

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P386168

Luminaire Tested: GAW-SA1D-735-U-SLR-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386168
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA1D-735-U-SLR-HSS
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5771.6 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

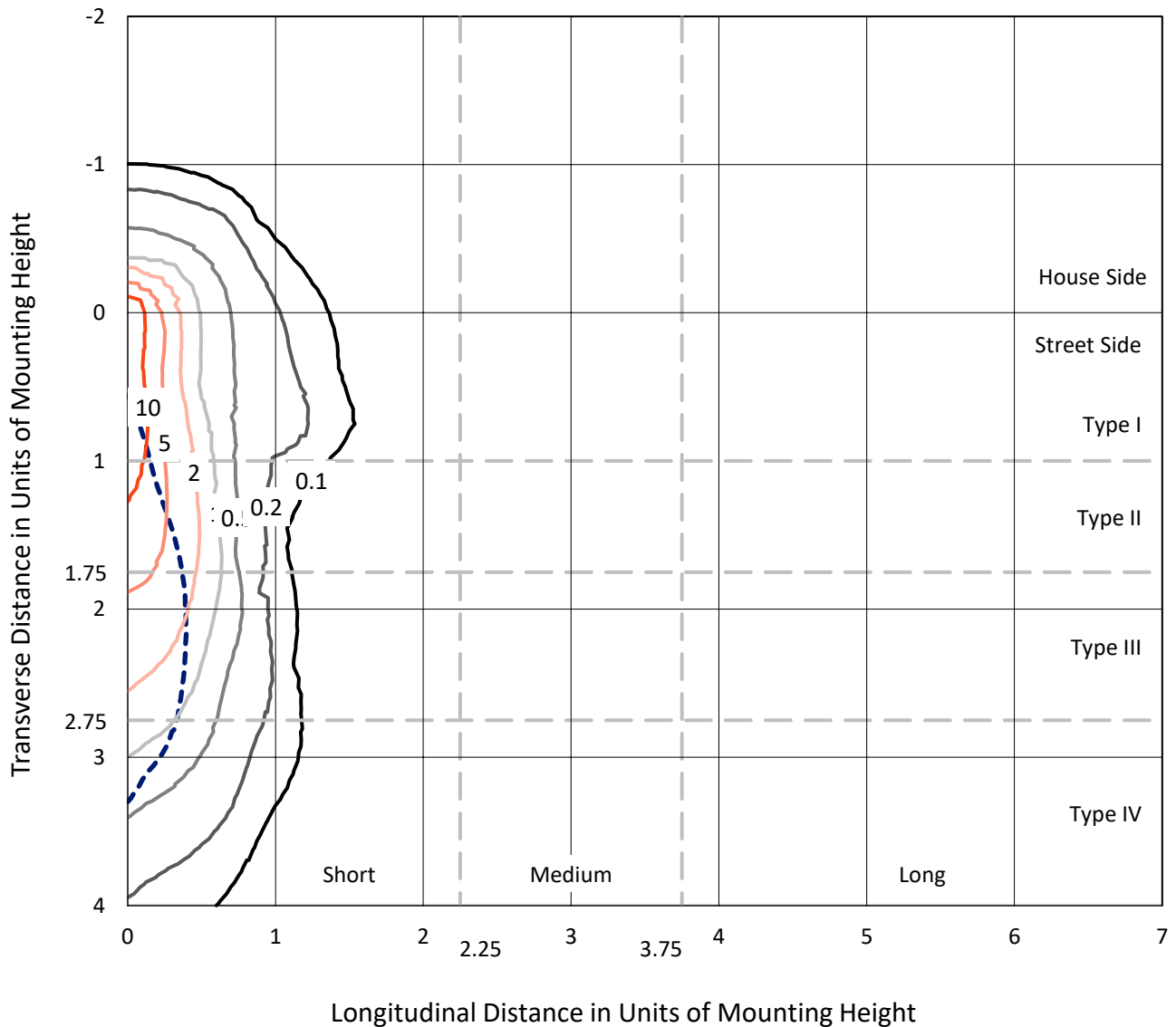
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

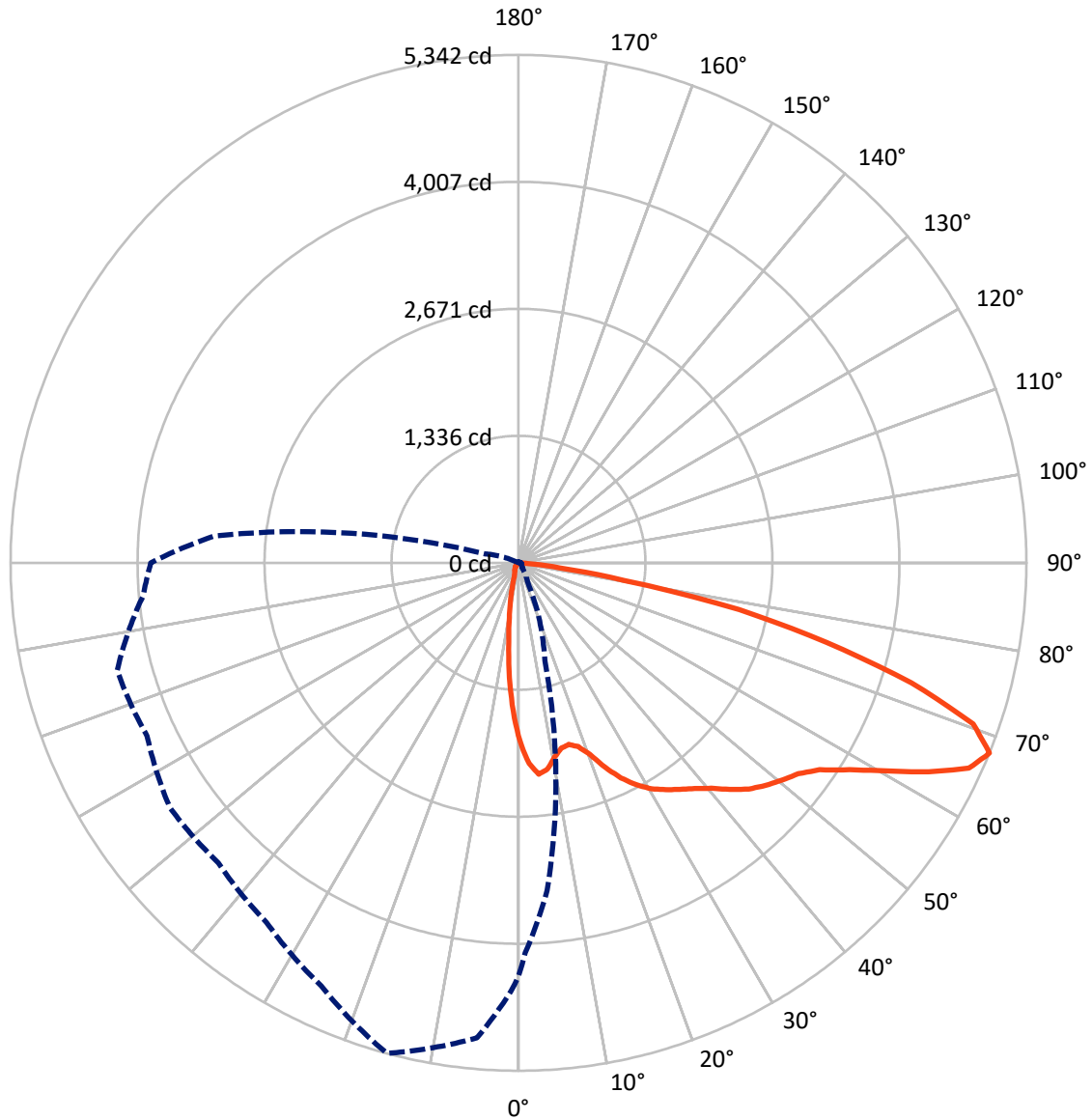
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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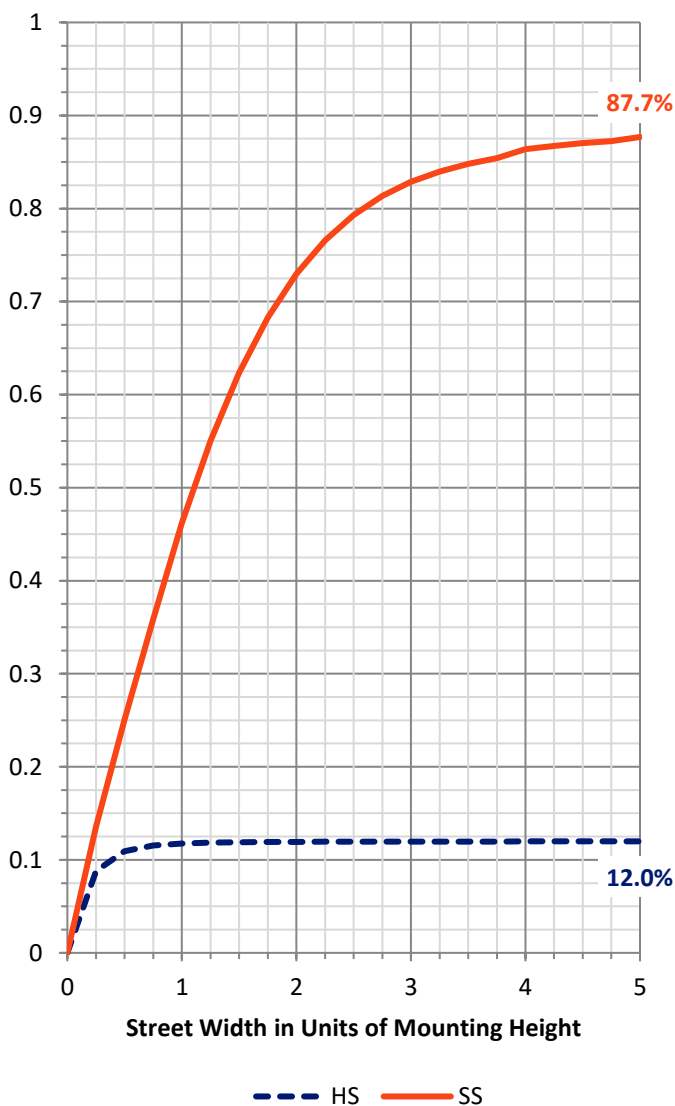
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	698.5	0.0	698.5
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	5073.1	0.0	5073.1
	% Fixture	87.9	0.0	87.9
Total	Lumens	5771.6	0.0	5771.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.3	2.5
10°-20°	287.2	5.0
20°-30°	407.9	7.1
30°-40°	602.4	10.4
40°-50°	868.8	15.1
50°-60°	1219.6	21.1
60°-70°	1421.7	24.6
70°-80°	726.8	12.6
80°-90°	92.8	1.6
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°	5771.6	100.0
0°-180°	5771.6	100.0

Coefficient of Utilization

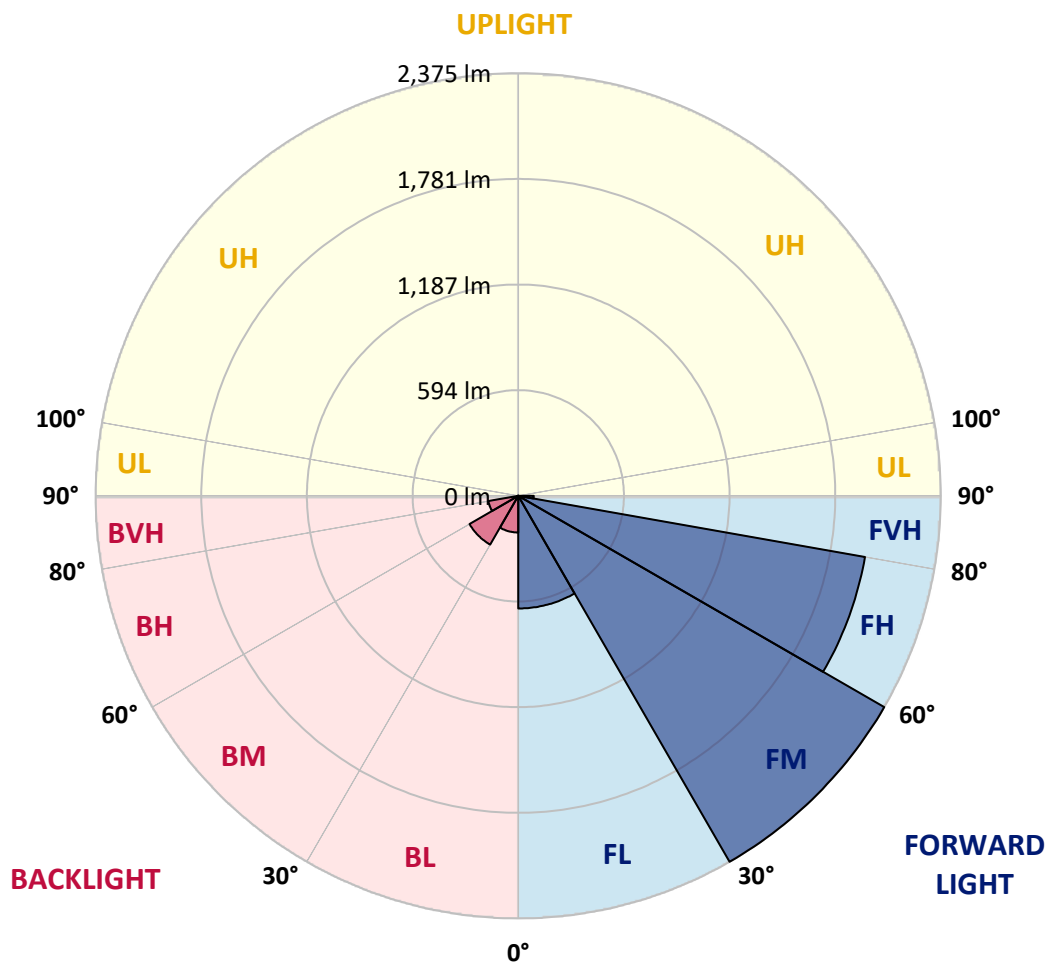


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	633.0	11.0			
FM (30°-60°)	2374.5	41.1			
FH (60°-80°)	1978.3	34.3			G2/5000
FVH (80°-90°)	87.2	1.5			G1/100
BL (0°-30°)	206.3	3.6	B1/500		
BM (30°-60°)	316.3	5.5	B1/1000		
BH (60°-80°)	170.3	2.9	B1/500		G1/500
BVH (80°-90°)	5.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1880.1	1880.1	1880.1	1880.1	1880.1	1880.1	1880.1	1880.1	1880.1	1880.1	1880.1
2.5°	2058.7	2042.8	2025.3	1968.1	1915.1	1854.4	1805.0	1770.5	1727.3	1671.2	1657.0
5°	2043.8	2026.9	1972.0	1844.8	1733.6	1625.2	1520.8	1459.5	1383.5	1306.4	1287.3
7.5°	1895.4	1877.7	1798.4	1624.2	1474.3	1318.0	1182.3	1098.3	1012.5	941.9	904.5
10°	1740.9	1721.5	1632.4	1421.0	1236.4	1095.1	995.6	915.4	834.3	758.7	698.6
12.5°	1634.5	1609.1	1512.3	1272.8	1112.1	1016.0	923.1	827.1	717.2	636.3	570.1
15°	1590.0	1561.0	1458.8	1215.7	1068.0	955.4	834.3	716.4	587.6	494.9	434.2
17.5°	1624.4	1586.7	1477.1	1211.8	1012.8	859.4	706.2	568.0	428.2	334.4	291.2
20°	1741.4	1691.9	1552.8	1210.8	945.8	745.4	551.2	394.8	282.2	227.0	204.2
22.5°	1925.8	1860.4	1661.6	1219.5	876.6	625.6	398.1	268.2	211.9	183.2	169.8
25°	2148.3	2072.6	1818.3	1250.4	816.0	509.2	289.3	211.9	178.9	157.7	146.5
27.5°	2359.9	2298.4	2016.2	1295.0	768.9	415.0	234.8	179.6	152.8	138.9	129.9
30°	2571.3	2493.9	2219.4	1348.0	712.2	351.3	206.5	163.8	137.0	122.2	116.5
32.5°	2725.0	2660.7	2378.5	1386.3	651.8	309.8	184.6	149.8	127.9	112.9	104.5
35°	2905.7	2833.0	2515.0	1394.7	613.0	283.5	166.0	134.8	111.0	97.6	88.6
37.5°	3100.9	3010.5	2672.5	1376.2	582.7	270.7	152.0	127.9	103.6	90.0	80.4
40°	3317.0	3214.7	2823.7	1349.3	552.8	266.3	141.4	122.8	97.9	84.0	74.1
42.5°	3544.4	3423.9	2954.7	1321.2	534.0	251.3	140.3	117.6	93.5	78.4	68.7
45°	3735.6	3613.4	3089.2	1312.0	520.6	234.8	144.9	114.0	90.5	74.1	64.5
47.5°	3887.9	3772.2	3227.0	1332.7	512.9	219.8	132.1	118.6	88.9	70.3	61.0
50°	4069.7	3938.8	3421.2	1394.7	501.7	204.8	119.5	135.9	88.9	67.8	58.0
52.5°	4297.7	4168.2	3637.7	1491.0	479.3	184.0	107.5	136.2	89.7	64.5	54.1
55°	4584.6	4490.5	3947.0	1596.6	443.5	153.4	93.0	117.0	86.4	58.5	50.5
57.5°	4859.7	4782.8	4228.9	1668.7	395.7	119.8	81.0	94.3	79.0	51.4	45.1
59°	4934.8	4850.9	4332.2	1672.0	359.8	104.5	75.0	78.0	77.4	48.1	41.8
60°	4934.8	4845.7	4362.0	1654.6	333.9	96.0	71.1	69.4	80.7	45.9	39.9
62.5°	4845.4	4720.2	4265.2	1536.1	272.3	81.7	62.1	57.4	72.4	41.3	35.2
65°	4659.5	4477.2	3935.5	1322.0	242.8	75.0	53.5	47.1	50.4	36.4	30.9
67.5°	4349.4	4102.2	3460.0	1068.0	231.1	73.0	46.2	39.9	38.0	31.2	27.1
70°	3803.4	3529.1	2882.7	839.7	220.9	72.1	38.8	33.6	30.6	26.2	22.9
72.5°	2768.2	2482.2	2046.7	656.5	214.9	73.8	31.2	28.2	25.2	20.5	17.8
75°	1583.4	1396.1	1150.3	433.6	183.2	70.5	24.0	23.5	18.0	14.7	12.3
77.5°	818.1	793.2	689.3	166.6	87.7	30.9	15.9	13.7	10.7	9.0	7.4
80°	353.0	349.2	302.1	48.1	23.2	17.2	9.0	5.7	4.9	3.9	3.0
82.5°	121.9	121.9	107.5	16.2	10.4	8.5	1.1	0.0	0.0	0.0	0.0
85°	24.6	27.6	19.4	0.0	3.6	0.0	0.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1880.1	1880.1	1880.1	1880.1	1880.1	1880.1	1880.1	1880.1	1880.1	1880.1	1880.1
2.5°	1639.7	1606.6	1604.5	1583.7	1557.7	1546.0	1539.1	1551.1	1566.0	1567.6	1589.7
5°	1272.8	1238.1	1252.6	1215.7	1223.1	1215.7	1203.6	1205.8	1212.4	1191.9	1217.3
7.5°	893.8	867.6	884.3	874.4	887.5	892.7	885.4	874.4	842.2	838.3	860.5
10°	673.7	644.0	626.2	607.6	611.6	620.1	617.4	609.5	589.0	590.0	611.4
12.5°	541.4	508.0	472.8	427.1	415.9	422.2	415.9	411.3	391.5	393.2	412.0
15°	410.7	383.4	346.4	309.8	289.8	291.8	274.2	261.9	249.6	234.8	246.4
17.5°	277.2	260.6	249.6	238.7	214.9	209.5	187.3	163.5	154.2	147.4	152.3
20°	196.3	187.3	182.9	182.3	168.7	161.9	140.3	125.5	120.9	119.5	122.5
22.5°	164.0	157.5	151.2	147.7	140.8	132.9	116.5	109.1	105.8	104.2	106.3
25°	142.7	137.8	131.2	125.2	122.5	114.0	102.3	96.8	94.6	93.0	94.0
27.5°	126.9	122.5	114.8	111.0	108.8	101.5	91.3	87.0	85.0	84.5	84.2
30°	114.3	110.2	103.1	98.7	94.9	88.3	82.3	78.0	76.0	75.4	75.0
32.5°	101.7	98.4	93.8	89.4	85.3	79.3	74.1	70.5	67.5	67.0	66.7
35°	85.9	82.6	80.1	79.8	76.0	70.3	66.4	61.8	59.4	58.5	58.8
37.5°	76.3	72.0	66.4	68.4	67.3	63.1	58.0	53.4	50.8	50.4	50.4
40°	70.3	65.7	59.4	56.1	59.4	58.5	50.4	45.7	43.2	42.9	42.4
42.5°	64.5	59.8	52.8	47.3	48.9	51.4	43.5	39.1	36.6	36.1	35.2
45°	60.4	55.5	47.5	41.3	38.0	43.2	37.2	31.8	30.3	29.2	28.7
47.5°	56.6	51.9	42.9	35.8	30.3	31.2	29.8	26.0	24.3	23.2	22.9
50°	53.4	48.4	38.8	30.6	25.2	22.9	24.0	20.5	19.2	18.0	17.5
52.5°	49.5	44.8	34.5	26.5	21.0	18.0	18.3	16.2	14.7	13.9	13.7
55°	46.5	41.8	30.9	23.2	18.6	14.7	13.2	12.6	11.7	11.2	10.9
57.5°	42.4	38.0	27.3	19.7	15.9	12.0	10.1	10.1	9.9	9.3	9.0
59°	39.9	36.1	25.2	17.8	14.5	10.4	9.0	9.3	9.0	8.5	8.2
60°	38.0	34.5	23.5	16.4	13.7	9.6	8.2	8.7	8.5	7.9	7.6
62.5°	33.6	31.2	20.2	13.7	12.0	7.6	6.9	7.4	7.4	7.1	6.9
65°	29.5	26.8	17.2	11.5	11.2	6.6	5.4	6.6	6.9	6.3	5.7
67.5°	25.7	22.9	15.0	9.3	10.4	5.2	4.1	5.4	7.4	5.7	5.2
70°	21.9	19.2	11.7	7.4	10.9	3.6	3.3	4.9	8.7	6.3	4.9
72.5°	16.9	14.7	8.2	5.4	11.7	2.4	2.4	4.1	9.9	6.9	4.6
75°	11.7	9.6	4.9	3.3	9.6	1.6	1.6	3.9	9.3	6.3	4.4
77.5°	6.9	5.2	1.6	0.3	4.9	0.0	0.3	2.7	6.6	3.9	1.9
80°	2.4	1.1	0.0	0.0	3.0	0.0	0.0	0.0	0.6	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	1880.1	1880.1	1880.1	1880.1	1880.1	1880.1	1880.1	1880.1	1880.1	1880.1	1880.1
2.5°	1595.5	1632.4	1665.5	1715.5	1774.8	1843.2	1902.0	1965.1	2024.5	2049.1	2066.0
5°	1222.5	1268.2	1321.4	1395.0	1492.9	1613.5	1726.4	1854.1	1991.4	2060.0	2124.5
7.5°	864.3	910.8	977.0	1055.1	1173.6	1317.1	1464.8	1641.1	1827.0	1935.6	2042.5
10°	621.5	678.6	740.4	847.3	967.7	1103.8	1255.9	1452.8	1660.0	1780.3	1909.1
12.5°	423.0	488.1	581.6	701.4	842.7	976.1	1108.2	1296.1	1536.7	1655.9	1794.0
15°	253.7	289.8	388.8	527.5	700.8	867.1	1011.7	1200.1	1456.5	1602.6	1746.1
17.5°	156.4	173.0	227.0	340.7	522.8	733.1	931.3	1167.6	1468.1	1645.7	1799.4
20°	124.7	131.2	148.5	201.2	346.4	585.4	840.8	1161.0	1561.8	1780.5	1945.5
22.5°	108.3	114.6	126.1	146.3	217.9	438.3	754.9	1167.0	1696.4	1982.6	2175.2
25°	95.4	100.9	111.8	128.5	159.7	308.7	663.0	1193.8	1871.6	2233.4	2437.9
27.5°	85.3	90.0	100.0	115.4	137.0	215.5	558.8	1226.3	2079.4	2489.9	2691.6
30°	76.0	80.1	89.1	103.3	118.9	165.7	444.6	1248.5	2287.5	2691.6	2872.9
32.5°	68.1	71.1	79.3	91.3	103.3	132.1	338.0	1244.9	2442.0	2859.5	3003.3
35°	59.8	62.8	70.0	80.4	90.0	109.1	265.8	1178.5	2576.6	3033.7	3152.6
37.5°	50.8	54.7	61.5	70.8	77.4	96.0	214.9	1098.3	2713.0	3232.7	3319.2
40°	43.2	47.1	53.1	63.1	67.3	91.0	165.1	1000.7	2866.4	3455.4	3501.8
42.5°	35.8	39.4	45.7	54.4	63.4	78.4	122.2	889.2	3013.8	3645.6	3668.3
45°	29.0	32.5	39.1	47.8	67.8	65.1	94.6	769.7	3132.7	3804.0	3811.3
47.5°	22.9	26.2	33.1	45.1	63.1	51.9	67.5	675.9	3232.5	3927.5	3908.2
50°	17.8	20.5	27.6	51.7	55.2	42.9	51.1	644.7	3321.9	4004.1	3953.8
52.5°	13.9	16.4	22.7	48.4	42.9	35.5	42.9	674.0	3444.4	4067.6	3979.5
55°	11.2	13.7	17.8	27.6	29.2	30.1	36.6	701.4	3655.7	4216.3	4131.3
57.5°	9.3	11.7	14.5	19.4	22.2	25.5	32.5	704.4	3904.9	4463.4	4383.1
59°	8.5	10.7	13.2	17.2	19.4	23.2	30.6	687.9	3992.6	4553.4	4513.2
60°	7.9	10.1	12.3	15.9	18.0	21.9	29.5	672.3	3996.5	4550.1	4568.7
62.5°	6.9	9.0	10.9	13.4	15.3	18.6	26.5	614.6	3834.6	4401.2	4535.4
65°	6.0	7.9	9.9	11.5	13.2	16.7	24.0	509.4	3558.1	4160.8	4307.0
67.5°	5.4	6.9	9.0	10.1	11.7	14.7	21.3	363.1	3212.8	3866.8	3961.7
70°	4.9	6.6	8.2	9.3	10.7	12.9	18.3	208.6	2713.0	3436.5	3504.0
72.5°	4.6	6.3	7.4	8.7	9.6	11.5	16.7	98.2	1986.4	2752.9	2929.2
75°	4.1	5.7	6.9	8.2	9.0	10.4	14.2	47.1	1321.2	1992.2	2192.6
77.5°	2.4	4.6	6.3	7.4	7.9	9.0	11.7	27.1	843.3	1378.9	1624.2
80°	0.0	1.6	4.6	6.3	6.9	7.6	9.0	21.3	451.2	787.8	945.5
82.5°	0.0	0.0	3.3	4.9	4.6	5.2	6.9	13.4	203.5	514.9	580.3
85°	0.0	0.0	1.1	3.9	3.3	2.4	4.6	4.6	44.5	260.6	325.1
87.5°	0.0	0.0	0.0	0.3	1.6	1.1	1.9	0.6	0.3	19.4	78.7
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°	1880.1	1880.1	1880.1	1880.1	1880.1	1880.1	1880.1	1880.1	1880.1	1880.1
2.5°	2125.4	2145.6	2179.8	2195.9	2187.9	2154.3	2114.2	2073.1	2049.1	2058.7
5°	2256.0	2360.2	2420.4	2440.4	2407.0	2331.6	2232.8	2102.6	2056.4	2043.8
7.5°	2256.0	2452.1	2576.3	2598.1	2523.8	2375.8	2190.8	1987.6	1920.0	1895.4
10°	2176.8	2443.6	2616.7	2651.4	2547.5	2326.3	2078.3	1846.5	1766.3	1740.9
12.5°	2087.3	2374.7	2557.1	2604.9	2519.6	2277.1	2000.4	1751.0	1656.7	1634.5
15°	2032.4	2290.0	2440.9	2475.6	2439.5	2248.4	1981.8	1722.3	1611.3	1590.0
17.5°	2052.1	2224.4	2278.8	2299.0	2323.3	2238.3	2032.4	1785.2	1644.7	1624.4
20°	2126.2	2155.2	2127.0	2152.4	2218.1	2248.2	2153.0	1937.2	1768.5	1741.4
22.5°	2252.0	2119.4	2040.4	2050.4	2130.3	2280.7	2337.3	2154.3	1959.7	1925.8
25°	2398.6	2148.3	1992.2	1983.2	2065.3	2323.6	2505.7	2390.6	2185.8	2148.3
27.5°	2582.8	2213.4	1982.4	1973.4	2042.5	2363.8	2645.7	2624.1	2423.9	2359.9
30°	2725.0	2277.4	2011.6	1990.9	2065.3	2391.7	2758.1	2822.3	2613.7	2571.3
32.5°	2827.0	2352.9	2059.2	2029.1	2129.2	2439.8	2844.8	3003.9	2789.2	2725.0
35°	2904.6	2434.9	2136.0	2086.6	2217.3	2512.8	2925.9	3197.2	2976.0	2905.7
37.5°	2977.4	2550.0	2256.0	2197.0	2355.3	2630.4	3011.8	3416.5	3184.9	3100.9
40°	3078.8	2680.5	2441.2	2388.7	2587.5	2790.7	3119.0	3645.1	3422.5	3317.0
42.5°	3180.2	2820.4	2630.7	2644.9	2877.0	2985.3	3257.3	3886.8	3657.2	3544.4
45°	3272.9	2964.8	2900.6	2966.1	3145.8	3198.8	3394.9	4026.5	3844.4	3735.6
47.5°	3355.5	3145.3	3168.8	3343.5	3451.5	3392.2	3497.7	4147.1	3983.9	3887.9
50°	3451.5	3378.8	3522.4	3769.5	3803.4	3567.2	3591.2	4289.8	4146.9	4069.7
52.5°	3556.5	3624.8	3913.9	4131.8	4120.8	3757.2	3685.2	4449.8	4370.2	4297.7
55°	3675.8	3823.6	4258.6	4470.9	4461.6	3969.4	3841.1	4647.5	4650.2	4584.6
57.5°	3852.6	3994.8	4492.7	4745.1	4760.7	4214.4	4105.2	4869.0	4903.4	4859.7
59°	3979.5	4105.8	4585.4	4859.7	4923.1	4403.9	4298.3	4997.5	4974.7	4934.8
60°	4073.6	4176.4	4631.3	4919.5	5017.4	4532.4	4440.8	5072.9	4983.2	4934.8
62.5°	4306.3	4330.0	4714.2	4987.3	5126.0	4817.9	4841.6	5201.4	4924.5	4845.4
65°	4414.8	4427.1	4713.1	4866.0	5021.0	5040.1	5205.3	5205.3	4781.0	4659.5
67.5°	4369.4	4310.0	4479.3	4463.4	4618.2	4908.1	5342.0	5014.4	4506.4	4349.4
70°	4000.3	3771.9	3696.8	3703.6	3822.0	4269.1	5071.3	4452.8	3986.9	3803.4
72.5°	3328.5	2780.8	2595.1	2807.0	2837.9	3280.8	4321.9	3353.4	2940.2	2768.2
75°	2677.2	1960.2	1658.3	1882.0	1934.5	2401.0	3343.2	2088.5	1717.4	1583.4
77.5°	1923.3	1407.0	1189.9	1174.3	1242.2	1522.8	2372.3	1051.1	876.6	818.1
80°	1092.6	926.1	997.2	940.9	975.1	952.1	1127.1	461.0	377.6	353.0
82.5°	659.5	547.4	592.8	493.6	624.5	543.8	434.2	147.7	128.2	121.9
85°	429.0	299.1	155.8	104.5	215.2	347.5	97.0	40.2	30.9	24.6
87.5°	148.0	76.3	7.6	3.3	22.9	64.8	3.6	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

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