

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: P386392

Luminaire Tested: GAW-SA2A-735-U-SLR-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386392
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-SA2A-735-U-SLR-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6772.1 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

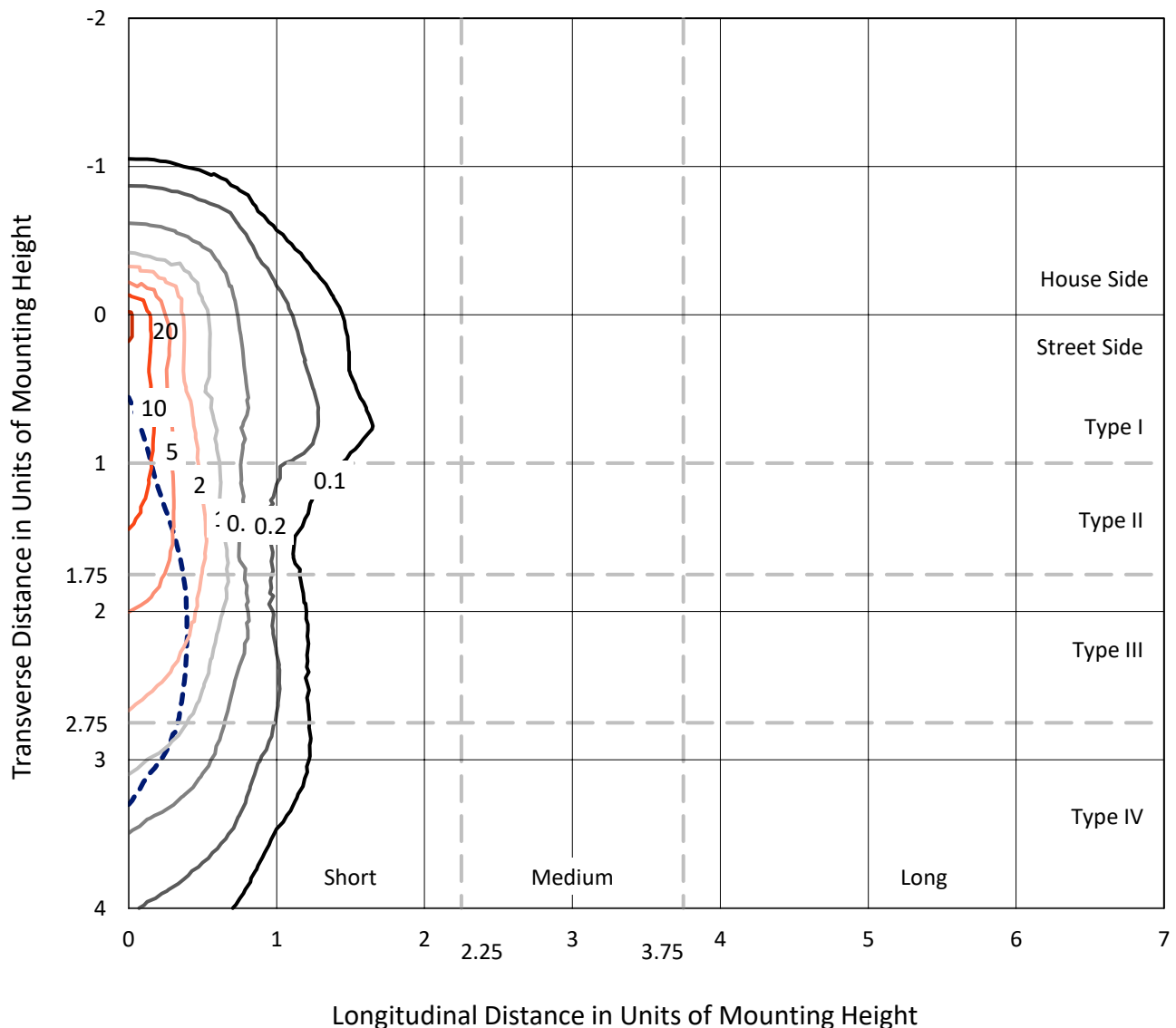
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

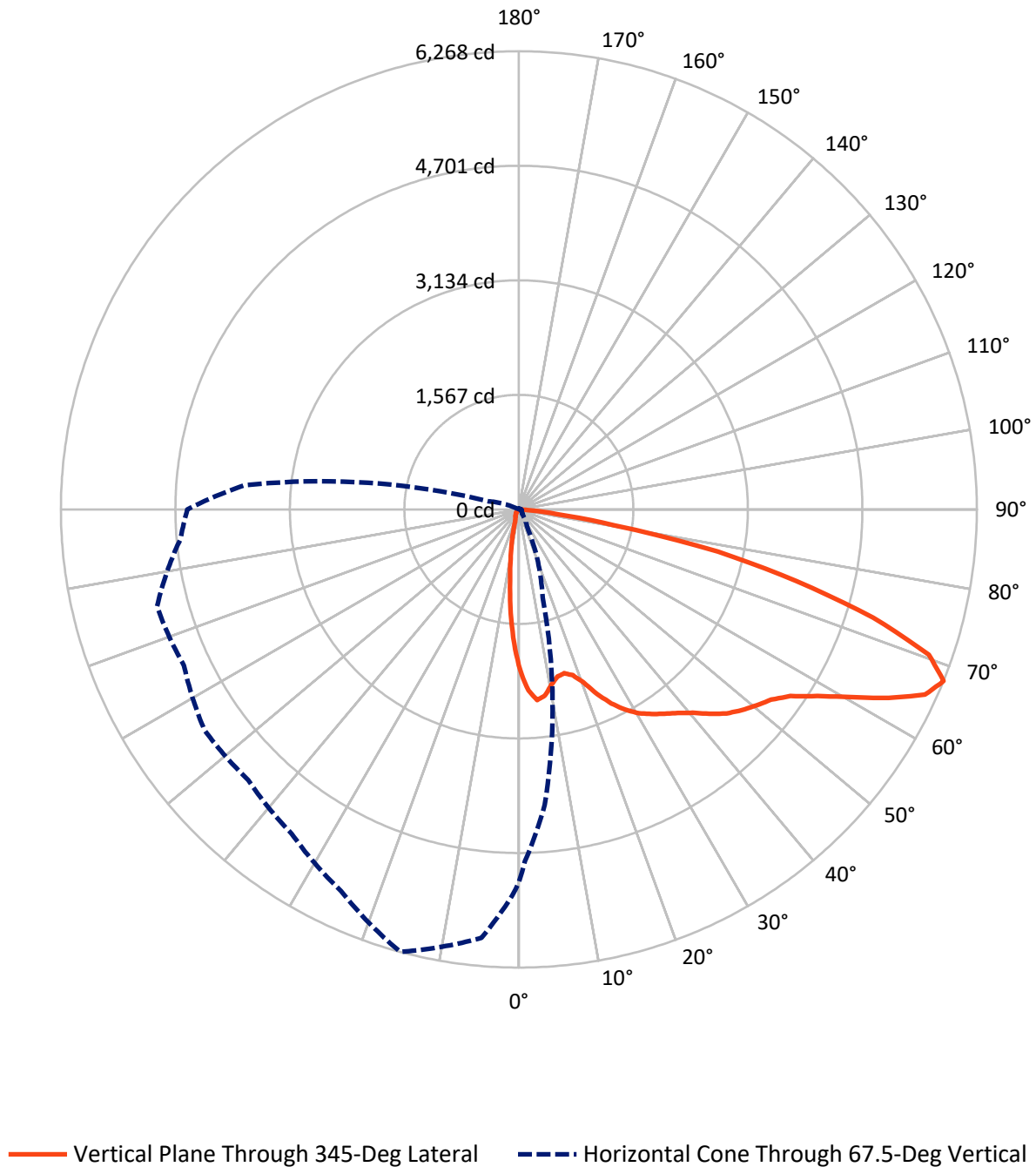
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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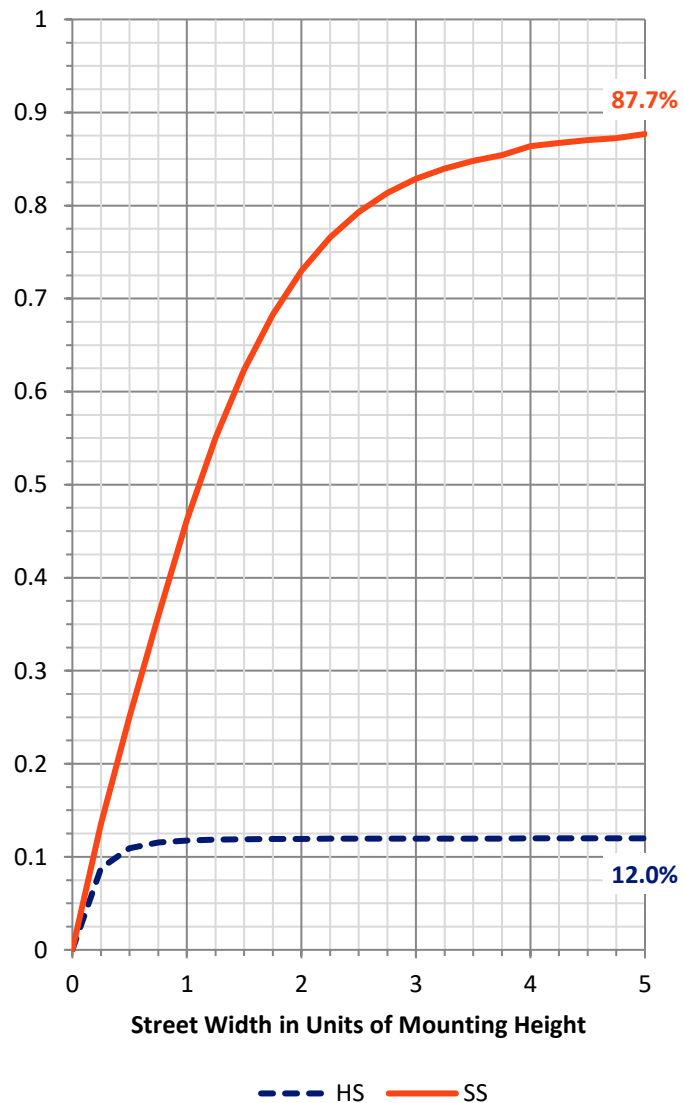
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	819.6	0.0	819.6
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	5952.5	0.0	5952.5
	% Fixture	87.9	0.0	87.9
Total	Lumens	6772.1	0.0	6772.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.3	2.5
10°-20°	337.0	5.0
20°-30°	478.5	7.1
30°-40°	706.8	10.4
40°-50°	1019.4	15.1
50°-60°	1431.1	21.1
60°-70°	1668.2	24.6
70°-80°	852.8	12.6
80°-90°	108.9	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°	6772.1	100.0
0°-180°	6772.1	100.0

Coefficient of Utilization



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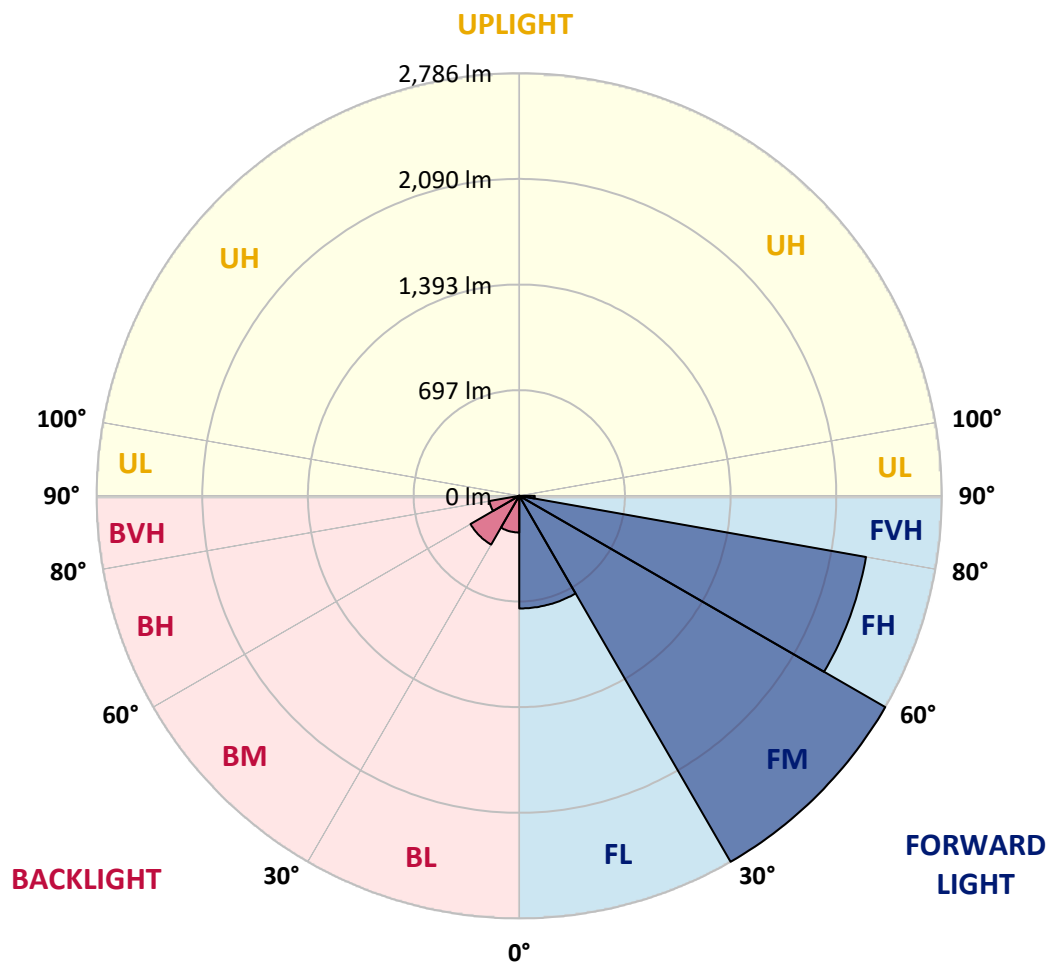
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	742.8	11.0			
FM	(30°-60°)	2786.2	41.1			
FH	(60°-80°)	2321.2	34.3			G2/5000
FVH	(80°-90°)	102.3	1.5			G2/225
BL	(0°-30°)	242.1	3.6	B1/500		
BM	(30°-60°)	371.2	5.5	B1/1000		
BH	(60°-80°)	199.8	2.9	B1/500		G1/500
BVH	(80°-90°)	6.6	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°	2206.0	2206.0	2206.0	2206.0	2206.0	2206.0	2206.0	2206.0	2206.0	2206.0	2206.0
2.5°	2415.5	2396.9	2376.4	2309.3	2247.0	2175.8	2117.8	2077.4	2026.6	1960.9	1944.2
5°	2398.2	2378.3	2313.8	2164.6	2034.1	1907.0	1784.5	1712.6	1623.4	1532.9	1510.5
7.5°	2223.9	2203.1	2110.1	1905.7	1729.9	1546.3	1387.2	1288.8	1188.1	1105.2	1061.3
10°	2042.7	2019.9	1915.3	1667.3	1450.8	1284.9	1168.1	1074.1	978.8	890.3	819.7
12.5°	1917.9	1888.1	1774.5	1493.4	1304.8	1192.2	1083.1	970.5	841.5	746.5	668.9
15°	1865.6	1831.6	1711.6	1426.4	1253.2	1121.0	978.8	840.6	689.4	580.7	509.4
17.5°	1906.0	1861.8	1733.1	1421.9	1188.3	1008.3	828.7	666.3	502.4	392.4	341.7
20°	2043.4	1985.2	1822.0	1420.6	1109.7	874.6	646.8	463.3	331.1	266.3	239.6
22.5°	2259.6	2182.9	1949.6	1430.9	1028.5	734.0	467.2	314.7	248.7	214.9	199.2
25°	2520.8	2431.9	2133.5	1467.1	957.3	597.4	339.4	248.7	209.9	185.2	172.0
27.5°	2769.1	2696.8	2365.8	1519.5	902.2	487.0	275.6	210.8	179.3	163.0	152.4
30°	3017.1	2926.2	2604.1	1581.7	835.8	412.3	242.3	192.2	160.7	143.4	136.7
32.5°	3197.3	3122.0	2790.8	1626.6	764.9	363.5	216.5	175.9	150.1	132.5	122.6
35°	3409.4	3324.0	2950.9	1636.5	719.3	332.7	194.7	158.2	130.3	114.5	104.0
37.5°	3638.5	3532.3	3135.8	1614.7	683.7	317.6	178.4	150.1	121.6	105.6	94.3
40°	3891.9	3771.9	3313.1	1583.3	648.7	312.4	165.9	144.0	114.9	98.4	87.0
42.5°	4158.9	4017.4	3466.8	1550.2	626.6	294.9	164.6	138.0	109.7	92.1	80.5
45°	4383.1	4239.7	3624.7	1539.3	610.9	275.6	170.0	133.8	106.2	87.0	75.7
47.5°	4561.8	4426.1	3786.4	1563.7	601.9	258.0	155.0	139.2	104.3	82.5	71.6
50°	4775.1	4621.5	4014.1	1636.5	588.7	240.3	140.2	159.4	104.3	79.6	68.0
52.5°	5042.8	4890.7	4268.2	1749.4	562.4	215.9	126.1	159.8	105.2	75.7	63.5
55°	5379.3	5268.9	4631.1	1873.3	520.4	180.0	109.1	137.3	101.4	68.7	59.4
57.5°	5702.0	5611.8	4961.9	1958.0	464.2	140.5	95.0	110.7	92.7	60.3	53.0
59°	5790.2	5691.8	5083.2	1961.8	422.2	122.6	87.9	91.4	90.8	56.5	49.1
60°	5790.2	5685.7	5118.1	1941.4	391.7	112.6	83.4	81.4	94.6	53.9	46.9
62.5°	5685.3	5538.4	5004.5	1802.4	319.6	95.9	72.8	67.4	85.0	48.5	41.4
65°	5467.2	5253.2	4617.7	1551.2	284.9	87.9	62.8	55.1	59.0	42.6	36.3
67.5°	5103.4	4813.4	4059.7	1253.2	271.1	85.7	54.2	46.9	44.6	36.5	31.8
70°	4462.7	4140.8	3382.5	985.2	259.3	84.7	45.6	39.5	36.0	30.8	27.0
72.5°	3248.0	2912.5	2401.4	770.3	252.1	86.6	36.5	33.1	29.5	24.0	20.9
75°	1857.9	1638.1	1349.7	508.9	214.9	82.8	28.3	27.6	21.1	17.3	14.5
77.5°	959.9	930.8	808.8	195.4	103.0	36.3	18.6	16.1	12.5	10.6	8.6
80°	414.2	409.7	354.5	56.5	27.2	20.2	10.6	6.8	5.7	4.5	3.6
82.5°	143.1	143.1	126.1	18.9	12.2	10.0	1.3	0.0	0.0	0.0	0.0
85°	28.8	32.4	22.7	0.0	4.1	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°	2206.0	2206.0	2206.0	2206.0	2206.0	2206.0	2206.0	2206.0	2206.0	2206.0	2206.0
2.5°	1924.0	1885.2	1882.6	1858.2	1827.8	1814.0	1805.9	1820.1	1837.4	1839.3	1865.3
5°	1493.4	1452.7	1469.7	1426.4	1435.0	1426.4	1412.3	1414.8	1422.5	1398.5	1428.3
7.5°	1048.7	1018.0	1037.6	1026.0	1041.4	1047.5	1038.9	1026.0	988.1	983.6	1009.7
10°	790.5	755.6	734.7	712.9	717.7	727.7	724.5	715.2	691.0	692.3	717.3
12.5°	635.2	596.1	554.7	501.2	488.0	495.3	488.0	482.6	459.5	461.3	483.5
15°	481.9	449.8	406.5	363.5	340.1	342.3	321.7	307.4	292.9	275.6	289.1
17.5°	325.3	305.8	292.9	280.1	252.1	245.7	219.7	191.8	180.9	172.9	178.7
20°	230.3	219.7	214.7	214.0	197.9	189.9	164.6	147.3	141.8	140.2	143.7
22.5°	192.5	184.8	177.5	173.2	165.2	155.9	136.7	128.0	124.2	122.2	124.8
25°	167.5	161.7	154.0	146.9	143.7	133.8	120.0	113.6	111.0	109.1	110.4
27.5°	148.9	143.7	134.7	130.3	127.7	119.0	107.2	102.0	99.8	99.1	98.8
30°	134.1	129.3	121.0	115.8	111.3	103.6	96.6	91.4	89.1	88.6	87.9
32.5°	119.3	115.5	110.0	104.9	100.1	93.0	87.0	82.8	79.3	78.6	78.3
35°	100.7	96.9	94.0	93.7	89.1	82.5	78.0	72.5	69.6	68.7	69.0
37.5°	89.5	84.4	78.0	80.2	78.9	74.1	68.0	62.6	59.7	59.0	59.0
40°	82.5	77.0	69.6	65.8	69.6	68.7	59.0	53.5	50.7	50.4	49.7
42.5°	75.7	70.3	61.9	55.5	57.4	60.3	51.0	45.8	43.0	42.4	41.4
45°	70.9	65.1	55.8	48.5	44.6	50.7	43.6	37.2	35.6	34.3	33.7
47.5°	66.4	61.0	50.4	42.0	35.6	36.5	34.9	30.4	28.6	27.2	27.0
50°	62.6	56.7	45.6	36.0	29.5	27.0	28.3	24.0	22.5	21.1	20.6
52.5°	58.1	52.6	40.4	31.1	24.7	21.1	21.5	18.9	17.3	16.3	16.1
55°	54.6	49.1	36.3	27.2	21.8	17.3	15.4	14.7	13.8	13.2	12.9
57.5°	49.7	44.6	32.1	23.1	18.6	14.1	11.8	11.8	11.6	10.9	10.6
59°	46.9	42.4	29.5	20.9	17.0	12.2	10.6	10.9	10.6	10.0	9.6
60°	44.6	40.4	27.6	19.3	16.1	11.3	9.6	10.2	10.0	9.3	9.0
62.5°	39.5	36.5	23.8	16.1	14.1	9.0	8.0	8.6	8.6	8.4	8.0
65°	34.7	31.5	20.2	13.4	13.2	7.7	6.4	7.7	8.0	7.4	6.8
67.5°	30.2	27.0	17.7	10.9	12.2	6.1	4.8	6.4	8.6	6.8	6.1
70°	25.6	22.5	13.8	8.6	12.9	4.1	3.9	5.7	10.2	7.4	5.7
72.5°	19.9	17.3	9.6	6.4	13.8	2.9	2.9	4.8	11.6	8.0	5.4
75°	13.8	11.3	5.7	3.9	11.3	1.9	1.9	4.5	10.9	7.4	5.2
77.5°	8.0	6.1	1.9	0.3	5.7	0.0	0.3	3.2	7.7	4.5	2.3
80°	2.9	1.3	0.0	0.0	3.6	0.0	0.0	0.0	0.7	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°	2206.0	2206.0	2206.0	2206.0	2206.0	2206.0	2206.0	2206.0	2206.0	2206.0	2206.0
2.5°	1872.0	1915.3	1954.1	2012.8	2082.4	2162.7	2231.6	2305.7	2375.4	2404.3	2424.2
5°	1434.5	1488.0	1550.6	1636.9	1751.7	1893.2	2025.7	2175.5	2336.6	2417.1	2492.8
7.5°	1014.2	1068.7	1146.3	1238.0	1377.0	1545.4	1718.6	1925.6	2143.8	2271.1	2396.6
10°	729.3	796.3	868.8	994.3	1135.4	1295.1	1473.5	1704.5	1947.7	2088.9	2240.0
12.5°	496.3	572.7	682.4	822.9	988.8	1145.3	1300.3	1520.7	1803.1	1942.9	2104.9
15°	297.7	340.1	456.2	618.9	822.3	1017.4	1187.0	1408.1	1709.0	1880.4	2048.8
17.5°	183.6	203.1	266.3	399.7	613.4	860.1	1092.7	1369.9	1722.5	1931.0	2111.4
20°	146.3	154.0	174.2	236.2	406.5	686.9	986.6	1362.2	1832.6	2089.2	2282.6
22.5°	127.0	134.4	147.9	171.6	255.7	514.3	885.8	1369.3	1990.4	2326.3	2552.1
25°	112.0	118.4	131.2	150.8	187.3	362.2	778.0	1400.7	2196.0	2620.5	2860.5
27.5°	100.1	105.6	117.4	135.4	160.7	252.8	655.8	1438.9	2439.9	2921.4	3158.2
30°	89.1	94.0	104.6	121.3	139.6	194.5	521.6	1464.9	2684.0	3158.2	3370.9
32.5°	79.8	83.4	93.0	107.2	121.3	155.0	396.5	1460.8	2865.3	3355.2	3523.9
35°	70.3	73.8	82.1	94.3	105.6	128.0	311.9	1382.8	3023.2	3559.6	3699.1
37.5°	59.7	64.2	72.1	83.1	90.8	112.6	252.1	1288.8	3183.2	3793.1	3894.5
40°	50.7	55.1	62.3	74.1	78.9	106.8	193.8	1174.2	3363.2	4054.2	4108.8
42.5°	42.0	46.2	53.5	63.9	74.4	92.1	143.4	1043.3	3536.2	4277.5	4304.2
45°	34.0	38.1	45.8	56.2	79.6	76.4	111.0	903.1	3675.7	4463.3	4472.0
47.5°	27.0	30.8	38.8	53.0	74.1	61.0	79.3	793.0	3792.8	4608.3	4585.6
50°	20.9	24.0	32.4	60.6	64.8	50.4	60.0	756.5	3897.7	4698.2	4639.1
52.5°	16.3	19.3	26.6	56.7	50.4	41.7	50.4	790.9	4041.5	4772.6	4669.3
55°	13.2	16.1	20.9	32.4	34.3	35.3	43.0	822.9	4289.5	4947.1	4847.4
57.5°	10.9	13.8	17.0	22.7	26.0	29.9	38.1	826.5	4581.7	5237.1	5142.8
59°	10.0	12.5	15.4	20.2	22.7	27.2	36.0	807.2	4684.7	5342.7	5295.6
60°	9.3	11.8	14.5	18.6	21.1	25.6	34.7	788.9	4689.2	5338.9	5360.7
62.5°	8.0	10.6	12.9	15.7	17.9	21.8	31.1	721.2	4499.2	5164.0	5321.6
65°	7.0	9.3	11.6	13.4	15.4	19.5	28.3	597.7	4174.9	4882.0	5053.7
67.5°	6.4	8.0	10.6	11.8	13.8	17.3	25.0	426.0	3769.7	4537.1	4648.4
70°	5.7	7.7	9.6	10.9	12.5	15.1	21.5	244.8	3183.2	4032.2	4111.4
72.5°	5.4	7.4	8.6	10.2	11.3	13.4	19.5	115.2	2330.8	3230.1	3437.0
75°	4.8	6.8	8.0	9.6	10.6	12.2	16.7	55.1	1550.2	2337.5	2572.7
77.5°	2.9	5.4	7.4	8.6	9.3	10.6	13.8	31.8	989.5	1617.9	1905.7
80°	0.0	1.9	5.4	7.4	8.0	9.0	10.6	25.0	529.3	924.3	1109.4
82.5°	0.0	0.0	3.9	5.7	5.4	6.1	8.0	15.7	238.7	604.1	680.8
85°	0.0	0.0	1.3	4.5	3.9	2.9	5.4	5.4	52.3	305.8	381.5
87.5°	0.0	0.0	0.0	0.3	1.9	1.3	2.3	0.7	0.3	22.7	92.4
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°	2206.0	2206.0	2206.0	2206.0	2206.0	2206.0	2206.0	2206.0	2206.0	2206.0
2.5°	2493.8	2517.5	2557.6	2576.6	2567.3	2527.8	2480.7	2432.5	2404.3	2415.5
5°	2647.1	2769.3	2840.0	2863.4	2824.2	2735.7	2619.9	2467.1	2412.9	2398.2
7.5°	2647.1	2877.2	3022.8	3048.5	2961.3	2787.7	2570.5	2332.0	2252.9	2223.9
10°	2554.1	2867.2	3070.3	3111.1	2989.2	2729.6	2438.6	2166.5	2072.5	2042.7
12.5°	2449.2	2786.3	3000.3	3056.5	2956.4	2671.8	2347.2	2054.5	1943.9	1917.9
15°	2384.7	2686.9	2864.0	2904.8	2862.4	2638.2	2325.4	2020.9	1890.6	1865.6
17.5°	2407.8	2609.9	2673.8	2697.5	2726.0	2626.3	2384.7	2094.7	1929.8	1906.0
20°	2494.7	2528.8	2495.7	2525.6	2602.5	2637.8	2526.2	2273.1	2075.1	2043.4
22.5°	2642.3	2486.8	2394.0	2405.9	2499.5	2676.1	2742.4	2527.8	2299.4	2259.6
25°	2814.2	2520.8	2337.5	2327.0	2423.2	2726.4	2940.0	2804.9	2564.6	2520.8
27.5°	3030.5	2597.0	2325.9	2315.4	2396.6	2773.6	3104.3	3079.0	2844.1	2769.1
30°	3197.3	2672.2	2360.3	2335.9	2423.2	2806.3	3236.2	3311.6	3066.7	3017.1
32.5°	3317.0	2760.7	2416.1	2380.8	2498.2	2862.7	3337.9	3524.6	3272.8	3197.3
35°	3408.1	2857.0	2506.3	2448.2	2601.6	2948.4	3433.1	3751.4	3491.8	3409.4
37.5°	3493.5	2992.1	2647.1	2577.8	2763.6	3086.4	3533.9	4008.7	3737.0	3638.5
40°	3612.5	3145.1	2864.3	2802.8	3035.9	3274.4	3659.7	4277.0	4015.8	3891.9
42.5°	3731.6	3309.3	3086.7	3103.4	3375.7	3502.8	3822.0	4560.6	4291.1	4158.9
45°	3840.2	3478.7	3403.3	3480.4	3691.1	3753.3	3983.4	4724.5	4510.8	4383.1
47.5°	3937.2	3690.4	3718.0	3923.1	4049.8	3980.1	4104.0	4866.0	4674.4	4561.8
50°	4049.8	3964.4	4132.9	4422.9	4462.7	4185.5	4213.7	5033.5	4865.7	4775.1
52.5°	4173.0	4253.2	4592.3	4848.0	4835.2	4408.5	4324.1	5221.2	5127.8	5042.8
55°	4312.9	4486.5	4996.8	5245.9	5234.9	4657.4	4506.9	5453.1	5456.3	5379.3
57.5°	4520.5	4687.3	5271.5	5567.6	5585.9	4944.9	4816.8	5712.9	5753.3	5702.0
59°	4669.3	4817.5	5380.3	5702.0	5776.4	5167.2	5043.4	5863.7	5837.1	5790.2
60°	4779.6	4900.3	5434.1	5772.3	5887.2	5318.0	5210.5	5952.3	5847.1	5790.2
62.5°	5052.7	5080.6	5531.3	5851.9	6014.5	5653.0	5680.9	6103.1	5778.0	5685.3
65°	5180.0	5194.5	5530.0	5709.4	5891.3	5913.8	6107.6	6107.6	5609.6	5467.2
67.5°	5126.8	5057.1	5255.7	5237.1	5418.7	5758.9	6268.0	5883.6	5287.6	5103.4
70°	4693.7	4425.8	4337.6	4345.5	4484.5	5009.0	5950.3	5224.6	4678.0	4462.7
72.5°	3905.4	3262.8	3045.0	3293.6	3329.9	3849.5	5070.9	3934.6	3449.8	3248.0
75°	3141.2	2300.0	1945.8	2208.2	2269.9	2817.1	3922.7	2450.5	2015.1	1857.9
77.5°	2256.7	1651.0	1396.2	1377.9	1457.5	1786.6	2783.5	1233.2	1028.5	959.9
80°	1282.0	1086.6	1170.0	1104.0	1144.1	1117.1	1322.5	540.9	443.0	414.2
82.5°	773.9	642.3	695.5	579.1	732.7	638.1	509.4	173.2	150.5	143.1
85°	503.4	351.0	182.9	122.6	252.5	407.8	113.9	47.2	36.3	28.8
87.5°	173.6	89.5	9.0	3.9	27.0	76.0	4.1	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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