

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: P385718

Luminaire Tested: GAW-SA1B-735-U-SLL-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P385718
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA1B-735-U-SLL-HSS
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4251.7 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

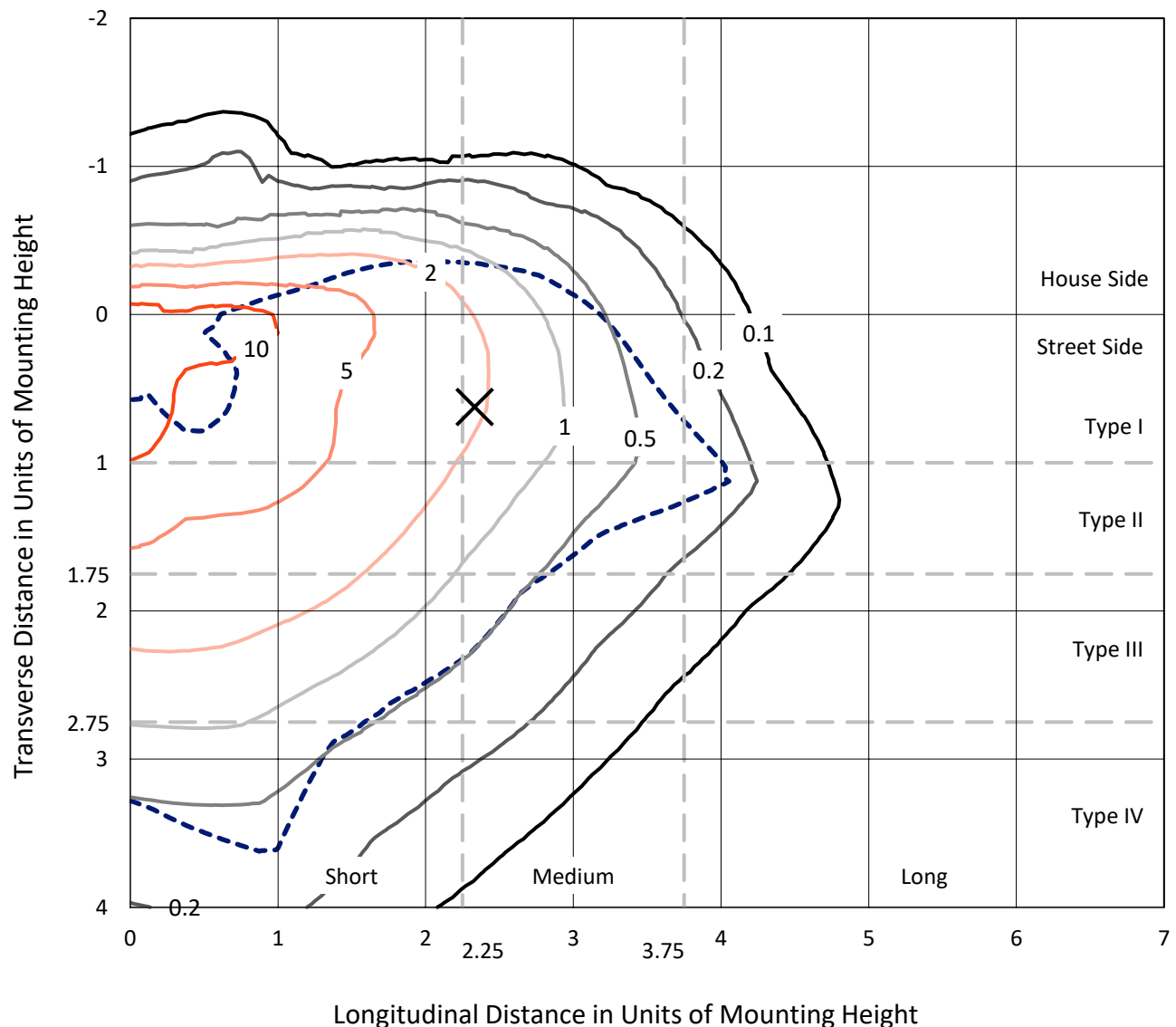
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

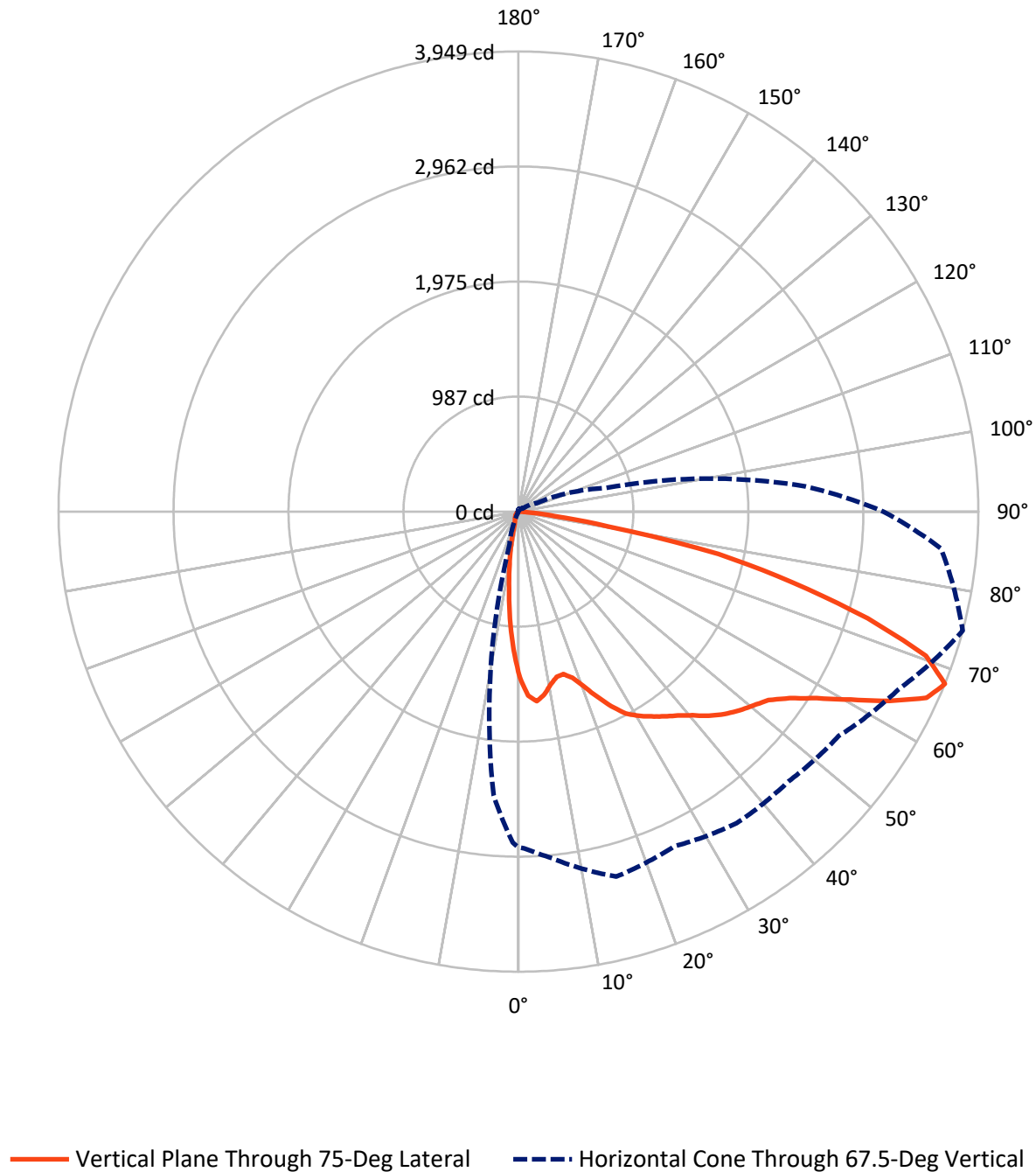
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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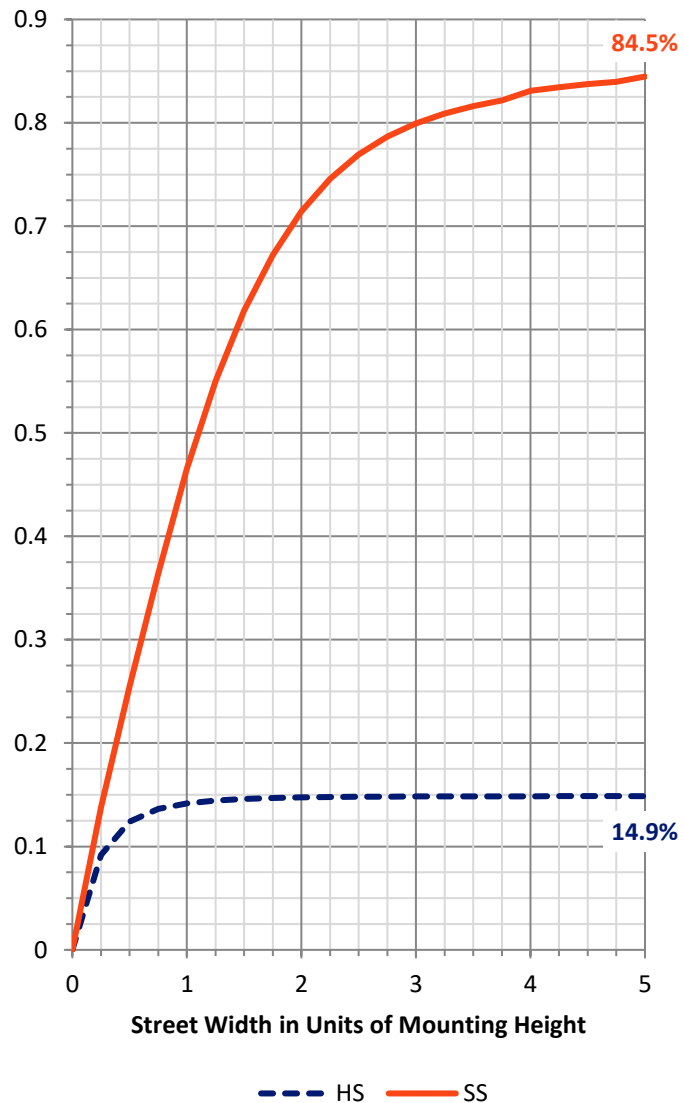
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	638.0	0.0	638.0
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	3613.7	0.0	3613.7
	% Fixture	85.0	0.0	85.0
Total	Lumens	4251.7	0.0	4251.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.2	2.5
10°-20°	213.0	5.0
20°-30°	301.4	7.1
30°-40°	443.1	10.4
40°-50°	636.9	15.0
50°-60°	896.6	21.1
60°-70°	1047.2	24.6
70°-80°	534.2	12.6
80°-90°	71.0	1.7
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°	4251.7	100.0
0°-180°	4251.7	100.0

Coefficient of Utilization



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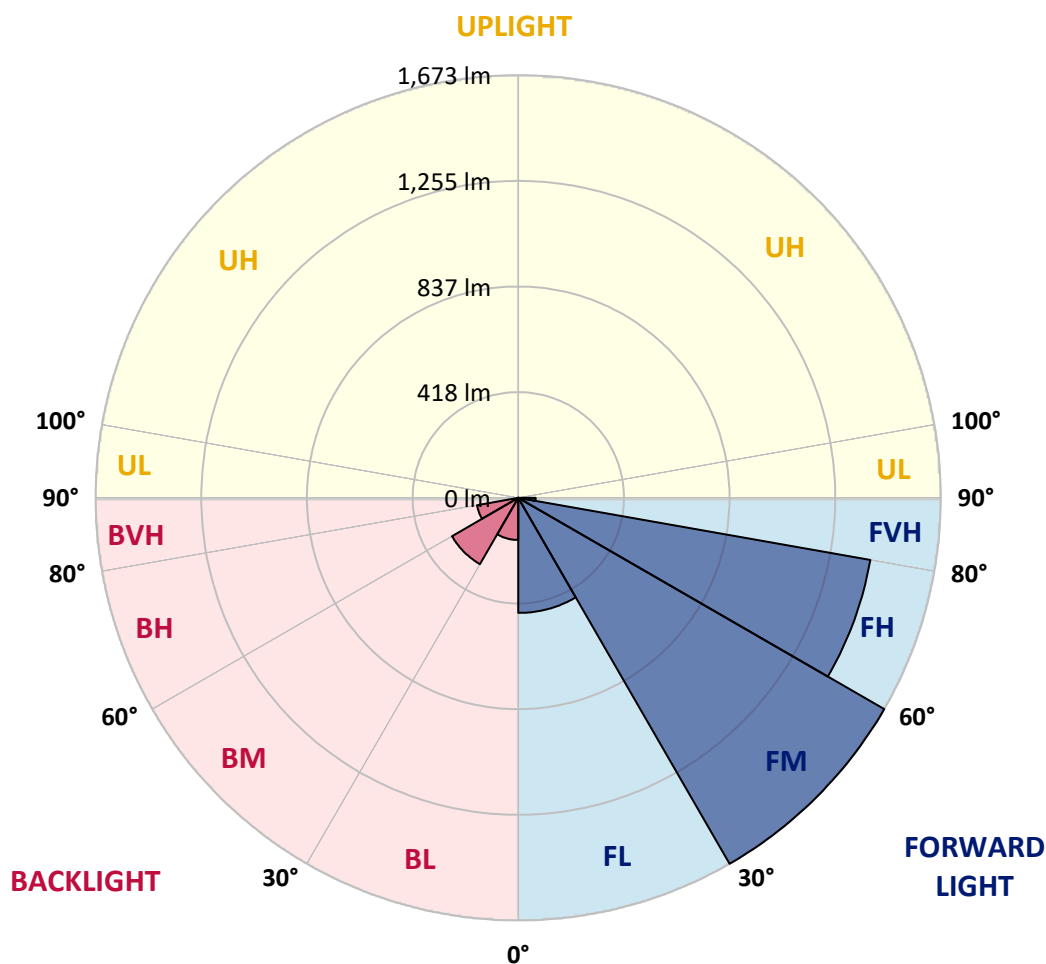
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	455.8	10.7			
FM	(30°-60°)	1673.4	39.4			
FH	(60°-80°)	1415.7	33.3			G1/1800
FVH	(80°-90°)	68.8	1.6			G1/100
BL	(0°-30°)	166.8	3.9	B1/500		
BM	(30°-60°)	303.3	7.1	B1/1000		
BH	(60°-80°)	165.7	3.9	B1/500		G1/500
BVH	(80°-90°)	2.2	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-G1

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1426.4	1426.4	1426.4	1426.4	1426.4	1426.4	1426.4	1426.4	1426.4	1426.4	1426.4
2.5°	1546.2	1548.6	1561.1	1590.1	1621.8	1624.1	1645.5	1623.6	1616.1	1580.6	1544.0
5°	1557.9	1567.2	1610.0	1695.2	1769.2	1792.9	1809.8	1766.7	1721.4	1634.8	1542.4
7.5°	1463.9	1479.4	1546.8	1706.7	1838.9	1897.3	1908.4	1840.8	1729.9	1587.3	1448.4
10°	1343.4	1361.1	1442.4	1639.1	1820.5	1920.6	1935.9	1847.5	1688.0	1510.4	1346.6
12.5°	1245.9	1266.7	1349.8	1563.0	1757.5	1868.3	1898.5	1825.1	1651.7	1455.8	1277.1
15°	1201.0	1224.8	1312.1	1513.7	1687.6	1774.8	1799.8	1768.1	1631.6	1447.1	1261.0
17.5°	1226.8	1252.6	1342.8	1518.0	1622.0	1659.2	1679.4	1692.2	1631.6	1499.3	1308.1
20°	1332.5	1360.3	1455.8	1560.9	1567.6	1553.7	1575.2	1620.5	1650.5	1598.4	1421.3
22.5°	1478.7	1511.4	1619.1	1634.5	1541.0	1488.4	1491.2	1562.3	1685.0	1724.1	1578.5
25°	1657.0	1696.8	1806.5	1744.0	1552.1	1449.6	1448.5	1514.4	1718.6	1849.9	1753.5
27.5°	1834.0	1877.9	1974.2	1877.8	1597.8	1442.4	1440.5	1499.9	1751.4	1961.9	1944.6
30°	1982.5	2025.1	2108.1	1974.6	1647.1	1459.0	1449.3	1515.4	1770.9	2034.6	2084.0
32.5°	2103.3	2137.5	2204.6	2041.3	1699.9	1491.0	1470.1	1556.9	1804.2	2096.1	2212.1
35°	2236.2	2272.3	2299.1	2104.7	1759.1	1537.1	1507.2	1622.7	1855.4	2158.4	2352.4
37.5°	2387.9	2423.7	2420.5	2162.7	1834.3	1613.5	1594.3	1727.1	1935.0	2220.4	2509.1
40°	2536.4	2573.0	2546.8	2226.2	1922.5	1739.4	1725.3	1883.8	2041.5	2299.4	2692.9
42.5°	2675.3	2714.9	2659.0	2286.2	2027.6	1898.0	1922.3	2085.5	2174.8	2397.0	2851.2
45°	2787.3	2827.8	2753.1	2344.6	2138.3	2090.6	2163.3	2309.1	2335.1	2479.3	2958.1
47.5°	2868.6	2907.0	2818.3	2403.0	2280.1	2326.0	2452.8	2543.6	2479.9	2550.8	3034.1
50°	2920.6	2950.4	2837.4	2476.1	2466.3	2600.8	2754.2	2798.5	2616.3	2615.3	3126.2
52.5°	2953.6	2967.2	2851.5	2552.4	2660.4	2899.9	3049.6	3063.5	2756.7	2686.2	3250.5
55°	3067.4	3078.3	2951.4	2644.9	2820.9	3161.9	3316.6	3303.7	2915.6	2824.9	3397.1
57.5°	3261.6	3273.0	3157.9	2777.8	2950.8	3323.9	3510.1	3533.3	3101.9	3019.9	3554.3
60°	3359.1	3380.4	3339.4	2946.2	3076.7	3427.4	3642.0	3716.0	3334.8	3276.9	3706.5
62.5°	3270.7	3301.7	3361.3	3132.9	3201.8	3484.4	3683.2	3781.4	3573.2	3576.4	3800.4
65°	3094.3	3119.0	3220.1	3235.2	3274.3	3477.4	3581.6	3690.0	3719.2	3851.5	3795.3
67.5°	2881.1	2890.4	2976.2	3243.3	3169.1	3265.4	3276.7	3356.8	3603.8	3949.0	3642.9
70°	2574.4	2579.4	2654.4	2973.6	2723.4	2744.6	2727.9	2744.2	3098.2	3711.5	3258.0
72.5°	2071.9	2084.6	2191.1	2469.5	1984.1	1923.0	2054.4	2047.1	2386.1	3135.7	2419.7
75°	1525.5	1547.5	1708.4	1989.1	1392.6	1259.6	1355.5	1381.1	1696.3	2425.5	1513.2
77.5°	1068.1	1084.3	1240.3	1462.3	1007.9	900.7	866.0	896.5	1119.7	1754.7	762.3
80°	615.3	621.3	720.8	844.3	679.2	777.1	703.9	724.8	670.9	780.6	327.8
82.5°	402.6	403.7	442.5	502.5	422.9	491.4	363.7	465.1	412.7	313.6	106.7
85°	217.6	218.7	256.5	356.7	239.5	135.4	79.6	163.4	255.1	71.9	29.2
87.5°	24.0	22.0	77.3	129.7	66.5	12.3	4.2	18.3	40.9	4.6	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°	1426.4	1426.4	1426.4	1426.4	1426.4	1426.4	1426.4	1426.4	1426.4	1426.4	1426.4
2.5°	1525.3	1508.6	1466.9	1422.7	1387.3	1354.0	1320.6	1279.7	1248.1	1241.7	1231.2
5°	1492.6	1439.6	1352.3	1264.4	1193.8	1104.5	1047.9	1003.8	960.7	958.1	949.4
7.5°	1378.7	1309.0	1185.9	1064.4	964.9	879.9	794.2	736.8	691.7	675.7	666.2
10°	1269.0	1190.7	1037.1	898.4	809.7	734.5	674.1	614.1	559.7	522.2	505.3
12.5°	1192.6	1105.9	936.6	817.1	753.5	682.2	608.4	533.6	470.9	425.7	398.2
15°	1163.0	1070.4	902.9	784.9	706.3	616.1	521.8	436.3	366.7	325.9	301.1
17.5°	1198.2	1090.6	900.3	745.6	635.9	523.6	419.5	318.5	253.0	222.0	206.0
20°	1287.6	1154.7	899.3	697.5	552.1	414.1	284.2	209.5	169.7	152.5	145.0
22.5°	1414.1	1236.4	907.4	650.0	464.8	295.9	196.1	153.9	133.5	124.3	120.1
25°	1576.9	1351.2	930.1	606.8	382.9	220.8	152.8	128.9	114.6	107.4	104.4
27.5°	1750.3	1483.4	965.5	569.4	316.2	176.0	131.0	110.4	100.1	95.1	92.2
30°	1893.3	1636.4	1001.4	527.7	267.9	153.5	119.9	100.7	88.9	85.6	82.9
32.5°	2018.3	1752.3	1026.8	490.0	236.3	136.4	108.3	90.0	82.0	75.7	72.9
35°	2147.8	1848.7	1026.0	463.7	214.5	123.4	98.7	80.6	70.9	63.7	61.4
37.5°	2288.0	1957.7	1008.4	441.0	205.1	113.2	93.3	75.5	65.9	58.6	55.8
40°	2452.1	2072.1	990.5	419.9	202.4	104.9	89.4	71.5	61.2	54.2	51.4
42.5°	2612.1	2175.2	974.8	404.2	191.2	104.7	86.0	68.5	57.6	50.7	47.5
45°	2739.9	2271.3	971.8	394.7	179.2	108.3	84.2	66.5	54.8	47.9	44.9
47.5°	2846.3	2375.6	991.2	388.2	168.0	98.9	88.6	65.1	52.1	45.6	42.1
50°	2972.8	2503.7	1036.6	377.3	156.1	89.1	101.5	65.5	50.0	43.1	39.5
52.5°	3149.2	2680.9	1103.5	358.9	139.8	79.9	99.9	65.9	47.5	40.5	36.8
55°	3347.0	2902.3	1175.5	328.5	117.0	68.1	85.6	63.0	42.9	37.7	34.2
57.5°	3554.9	3103.1	1218.1	292.2	93.1	58.8	68.5	57.4	37.9	33.8	31.7
60°	3587.5	3179.5	1198.6	247.7	73.9	51.2	50.7	58.4	33.8	29.8	28.2
62.5°	3506.3	3083.6	1104.2	208.1	61.8	44.9	41.7	50.9	30.6	26.6	25.0
65°	3350.3	2824.4	951.0	187.5	57.4	38.5	34.7	35.9	26.8	23.2	21.8
67.5°	3133.1	2478.3	780.8	175.9	56.8	33.1	29.6	27.1	23.2	20.1	19.0
70°	2689.2	2064.6	622.9	169.4	55.1	27.8	25.0	22.2	19.4	17.1	16.2
72.5°	1979.2	1463.0	484.6	162.3	55.6	22.2	21.8	18.3	15.5	13.3	12.9
75°	1143.6	835.9	317.8	131.5	53.0	17.1	18.1	12.9	10.9	9.3	9.3
77.5°	609.5	509.8	121.1	54.8	19.4	10.9	10.2	7.6	6.9	5.6	5.4
80°	265.7	224.3	36.4	15.3	10.7	5.8	3.9	3.4	3.0	2.4	2.3
82.5°	94.0	81.2	11.8	7.4	4.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.3	15.3	0.0	1.8	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°	1426.4	1426.4	1426.4	1426.4	1426.4	1426.4	1426.4	1426.4	1426.4	1426.4	1426.4
2.5°	1209.8	1205.4	1179.2	1180.3	1184.9	1191.5	1175.8	1183.1	1202.6	1221.3	1228.4
5°	935.5	936.6	920.6	930.5	939.4	945.4	920.0	920.4	935.9	957.1	968.1
7.5°	659.2	657.6	658.4	682.0	698.7	686.6	696.1	663.2	665.3	680.4	669.0
10°	490.0	467.9	455.4	473.1	491.4	484.8	468.5	457.8	465.3	482.0	480.8
12.5°	385.1	353.3	334.5	321.8	337.0	324.5	324.1	314.8	304.7	306.5	333.3
15°	289.6	266.5	244.3	224.0	223.6	219.3	197.7	173.6	171.6	172.8	186.8
17.5°	199.2	191.4	182.2	164.8	160.1	142.4	121.5	111.8	106.9	109.2	113.8
20°	140.0	137.0	138.0	128.5	121.8	104.9	92.6	88.9	88.0	90.3	92.4
22.5°	116.0	110.6	110.0	105.8	99.1	86.8	80.1	78.0	76.9	78.9	80.6
25°	101.5	96.1	93.8	91.2	84.2	75.7	71.7	69.7	68.7	69.9	70.9
27.5°	89.4	84.4	82.4	80.6	73.7	67.6	64.4	62.7	61.8	62.3	63.2
30°	80.3	75.9	73.3	71.1	65.3	61.1	58.2	56.4	55.6	55.6	56.6
32.5°	70.9	68.5	66.0	63.2	57.8	55.0	52.1	50.2	49.3	49.5	50.4
35°	59.0	58.2	58.8	56.2	51.6	49.1	46.3	44.2	43.5	43.7	44.5
37.5°	52.3	48.8	50.9	49.5	47.0	43.7	40.1	38.0	37.0	37.7	38.0
40°	48.1	43.7	42.1	43.5	43.1	37.9	34.7	32.6	31.8	32.0	32.4
42.5°	44.5	39.3	35.6	35.4	37.9	33.1	29.6	27.8	26.8	26.8	27.1
45°	41.1	35.4	31.0	27.6	31.8	28.0	24.8	23.2	22.0	22.0	22.2
47.5°	38.5	32.2	27.0	22.5	24.0	22.9	20.4	18.7	17.6	17.6	17.8
50°	36.1	29.0	23.4	19.0	17.9	19.0	16.5	14.7	13.9	13.7	14.1
52.5°	33.4	25.7	19.9	16.2	14.1	14.3	12.9	11.6	10.7	10.7	11.1
55°	30.8	23.2	17.3	13.7	11.6	10.7	10.2	9.5	8.6	8.6	9.0
57.5°	28.2	20.4	14.7	11.3	9.3	8.5	8.5	7.9	7.2	7.2	7.6
60°	25.7	17.6	12.1	9.3	7.2	7.0	7.2	6.7	6.2	6.2	6.7
62.5°	22.9	14.9	9.9	7.6	5.8	5.6	6.2	5.8	5.4	5.4	5.8
65°	19.5	12.7	7.9	5.8	4.4	4.4	5.3	4.8	4.4	4.4	4.8
67.5°	16.5	10.7	6.0	4.2	3.2	3.4	4.4	4.0	3.9	3.9	4.2
70°	13.7	8.3	4.2	2.6	1.8	2.6	3.4	3.4	3.4	3.4	3.9
72.5°	10.2	5.6	2.4	1.0	0.8	1.8	2.8	3.2	3.0	3.0	3.7
75°	6.7	3.2	0.8	0.0	0.0	1.0	2.3	2.6	2.6	2.4	3.0
77.5°	3.9	1.0	0.0	0.0	0.0	0.0	1.4	1.2	1.0	0.8	1.4
80°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1426.4	1426.4	1426.4	1426.4	1426.4	1426.4	1426.4	1426.4	1426.4	1426.4
2.5°	1256.8	1280.6	1314.0	1349.4	1404.0	1447.3	1489.8	1526.2	1540.3	1546.2
5°	994.7	1029.6	1078.5	1141.4	1239.9	1328.5	1418.3	1508.8	1548.0	1557.9
7.5°	713.8	758.3	820.6	899.3	1014.7	1129.5	1254.9	1387.7	1448.5	1463.9
10°	528.3	582.7	654.0	737.0	847.1	965.1	1101.9	1253.5	1323.0	1343.4
12.5°	374.8	448.4	543.8	644.7	740.1	845.5	983.9	1151.0	1223.9	1245.9
15°	220.1	291.2	404.2	539.4	661.6	768.3	909.0	1098.4	1178.8	1201.0
17.5°	126.3	161.8	247.2	397.7	563.7	711.6	885.4	1111.6	1206.3	1226.8
20°	96.5	107.7	142.4	256.2	449.3	655.8	885.4	1185.7	1302.3	1332.5
22.5°	84.4	92.6	106.7	152.8	330.7	596.0	895.6	1292.8	1445.3	1478.7
25°	75.0	82.4	94.5	115.0	225.5	524.8	920.0	1424.4	1613.7	1657.0
27.5°	67.1	74.1	85.0	100.7	154.2	439.1	952.8	1578.7	1799.4	1834.0
30°	60.0	66.7	76.6	87.6	119.0	341.8	980.8	1724.1	1945.2	1982.5
32.5°	53.4	59.4	68.3	76.6	97.5	252.8	983.9	1839.2	2066.3	2103.3
35°	47.2	52.6	60.6	67.1	80.8	199.6	937.0	1939.2	2187.3	2236.2
37.5°	41.1	46.3	53.4	58.2	71.1	162.7	865.3	2050.5	2342.6	2387.9
40°	35.4	40.1	47.3	50.5	67.3	125.0	787.3	2167.4	2494.8	2536.4
42.5°	30.2	34.7	41.7	47.9	59.0	93.5	703.1	2276.9	2631.8	2675.3
45°	25.2	29.8	36.8	50.7	48.9	69.9	613.0	2349.6	2739.9	2787.3
47.5°	20.4	25.6	35.2	48.4	39.1	51.4	541.7	2418.5	2821.9	2868.6
50°	16.3	21.5	39.6	43.1	32.0	39.3	512.0	2480.1	2875.7	2920.6
52.5°	13.3	18.1	37.5	33.1	26.8	32.4	528.1	2580.0	2925.5	2953.6
55°	11.1	14.3	22.5	22.9	22.7	27.6	548.0	2723.4	3054.2	3067.4
57.5°	9.7	11.5	15.7	17.8	19.2	24.6	548.4	2929.3	3253.3	3261.6
60°	8.3	10.1	13.1	14.3	16.5	22.0	528.5	3001.2	3331.7	3359.1
62.5°	7.2	8.8	10.9	11.8	13.9	19.7	481.7	2897.1	3224.1	3270.7
65°	6.5	8.1	9.0	10.1	12.3	17.8	404.8	2688.8	3045.7	3094.3
67.5°	5.6	7.0	8.1	9.0	11.1	15.7	298.1	2446.9	2840.8	2881.1
70°	5.1	6.2	7.2	8.1	9.7	13.3	180.8	2076.3	2557.7	2574.4
72.5°	4.8	5.6	6.7	7.2	8.5	11.6	91.7	1525.9	2044.7	2071.9
75°	4.2	5.1	6.0	6.5	7.4	10.1	37.3	1002.2	1481.8	1525.5
77.5°	3.4	4.6	5.4	5.8	6.5	8.3	19.0	640.5	1039.9	1068.1
80°	1.2	3.4	4.6	4.8	5.4	6.0	12.5	350.7	603.2	615.3
82.5°	0.0	2.3	3.7	3.4	3.9	4.6	8.1	166.7	398.2	402.6
85°	0.0	1.0	2.8	2.3	1.6	3.2	2.8	36.4	208.8	217.6
87.5°	0.0	0.0	0.2	1.0	0.8	1.2	0.4	0.2	19.0	24.0
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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