

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: STREETWORKS

Report Number: P324085

Luminaire Tested: **GAN-SA1C-727-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324085
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 (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1C-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA 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: 4592 lumens
Efficiency: N/A
Efficacy: 77.8 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): 59
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

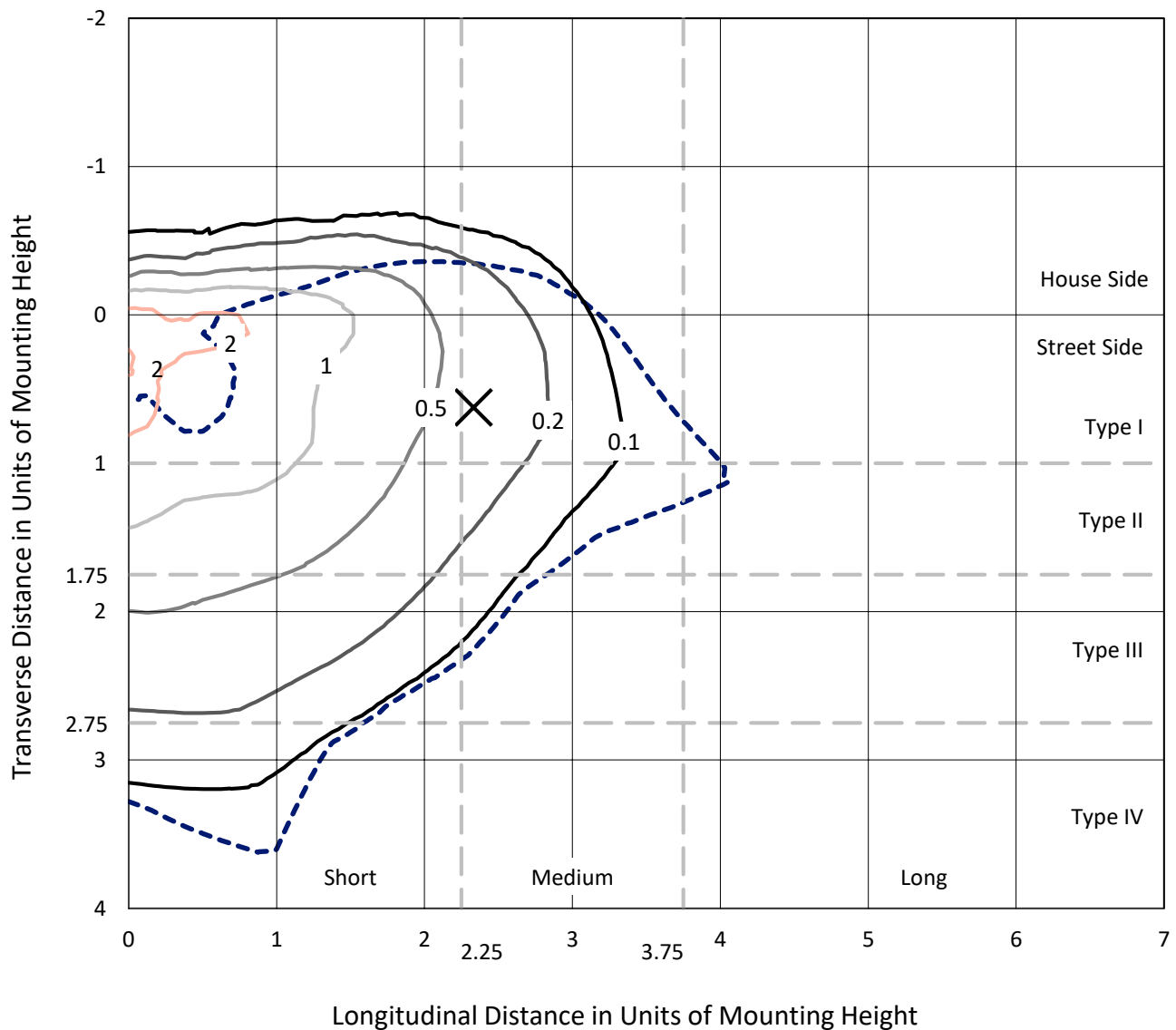


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Iso-Footcandle Lines of Horizontal Illumination

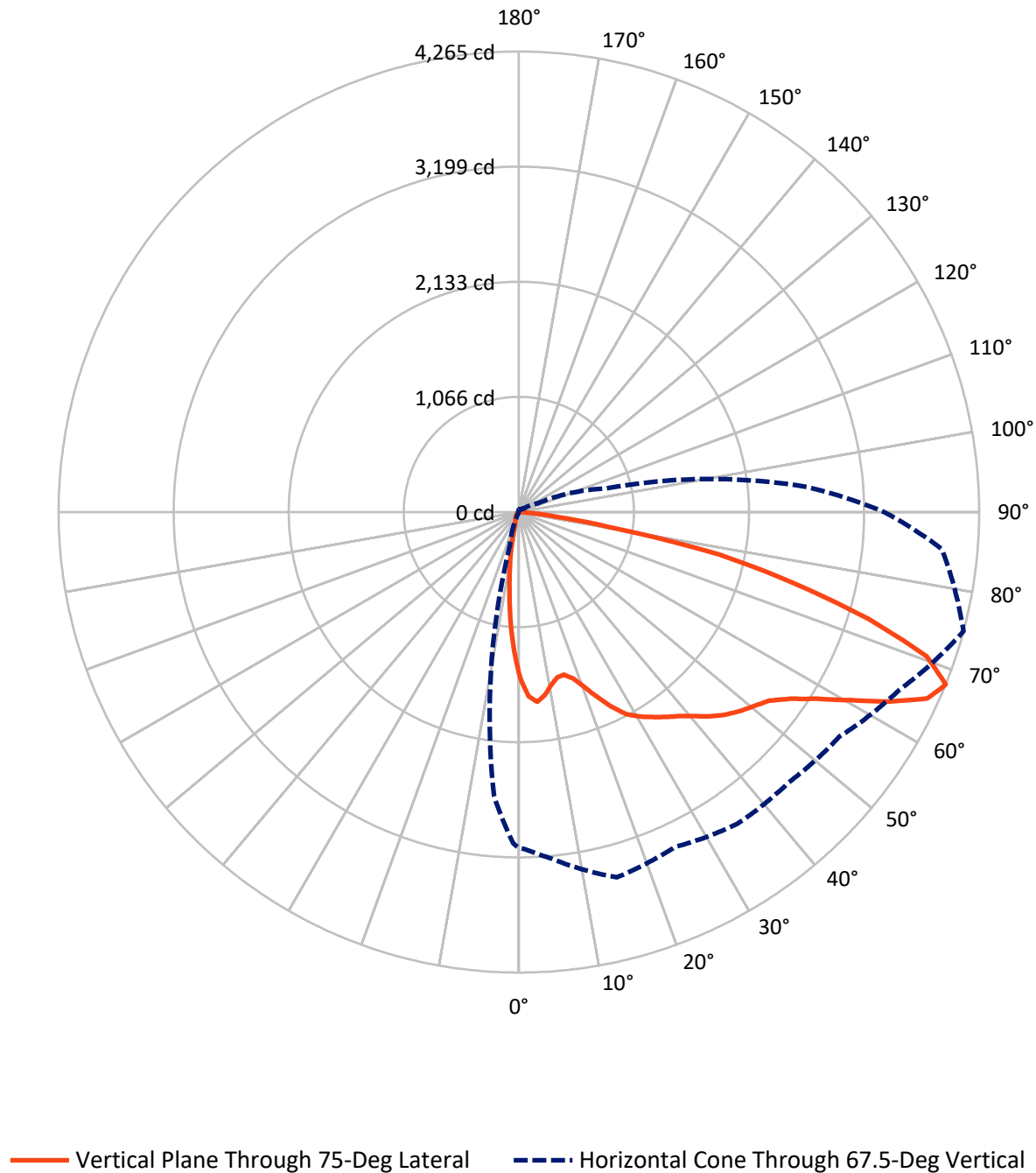
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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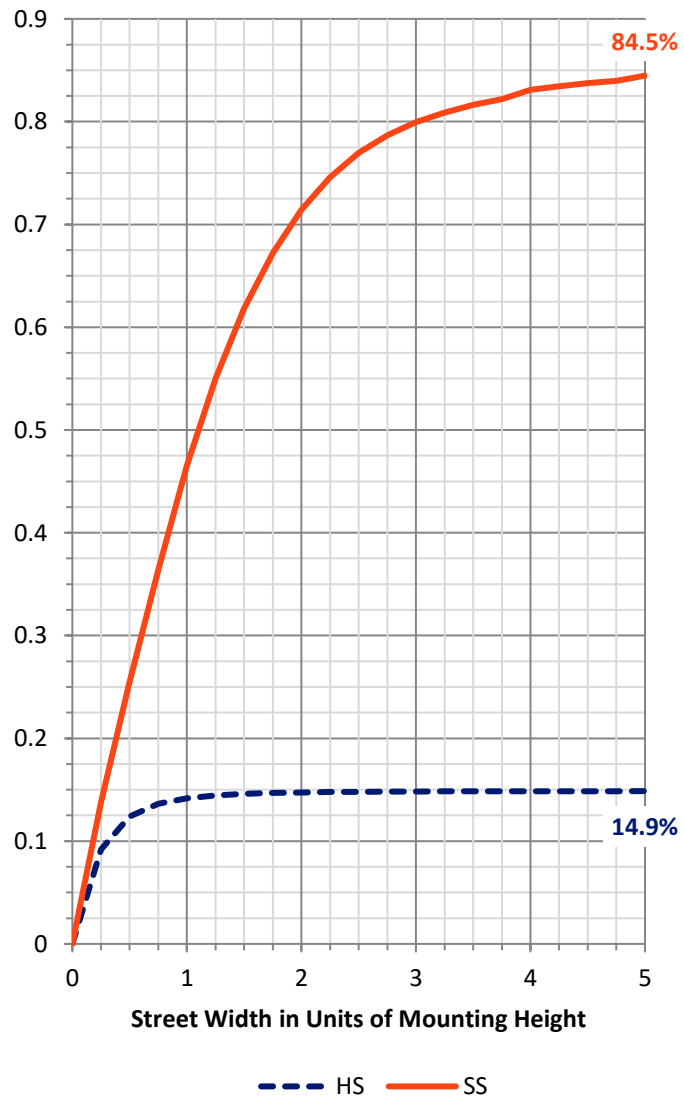
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	689.1	0.0	689.1
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	3902.9	0.0	3902.9
	% Fixture	85.0	0.0	85.0
Total	Lumens	4592.0	0.0	4592.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.9	2.5
10°-20°	230.1	5.0
20°-30°	325.5	7.1
30°-40°	478.6	10.4
40°-50°	687.9	15.0
50°-60°	968.4	21.1
60°-70°	1131.0	24.6
70°-80°	577.0	12.6
80°-90°	76.6	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°	4592.0	100.0
0°-180°	4592.0	100.0

Coefficient of Utilization



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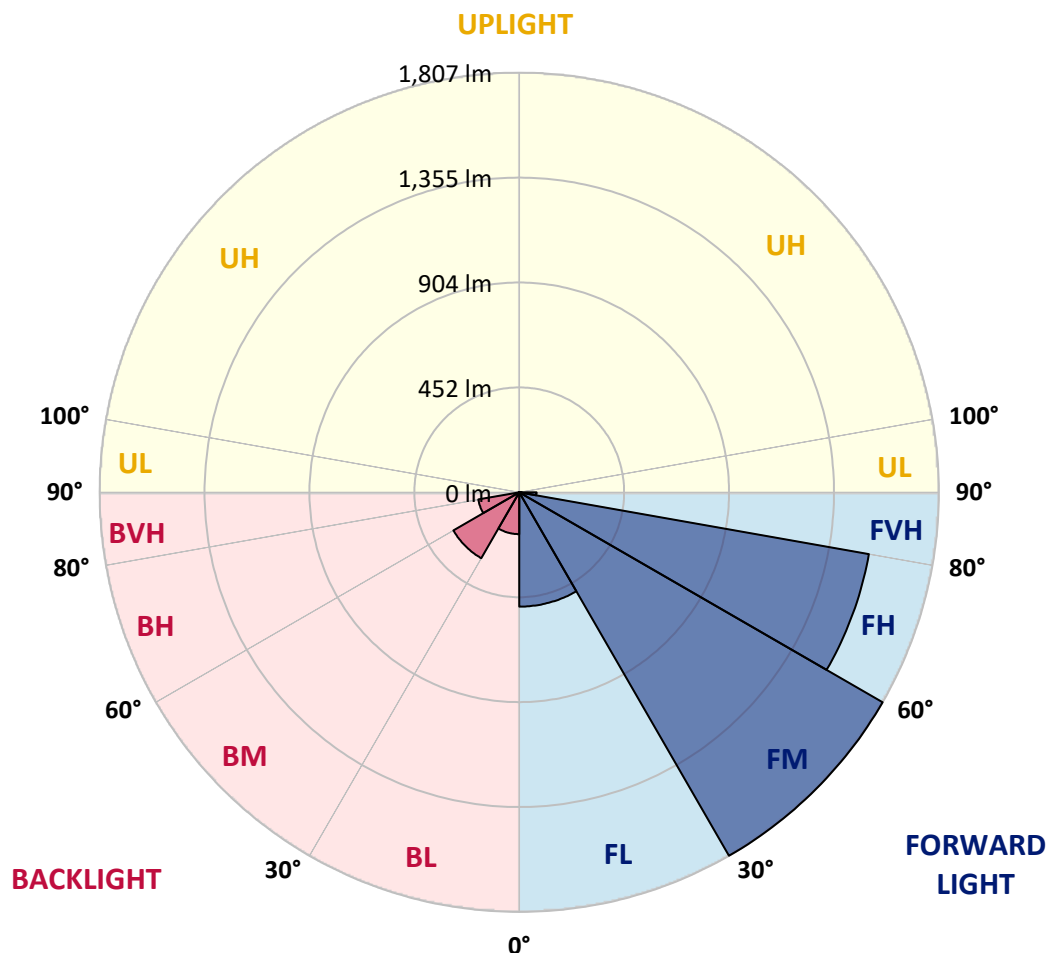
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	492.3	10.7			
FM	(30°-60°)	1807.3	39.4			
FH	(60°-80°)	1529.0	33.3			G1/1800
FVH	(80°-90°)	74.3	1.6			G1/100
BL	(0°-30°)	180.2	3.9	B1/500		
BM	(30°-60°)	327.6	7.1	B1/1000		
BH	(60°-80°)	179.0	3.9	B1/500		G1/500
BVH	(80°-90°)	2.3	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°	1540.5	1540.5	1540.5	1540.5	1540.5	1540.5	1540.5	1540.5	1540.5	1540.5	1540.5
2.5°	1670.0	1672.6	1686.1	1717.4	1751.5	1754.2	1777.2	1753.5	1745.4	1707.2	1667.6
5°	1682.6	1692.6	1738.9	1830.9	1910.8	1936.4	1954.7	1908.2	1859.2	1765.7	1665.8
7.5°	1581.0	1597.7	1670.6	1843.3	1986.0	2049.1	2061.1	1988.2	1868.4	1714.3	1564.2
10°	1450.9	1470.1	1557.9	1770.2	1966.2	2074.4	2090.9	1995.4	1823.1	1631.2	1454.4
12.5°	1345.6	1368.0	1457.9	1688.0	1898.2	2017.8	2050.4	1971.2	1784.0	1572.3	1379.3
15°	1297.1	1322.8	1417.2	1634.9	1822.7	1916.9	1943.8	1909.7	1762.2	1562.9	1361.9
17.5°	1325.0	1352.8	1450.3	1639.5	1751.8	1792.0	1813.8	1827.7	1762.2	1619.3	1412.8
20°	1439.2	1469.2	1572.3	1685.8	1693.0	1678.0	1701.3	1750.2	1782.6	1726.3	1535.1
22.5°	1597.1	1632.3	1748.7	1765.2	1664.3	1607.5	1610.6	1687.4	1819.8	1862.0	1704.8
25°	1789.6	1832.7	1951.0	1883.6	1676.3	1565.6	1564.5	1635.6	1856.2	1998.0	1893.8
27.5°	1980.8	2028.2	2132.2	2028.0	1725.7	1557.9	1555.8	1619.9	1891.6	2118.9	2100.2
30°	2141.1	2187.2	2276.9	2132.7	1778.9	1575.8	1565.3	1636.7	1912.7	2197.5	2250.8
32.5°	2271.7	2308.6	2381.1	2204.7	1835.9	1610.4	1587.7	1681.5	1948.6	2263.8	2389.1
35°	2415.2	2454.2	2483.1	2273.2	1899.9	1660.2	1627.8	1752.6	2003.9	2331.3	2540.7
37.5°	2579.0	2617.7	2614.3	2335.8	1981.0	1742.6	1722.0	1865.3	2089.8	2398.0	2710.0
40°	2739.3	2778.9	2750.6	2404.3	2076.3	1878.6	1863.3	2034.5	2204.9	2483.5	2908.4
42.5°	2889.4	2932.3	2871.8	2469.2	2189.9	2050.0	2076.1	2252.5	2348.9	2588.8	3079.3
45°	3010.4	3054.1	2973.4	2532.3	2309.5	2257.9	2336.5	2494.0	2522.0	2677.8	3194.8
47.5°	3098.3	3139.6	3043.9	2595.3	2462.6	2512.2	2649.1	2747.2	2678.4	2755.0	3276.9
50°	3154.4	3186.6	3064.5	2674.3	2663.6	2808.9	2974.7	3022.6	2825.7	2824.6	3376.5
52.5°	3190.1	3204.6	3079.8	2756.7	2873.3	3132.0	3293.6	3308.6	2977.3	2901.2	3510.7
55°	3313.0	3324.7	3187.7	2856.6	3046.7	3415.0	3582.0	3568.1	3148.9	3051.1	3669.1
57.5°	3522.7	3535.1	3410.6	3000.2	3187.0	3589.9	3791.1	3816.1	3350.2	3261.6	3838.7
60°	3627.9	3651.0	3606.6	3182.0	3323.0	3701.7	3933.6	4013.4	3601.6	3539.2	4003.2
62.5°	3532.4	3565.9	3630.3	3383.7	3458.1	3763.2	3977.9	4084.1	3859.2	3862.7	4104.5
65°	3341.9	3368.6	3477.8	3494.2	3536.4	3755.6	3868.3	3985.3	4016.9	4159.8	4099.1
67.5°	3111.7	3121.8	3214.4	3502.9	3422.8	3526.8	3539.0	3625.5	3892.2	4265.1	3934.4
70°	2780.5	2785.9	2866.8	3211.6	2941.4	2964.3	2946.2	2963.8	3346.2	4008.6	3518.7
72.5°	2237.7	2251.4	2366.5	2667.1	2142.9	2077.0	2218.8	2211.0	2577.1	3386.7	2613.4
75°	1647.6	1671.3	1845.1	2148.3	1504.0	1360.4	1464.0	1491.6	1832.0	2619.7	1634.3
77.5°	1153.6	1171.2	1339.5	1579.3	1088.5	972.8	935.4	968.2	1209.2	1895.1	823.3
80°	664.5	671.1	778.5	911.9	733.5	839.2	760.3	782.9	724.6	843.1	354.1
82.5°	434.8	435.9	477.9	542.7	456.8	530.8	392.9	502.3	445.7	338.7	115.3
85°	234.9	236.2	277.1	385.2	258.6	146.2	85.9	176.4	275.6	77.7	31.5
87.5°	25.9	23.7	83.5	140.1	71.8	13.3	4.6	19.8	44.2	5.0	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°	1540.5	1540.5	1540.5	1540.5	1540.5	1540.5	1540.5	1540.5	1540.5	1540.5	1540.5
2.5°	1647.3	1629.3	1584.3	1536.6	1498.3	1462.4	1426.3	1382.2	1348.0	1341.1	1329.8
5°	1612.1	1554.9	1460.5	1365.6	1289.3	1192.9	1131.8	1084.2	1037.6	1034.8	1025.4
7.5°	1489.0	1413.7	1280.8	1149.6	1042.2	950.4	857.7	795.7	747.0	729.8	719.6
10°	1370.6	1286.0	1120.1	970.4	874.5	793.3	728.1	663.2	604.5	564.1	545.8
12.5°	1288.0	1194.4	1011.5	882.5	813.8	736.8	657.2	576.2	508.6	459.9	430.1
15°	1256.0	1156.2	975.2	847.7	762.9	665.4	563.6	471.2	396.1	352.0	325.2
17.5°	1294.1	1177.9	972.4	805.3	686.7	565.6	453.1	343.9	273.2	239.7	222.5
20°	1390.7	1247.1	971.3	753.3	596.2	447.2	306.9	226.2	183.4	164.7	156.6
22.5°	1527.3	1335.4	980.0	702.0	502.1	319.5	211.9	166.2	144.2	134.2	129.6
25°	1703.0	1459.4	1004.5	655.4	413.5	238.4	165.1	139.2	123.8	115.9	112.7
27.5°	1890.3	1602.1	1042.8	615.0	341.5	190.1	141.4	119.2	108.1	102.7	99.6
30°	2044.8	1767.4	1081.6	569.9	289.3	165.8	129.4	108.8	95.9	92.4	89.6
32.5°	2179.9	1892.5	1109.0	529.2	255.2	147.3	117.0	97.2	88.5	81.8	78.7
35°	2319.7	1996.7	1108.1	500.8	231.7	133.3	106.6	87.0	76.6	68.7	66.3
37.5°	2471.1	2114.4	1089.2	476.4	221.4	122.3	100.7	81.6	71.1	63.3	60.3
40°	2648.4	2237.9	1069.8	453.5	218.6	113.3	96.6	77.2	66.1	58.5	55.5
42.5°	2821.1	2349.3	1052.8	436.6	206.4	113.1	92.9	74.0	62.2	54.8	51.3
45°	2959.3	2453.1	1049.6	426.4	193.6	117.0	90.9	71.8	59.2	51.8	48.5
47.5°	3074.1	2565.7	1070.5	419.2	181.4	106.8	95.7	70.3	56.3	49.2	45.5
50°	3210.7	2704.1	1119.6	407.4	168.6	96.1	109.6	70.7	53.9	46.6	42.6
52.5°	3401.3	2895.5	1191.8	387.6	151.0	86.4	107.9	71.1	51.3	43.7	39.8
55°	3614.9	3134.6	1269.5	354.8	126.4	73.5	92.4	68.1	46.3	40.7	37.0
57.5°	3839.4	3351.5	1315.6	315.6	100.5	63.5	74.0	62.0	40.9	36.5	34.2
60°	3874.6	3433.9	1294.5	267.6	79.8	55.3	54.8	63.1	36.5	32.2	30.5
62.5°	3787.0	3330.4	1192.5	224.7	66.8	48.5	45.0	55.0	33.1	28.7	27.0
65°	3618.4	3050.4	1027.2	202.5	62.0	41.5	37.4	38.7	28.9	25.0	23.5
67.5°	3383.9	2676.7	843.4	189.9	61.3	35.7	32.0	29.4	25.0	21.8	20.4
70°	2904.4	2229.9	672.8	182.9	59.6	30.0	27.0	23.9	20.9	18.5	17.4
72.5°	2137.7	1580.1	523.4	175.3	60.0	23.9	23.5	19.8	16.7	14.4	13.9
75°	1235.1	902.7	343.3	142.0	57.2	18.5	19.6	13.9	11.7	10.0	10.0
77.5°	658.2	550.6	130.7	59.2	20.9	11.7	11.1	8.3	7.4	6.1	5.9
80°	286.9	242.3	39.4	16.5	11.5	6.3	4.1	3.7	3.3	2.6	2.4
82.5°	101.6	87.7	12.8	8.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.1	16.5	0.0	2.0	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°	1540.5	1540.5	1540.5	1540.5	1540.5	1540.5	1540.5	1540.5	1540.5	1540.5	1540.5
2.5°	1306.7	1301.9	1273.6	1274.7	1279.7	1286.9	1269.9	1277.8	1298.9	1319.1	1326.7
5°	1010.4	1011.5	994.3	1005.0	1014.6	1021.1	993.7	994.1	1010.9	1033.7	1045.7
7.5°	712.0	710.2	711.1	736.6	754.6	741.6	751.8	716.3	718.5	734.8	722.6
10°	529.2	505.3	491.8	511.0	530.8	523.6	506.0	494.4	502.5	520.5	519.2
12.5°	415.9	381.5	361.3	347.6	363.9	350.4	350.0	340.0	329.1	331.1	360.0
15°	312.8	287.8	263.9	241.9	241.5	236.9	213.6	187.5	185.3	186.6	201.6
17.5°	215.1	206.7	196.9	177.9	172.9	153.8	131.2	120.7	115.5	117.9	122.9
20°	151.2	147.9	149.0	138.8	131.6	113.3	100.1	95.9	95.1	97.5	99.8
22.5°	125.3	119.4	118.8	114.2	107.0	93.8	86.6	84.2	83.1	85.3	87.0
25°	109.6	103.8	101.4	98.5	90.9	81.8	77.4	75.3	74.2	75.5	76.6
27.5°	96.6	91.1	89.0	87.0	79.6	73.1	69.6	67.7	66.8	67.2	68.3
30°	86.8	82.0	79.2	76.8	70.5	65.9	62.9	60.9	60.0	60.0	61.1
32.5°	76.6	74.0	71.3	68.3	62.4	59.4	56.3	54.2	53.3	53.5	54.4
35°	63.7	62.9	63.5	60.7	55.7	53.1	50.0	47.6	47.0	47.2	48.1
37.5°	56.6	52.6	55.0	53.5	50.7	47.2	43.3	41.1	40.0	40.7	41.1
40°	52.0	47.2	45.5	47.0	46.6	40.9	37.4	35.2	34.4	34.6	35.0
42.5°	48.1	42.4	38.5	38.3	40.9	35.7	32.0	30.0	28.9	28.9	29.4
45°	44.4	38.3	33.5	29.8	34.4	30.2	26.8	25.0	23.7	23.7	23.9
47.5°	41.5	34.8	29.1	24.4	25.9	24.8	22.0	20.2	18.9	18.9	19.1
50°	38.9	31.3	25.2	20.4	19.4	20.4	17.8	15.9	15.0	14.8	15.2
52.5°	36.1	27.8	21.5	17.4	15.2	15.4	13.9	12.6	11.5	11.5	12.0
55°	33.3	25.0	18.7	14.8	12.6	11.5	11.1	10.2	9.4	9.4	9.8
57.5°	30.5	22.0	15.9	12.2	10.0	9.1	9.1	8.5	7.8	7.8	8.3
60°	27.8	18.9	13.1	10.0	7.8	7.6	7.8	7.2	6.7	6.7	7.2
62.5°	24.8	16.1	10.7	8.3	6.3	6.1	6.7	6.3	5.9	5.9	6.3
65°	21.1	13.7	8.5	6.3	4.8	4.8	5.7	5.2	4.8	4.8	5.2
67.5°	17.8	11.5	6.5	4.6	3.5	3.7	4.8	4.4	4.1	4.1	4.6
70°	14.8	8.9	4.6	2.8	2.0	2.8	3.7	3.7	3.7	3.7	4.1
72.5°	11.1	6.1	2.6	1.1	0.9	2.0	3.0	3.5	3.3	3.3	3.9
75°	7.2	3.5	0.9	0.0	0.0	1.1	2.4	2.8	2.8	2.6	3.3
77.5°	4.1	1.1	0.0	0.0	0.0	0.0	1.5	1.3	1.1	0.9	1.5
80°	1.1	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°	1540.5	1540.5	1540.5	1540.5	1540.5	1540.5	1540.5	1540.5	1540.5	1540.5
2.5°	1357.4	1383.0	1419.2	1457.4	1516.4	1563.2	1609.1	1648.4	1663.7	1670.0
5°	1074.4	1112.0	1164.9	1232.7	1339.1	1434.8	1531.8	1629.5	1671.9	1682.6
7.5°	770.9	819.0	886.2	971.3	1095.9	1219.9	1355.4	1498.8	1564.5	1581.0
10°	570.6	629.3	706.3	795.9	914.9	1042.4	1190.1	1353.9	1428.9	1450.9
12.5°	404.8	484.2	587.3	696.3	799.4	913.2	1062.6	1243.2	1321.9	1345.6
15°	237.8	314.5	436.6	582.5	714.6	829.9	981.7	1186.4	1273.2	1297.1
17.5°	136.4	174.7	266.9	429.6	608.9	768.5	956.3	1200.5	1302.8	1325.0
20°	104.2	116.4	153.8	276.7	485.3	708.3	956.3	1280.6	1406.5	1439.2
22.5°	91.1	100.1	115.3	165.1	357.2	643.7	967.3	1396.3	1561.0	1597.1
25°	80.9	89.0	102.0	124.2	243.6	566.9	993.7	1538.4	1742.8	1789.6
27.5°	72.4	80.1	91.8	108.8	166.6	474.2	1029.1	1705.0	1943.4	1980.8
30°	64.8	72.0	82.7	94.6	128.6	369.1	1059.4	1862.0	2100.9	2141.1
32.5°	57.6	64.2	73.7	82.7	105.3	273.0	1062.6	1986.5	2231.6	2271.7
35°	50.9	56.8	65.5	72.4	87.2	215.6	1011.9	2094.4	2362.4	2415.2
37.5°	44.4	50.0	57.6	62.9	76.8	175.8	934.5	2214.7	2530.1	2579.0
40°	38.3	43.3	51.1	54.6	72.7	135.1	850.3	2340.8	2694.5	2739.3
42.5°	32.6	37.4	45.0	51.8	63.7	100.9	759.4	2459.2	2842.4	2889.4
45°	27.2	32.2	39.8	54.8	52.9	75.5	662.2	2537.7	2959.3	3010.4
47.5°	22.0	27.6	38.1	52.2	42.2	55.5	585.2	2612.1	3047.8	3098.3
50°	17.6	23.3	42.9	46.6	34.6	42.4	553.0	2678.6	3105.9	3154.4
52.5°	14.4	19.6	40.5	35.7	28.9	35.0	570.4	2786.5	3159.6	3190.1
55°	12.0	15.4	24.4	24.8	24.6	29.8	591.9	2941.4	3298.6	3313.0
57.5°	10.4	12.4	17.0	19.1	20.7	26.5	592.3	3163.7	3513.7	3522.7
60°	8.9	10.9	14.1	15.4	17.8	23.7	570.8	3241.4	3598.4	3627.9
62.5°	7.8	9.6	11.7	12.8	15.0	21.3	520.3	3128.9	3482.2	3532.4
65°	7.0	8.7	9.8	10.9	13.3	19.1	437.2	2904.0	3289.5	3341.9
67.5°	6.1	7.6	8.7	9.8	12.0	17.0	321.9	2642.8	3068.2	3111.7
70°	5.4	6.7	7.8	8.7	10.4	14.4	195.3	2242.5	2762.4	2780.5
72.5°	5.2	6.1	7.2	7.8	9.1	12.6	99.0	1648.0	2208.4	2237.7
75°	4.6	5.4	6.5	7.0	8.0	10.9	40.2	1082.4	1600.4	1647.6
77.5°	3.7	5.0	5.9	6.3	7.0	8.9	20.4	691.7	1123.1	1153.6
80°	1.3	3.7	5.0	5.2	5.9	6.5	13.5	378.7	651.5	664.5
82.5°	0.0	2.4	3.9	3.7	4.1	5.0	8.7	180.1	430.1	434.8
85°	0.0	1.1	3.0	2.4	1.7	3.5	3.0	39.4	225.6	234.9
87.5°	0.0	0.0	0.2	1.1	0.9	1.3	0.4	0.2	20.4	25.9
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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