	913.8	841.4	552.6	439.0	421.4	508.6	667.6	957.1	1061.9
70°	399.7	447.1	491.7	459.3	319.9	180.6	170.5	213.7	336.8	550.6	563.4
72.5°	121.1	121.8	170.5	177.9	103.5	40.6	35.8	47.3	114.3	181.9	191.4
75°	8.8	9.5	23.0	26.4	19.6	10.1	10.8	12.9	24.4	40.6	30.4
77.5°	0.7	0.7	0.7	3.4	6.1	6.8	8.8	10.1	12.9	14.9	13.5
80°	0.7	0.0	0.7	2.7	4.7	6.8	8.1	9.5	10.1	11.5	10.1
82.5°	0.0	0.0	0.0	2.0	4.7	6.8	7.4	10.1	11.5	13.5	11.5
85°	0.0	0.0	0.0	2.0	4.7	7.4	6.8	3.4	0.0	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°	1743.7	1743.7	1743.7	1743.7	1743.7	1743.7	1743.7	1743.7	1743.7	1743.7	1743.7
2.5°	1843.8	1817.5	1757.3	1726.8	1655.1	1645.0	1574.6	1563.1	1539.5	1526.6	1495.5
5°	1686.9	1655.1	1557.0	1474.5	1378.5	1311.5	1260.1	1213.4	1186.4	1161.4	1172.9
7.5°	1559.1	1466.4	1357.5	1219.5	1108.6	1036.9	958.4	894.2	856.3	830.6	836.7
10°	1425.2	1365.0	1213.4	1058.6	924.6	873.9	812.3	763.0	709.5	663.5	641.9
12.5°	1383.2	1293.9	1103.9	946.3	844.8	795.4	725.1	668.3	600.0	543.8	524.2
15°	1390.7	1304.8	1074.1	905.7	786.0	700.7	616.9	546.5	471.4	432.2	411.9
17.5°	1511.7	1362.9	1093.7	863.1	704.1	585.8	482.3	393.0	336.8	296.3	287.5
20°	1660.5	1488.7	1135.7	832.0	637.2	466.0	352.4	275.3	228.6	221.9	219.8
22.5°	1878.3	1694.4	1225.6	811.0	555.3	363.2	241.5	200.2	187.4	186.0	186.7
25°	2182.7	1952.1	1323.7	793.4	493.8	280.0	197.5	169.8	165.7	163.7	167.1
27.5°	2314.6	2107.6	1375.8	755.5	437.6	252.3	194.8	168.4	156.9	153.5	155.6
30°	2477.6	2211.1	1457.6	690.6	355.1	207.7	181.9	183.3	177.9	161.0	155.6
32.5°	2694.1	2340.3	1498.9	644.6	317.2	171.8	133.2	122.4	136.6	139.3	144.1
35°	2832.7	2471.5	1519.8	617.5	297.6	146.8	113.0	102.8	99.4	100.1	102.8
37.5°	3090.4	2648.7	1546.2	589.1	282.7	127.8	102.1	92.7	87.9	87.9	90.6
40°	3244.6	2789.4	1582.1	573.6	267.9	116.3	92.7	84.5	80.5	80.5	81.8
42.5°	3283.2	2859.1	1569.9	568.2	250.9	113.6	84.5	78.5	73.7	73.1	72.4
45°	3352.2	2965.3	1571.9	562.1	233.4	103.5	79.8	73.1	66.3	65.6	64.9
47.5°	3427.9	3041.7	1576.0	538.4	216.4	86.6	83.2	67.6	59.5	58.2	58.2
50°	3363.0	3102.6	1611.2	514.7	194.8	70.3	81.8	63.6	52.8	50.7	51.4
52.5°	3371.1	3174.3	1685.6	481.6	167.7	56.1	66.3	60.2	48.0	44.6	45.3
55°	3241.3	3098.5	1695.7	446.4	131.2	43.3	50.7	52.8	40.6	39.2	39.2
57.5°	2790.1	2623.7	1496.2	361.9	86.6	35.8	36.5	46.0	35.2	33.8	34.5
60°	2387.7	2106.3	1204.0	238.8	54.1	28.4	26.4	46.7	31.1	30.4	32.5
62.5°	2176.6	1730.9	913.1	148.1	37.2	21.6	18.3	37.9	27.1	27.1	29.8
65°	1572.6	1162.7	531.0	77.8	26.4	16.9	13.5	21.6	22.3	23.0	24.4
67.5°	974.0	587.1	223.9	37.9	17.6	11.5	8.8	13.5	14.9	14.9	16.2
70°	480.9	234.0	74.4	21.6	13.5	9.5	6.1	7.4	7.4	6.8	7.4
72.5°	148.8	70.3	18.9	13.5	9.5	6.1	3.4	2.7	1.4	0.0	0.7
75°	16.9	13.5	12.2	9.5	6.1	2.7	0.7	0.0	0.0	0.0	0.0
77.5°	10.1	11.5	11.5	9.5	6.1	2.0	0.0	0.0	0.0	0.0	0.0
80°	8.1	8.8	9.5	8.8	5.4	2.7	0.0	0.0	0.0	0.0	0.0
82.5°	10.1	11.5	12.9	11.5	7.4	3.4	1.4	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	2.0	0.7	0.0	0.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1743.7	1743.7	1743.7	1743.7	1743.7	1743.7	1743.7	1743.7	1743.7	1743.7	1743.7
2.5°	1482.6	1467.8	1488.7	1457.6	1456.9	1457.6	1448.8	1440.7	1453.6	1488.1	1491.4
5°	1131.6	1163.4	1173.5	1206.7	1188.4	1161.4	1166.8	1148.5	1193.2	1212.8	1197.2
7.5°	823.8	821.8	890.1	894.2	903.0	903.7	902.3	866.5	829.9	838.0	862.4
10°	639.2	604.7	637.8	634.5	656.1	650.0	658.8	620.2	633.1	633.1	648.7
12.5°	520.8	484.3	478.2	469.4	478.2	481.6	485.0	477.5	499.2	509.3	520.1
15°	397.7	377.4	372.0	355.1	357.8	367.3	375.4	378.8	372.0	387.6	388.9
17.5°	288.8	288.1	291.5	290.8	288.1	286.1	285.4	276.6	273.9	275.3	280.7
20°	219.2	224.6	236.1	247.6	253.6	246.2	236.1	221.2	215.1	216.4	217.1
22.5°	187.4	195.5	211.0	223.9	230.0	216.4	198.2	185.3	182.6	181.9	181.3
25°	169.8	179.2	190.7	194.8	194.1	186.0	172.5	167.1	165.7	164.4	158.3
27.5°	160.3	163.7	165.7	170.5	172.5	167.1	163.7	155.6	154.2	154.2	150.2
30°	154.9	152.9	155.6	152.2	154.9	150.8	151.5	151.5	148.1	149.5	149.5
32.5°	144.1	144.7	144.7	138.0	140.0	135.3	140.0	144.1	144.7	145.4	150.8
35°	105.5	117.7	123.8	123.8	125.8	122.4	121.8	117.0	110.9	104.8	102.1
37.5°	92.7	97.4	105.5	110.3	113.6	110.9	104.8	97.4	94.0	91.3	88.6
40°	82.5	86.6	92.0	97.4	104.2	100.8	91.3	87.9	83.9	83.9	81.2
42.5°	74.4	76.4	79.8	87.9	95.4	88.6	81.8	79.1	77.1	76.4	75.8
45°	67.0	67.6	71.0	77.8	86.6	79.8	73.1	69.7	70.3	71.0	70.3
47.5°	60.2	61.6	63.6	71.7	77.1	73.7	66.3	64.3	64.3	64.3	64.9
50°	52.1	55.5	59.5	66.3	70.3	68.3	62.2	59.5	58.2	58.2	58.8
52.5°	46.7	49.4	54.8	62.9	68.3	64.9	58.8	54.8	52.1	51.4	52.8
55°	40.6	45.3	54.1	60.2	67.6	64.3	57.5	52.8	48.0	47.3	47.3
57.5°	36.5	44.0	52.1	59.5	65.6	62.9	57.5	51.4	45.3	44.6	44.6
60°	34.5	42.6	50.7	57.5	65.6	61.6	56.8	50.1	43.3	43.3	42.6
62.5°	32.5	39.9	48.0	54.8	62.9	59.5	54.8	48.0	41.3	41.3	39.9
65°	27.1	34.5	39.9	46.0	54.8	51.4	46.7	41.9	36.5	35.2	35.8
67.5°	18.9	23.7	29.1	35.2	40.6	39.2	37.2	33.8	29.1	28.4	27.7
70°	9.5	12.9	17.6	23.7	28.4	27.1	25.7	23.0	20.3	19.6	19.6
72.5°	1.4	4.1	7.4	10.8	14.9	15.6	14.9	14.2	13.5	12.9	13.5
75°	0.0	0.0	0.0	2.7	6.1	7.4	8.8	10.1	10.1	8.8	10.8
77.5°	0.0	0.0	0.0	0.0	0.7	3.4	6.8	8.8	10.8	9.5	12.9
80°	0.0	0.0	0.0	0.0	0.7	4.1	6.8	9.5	10.8	9.5	13.5
82.5°	0.0	0.0	0.0	0.0	0.7	4.7	6.8	8.8	10.1	9.5	12.2
85°	0.0	0.0	0.0	0.0	2.0	4.1	2.7	1.4	0.7	0.7	2.0
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1743.7	1743.7	1743.7	1743.7	1743.7	1743.7	1743.7	1743.7	1743.7	1743.7
2.5°	1510.4	1558.4	1609.8	1629.4	1690.3	1736.3	1767.4	1834.4	1844.5	1845.2
5°	1213.4	1237.8	1325.7	1367.0	1457.6	1528.0	1603.0	1711.3	1783.6	1789.1
7.5°	862.4	930.0	967.2	1074.8	1186.4	1296.6	1408.2	1534.1	1617.9	1620.0
10°	694.0	737.9	804.2	884.7	978.7	1091.0	1239.8	1385.9	1471.1	1492.1
12.5°	558.7	635.8	711.6	794.8	866.5	951.0	1111.3	1306.1	1376.5	1418.4
15°	430.2	500.5	589.8	687.2	768.4	881.3	1064.0	1286.5	1404.9	1419.1
17.5°	317.2	380.1	462.7	554.6	676.4	836.7	1072.1	1385.9	1497.5	1521.2
20°	227.9	264.5	329.4	436.3	591.2	784.6	1080.2	1486.7	1656.5	1697.1
22.5°	180.6	195.5	238.1	332.8	495.8	729.8	1137.7	1679.5	1875.0	1933.8
25°	156.9	165.0	185.3	262.4	435.6	724.4	1229.7	1910.8	2165.8	2208.4
27.5°	151.5	152.9	170.5	240.8	403.1	688.6	1264.8	2075.2	2347.1	2390.4
30°	159.6	181.3	182.6	203.6	342.9	617.5	1283.1	2234.1	2500.6	2532.4
32.5°	138.0	131.2	136.0	157.6	301.7	576.3	1317.6	2372.8	2675.8	2698.1
35°	96.0	100.8	111.6	136.6	263.8	533.0	1326.4	2525.6	2842.2	2865.2
37.5°	88.6	91.3	100.1	116.3	232.0	508.6	1314.2	2637.2	3014.7	3046.5
40°	82.5	85.9	90.6	105.5	208.3	481.6	1297.3	2738.0	3120.2	3198.6
42.5°	77.8	80.5	84.5	100.8	188.0	454.5	1273.6	2880.1	3214.9	3283.2
45°	72.4	76.4	81.2	98.1	176.5	436.3	1256.1	2871.3	3269.7	3306.2
47.5°	67.0	73.7	79.1	91.3	173.2	427.5	1263.5	2838.1	3225.0	3200.0
50°	61.6	70.3	79.8	75.8	165.0	409.9	1272.3	2883.4	3118.8	3114.1
52.5°	56.8	67.0	74.4	62.2	146.8	393.0	1357.5	2943.0	3193.9	3131.0
55°	50.1	60.2	59.5	50.1	119.0	380.1	1424.5	2944.3	3143.2	3166.9
57.5°	45.3	53.4	46.7	41.9	87.9	317.9	1315.6	2468.8	2690.7	2732.6
60°	41.9	52.1	35.2	33.1	57.5	229.3	1148.5	1912.2	2138.7	2217.9
62.5°	38.6	49.4	27.7	27.1	39.9	163.0	944.2	1600.3	1843.2	1950.7
65°	33.8	35.2	22.3	21.0	28.4	87.9	574.9	1101.8	1377.8	1417.7
67.5°	27.7	27.1	18.3	16.9	18.9	42.6	253.6	551.9	798.8	865.8
70°	22.3	22.3	15.6	13.5	13.5	19.6	66.3	219.8	361.2	399.7
72.5°	16.2	16.9	12.2	10.8	10.1	9.5	10.8	44.0	94.7	121.1
75°	14.2	14.9	12.2	9.5	7.4	6.1	4.7	4.1	5.4	8.8
77.5°	15.6	15.6	12.9	8.8	6.8	4.7	2.7	1.4	1.4	0.7
80°	19.6	20.3	16.9	11.5	8.1	5.4	3.4	1.4	0.7	0.7
82.5°	21.0	23.0	18.9	14.2	10.1	6.1	3.4	0.7	0.0	0.0
85°	5.4	8.8	14.9	12.9	10.1	6.1	3.4	0.7	0.0	0.0
87.5°	0.0	0.7	2.0	2.0	2.7	2.7	2.0	0.7	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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