

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: P324455

Luminaire Tested: **GAN-SA1D-730-U-SLR-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324455  
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 (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1D-730-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 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: 5485 lumens  
Efficiency: N/A  
Efficacy: 81.9 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

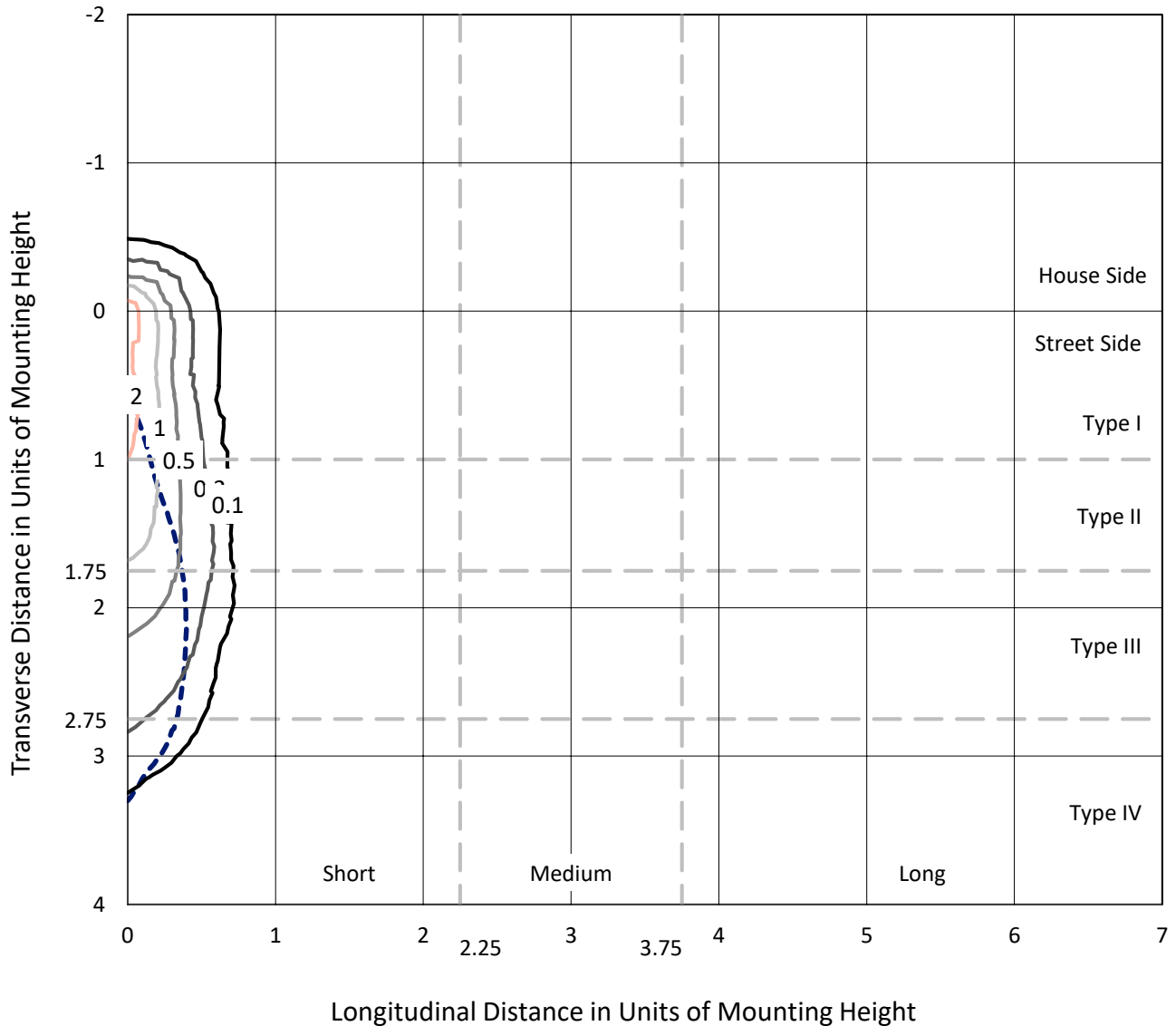
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

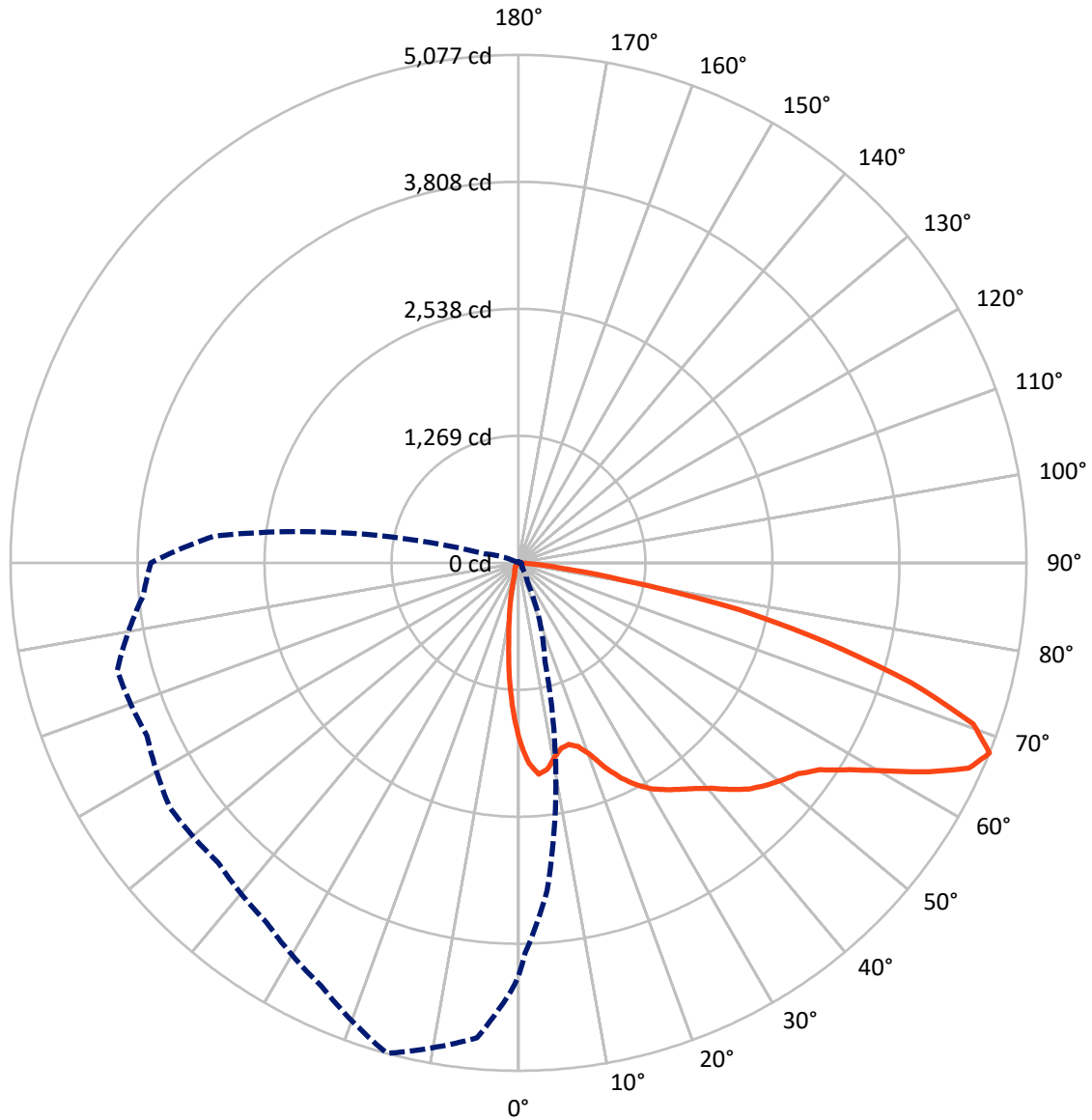
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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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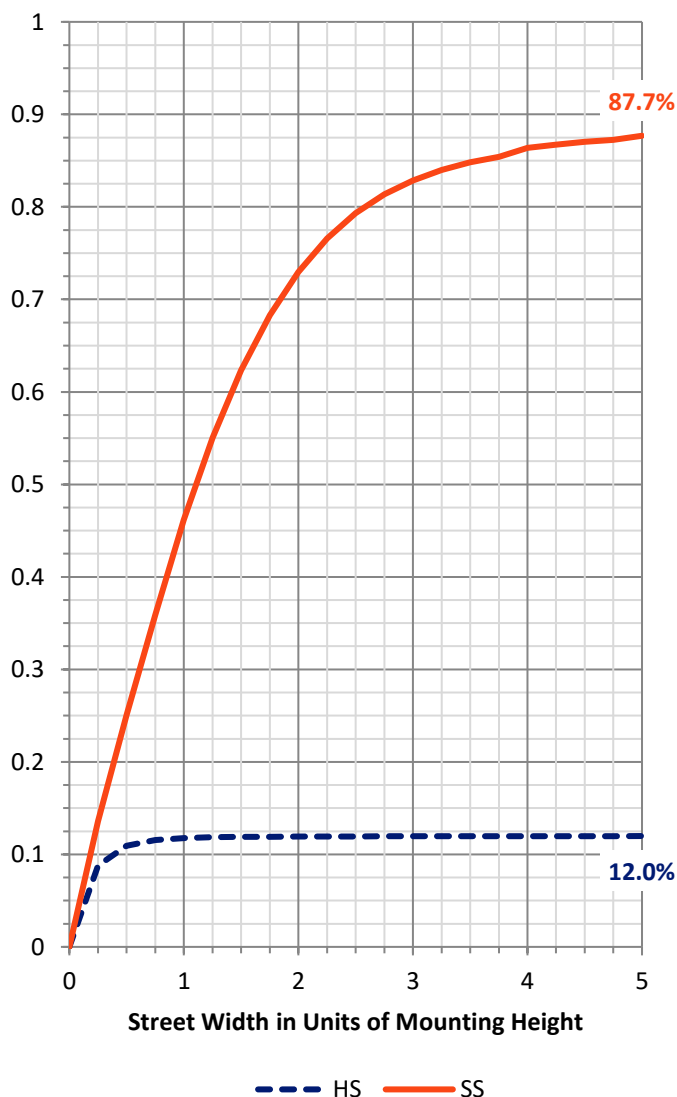
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	663.9	0.0	663.9
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	4821.1	0.0	4821.1
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	5485.0	0.0	5485.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.1	2.5
10°-20°	273.0	5.0
20°-30°	387.6	7.1
30°-40°	572.5	10.4
40°-50°	825.7	15.1
50°-60°	1159.1	21.1
60°-70°	1351.1	24.6
70°-80°	690.7	12.6
80°-90°	88.2	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°	5485.0	100.0
0°-180°	5485.0	100.0

**Coefficient of Utilization**

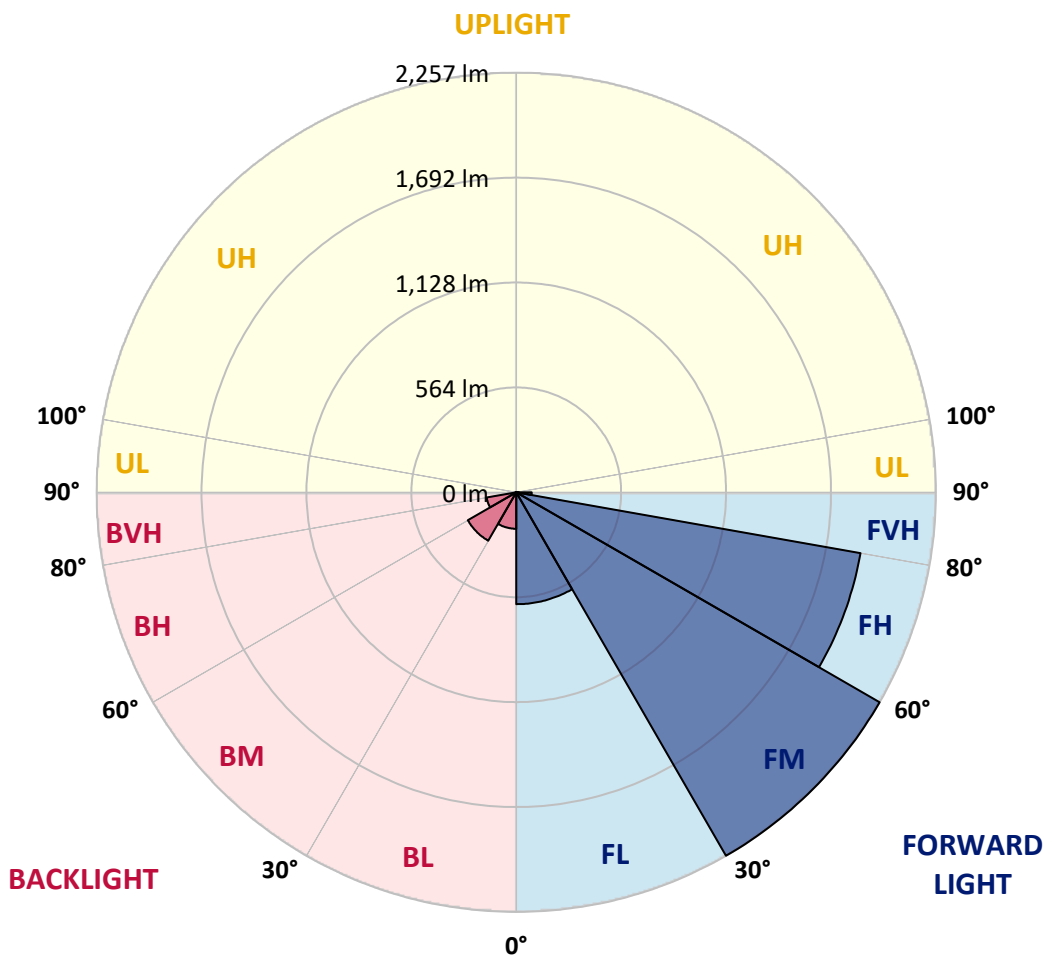


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	601.6	11.0			
FM (30°-60°)	2256.6	41.1			
FH (60°-80°)	1880.1	34.3			G2/5000
FVH (80°-90°)	82.9	1.5			G1/100
BL (0°-30°)	196.1	3.6	B1/500		
BM (30°-60°)	300.6	5.5	B1/1000		
BH (60°-80°)	161.8	2.9	B1/500		G1/500
BVH (80°-90°)	5.4	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°	1786.7	1786.7	1786.7	1786.7	1786.7	1786.7	1786.7	1786.7	1786.7	1786.7	1786.7
2.5°	1956.4	1941.3	1924.7	1870.4	1820.0	1762.3	1715.3	1682.5	1641.5	1588.2	1574.7
5°	1942.4	1926.3	1874.0	1753.2	1647.4	1544.5	1445.3	1387.1	1314.8	1241.6	1223.4
7.5°	1801.3	1784.4	1709.0	1543.5	1401.1	1252.5	1123.6	1043.8	962.2	895.2	859.6
10°	1654.5	1636.0	1551.3	1350.4	1175.0	1040.7	946.1	870.0	792.8	721.1	663.9
12.5°	1553.4	1529.2	1437.2	1209.6	1056.8	965.6	877.3	786.0	681.6	604.7	541.8
15°	1511.0	1483.5	1386.3	1155.3	1015.0	907.9	792.8	680.8	558.4	470.3	412.6
17.5°	1543.8	1507.9	1403.7	1151.7	962.5	816.7	671.2	539.7	406.9	317.8	276.7
20°	1655.0	1608.0	1475.7	1150.6	898.8	708.4	523.9	375.2	268.2	215.7	194.1
22.5°	1830.1	1768.0	1579.1	1158.9	833.1	594.5	378.3	254.9	201.4	174.1	161.4
25°	2041.6	1969.7	1728.0	1188.3	775.4	483.8	274.9	201.4	169.9	149.9	139.3
27.5°	2242.8	2184.3	1916.1	1230.6	730.7	394.5	223.2	170.7	145.3	132.0	123.4
30°	2443.6	2370.1	2109.2	1281.1	676.9	333.9	196.2	155.7	130.2	116.2	110.7
32.5°	2589.7	2528.6	2260.4	1317.4	619.5	294.4	175.4	142.4	121.6	107.3	99.3
35°	2761.4	2692.3	2390.1	1325.5	582.6	269.5	157.7	128.1	105.5	92.8	84.2
37.5°	2947.0	2860.9	2539.8	1307.8	553.7	257.3	144.5	121.6	98.5	85.5	76.4
40°	3152.2	3055.1	2683.5	1282.4	525.4	253.1	134.3	116.7	93.0	79.8	70.4
42.5°	3368.4	3253.8	2807.9	1255.6	507.5	238.8	133.3	111.7	88.9	74.6	65.2
45°	3550.1	3433.9	2935.8	1246.8	494.8	223.2	137.7	108.4	86.0	70.4	61.3
47.5°	3694.8	3584.9	3066.7	1266.5	487.5	208.9	125.5	112.8	84.5	66.8	57.9
50°	3867.6	3743.1	3251.2	1325.5	476.8	194.6	113.6	129.1	84.5	64.4	55.1
52.5°	4084.3	3961.2	3457.0	1417.0	455.5	174.9	102.1	129.4	85.2	61.3	51.5
55°	4356.9	4267.5	3750.9	1517.3	421.5	145.8	88.3	111.2	82.1	55.6	48.1
57.5°	4618.3	4545.3	4018.8	1585.9	376.0	113.8	76.9	89.6	75.1	48.9	42.9
59°	4689.8	4610.0	4117.1	1589.0	342.0	99.3	71.2	74.1	73.5	45.7	39.8
60°	4689.8	4605.1	4145.4	1572.4	317.3	91.2	67.6	66.0	76.7	43.7	37.9
62.5°	4604.8	4485.8	4053.4	1459.8	258.8	77.7	59.0	54.6	68.9	39.2	33.5
65°	4428.1	4254.8	3740.0	1256.4	230.7	71.2	50.9	44.7	47.8	34.6	29.4
67.5°	4133.4	3898.5	3288.1	1015.0	219.6	69.4	43.9	37.9	36.1	29.6	25.7
70°	3614.5	3353.9	2739.6	798.0	210.0	68.6	36.9	32.0	29.1	24.9	21.8
72.5°	2630.7	2358.9	1945.0	623.9	204.2	70.2	29.6	26.8	23.9	19.5	16.9
75°	1504.8	1326.8	1093.2	412.1	174.1	67.0	22.9	22.3	17.2	14.0	11.7
77.5°	777.5	753.8	655.1	158.2	83.4	29.4	15.1	13.0	10.1	8.6	7.0
80°	335.5	331.8	287.1	45.7	22.1	16.4	8.6	5.5	4.7	3.6	2.9
82.5°	115.9	115.9	102.1	15.3	9.9	8.1	1.0	0.0	0.0	0.0	0.0
85°	23.4	26.2	18.4	0.0	3.4	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°	1786.7	1786.7	1786.7	1786.7	1786.7	1786.7	1786.7	1786.7	1786.7	1786.7	1786.7
2.5°	1558.3	1526.9	1524.8	1505.1	1480.4	1469.2	1462.7	1474.1	1488.2	1489.7	1510.8
5°	1209.6	1176.6	1190.4	1155.3	1162.3	1155.3	1143.9	1145.9	1152.2	1132.7	1156.9
7.5°	849.4	824.5	840.4	831.0	843.5	848.4	841.4	831.0	800.3	796.7	817.7
10°	640.3	611.9	595.1	577.4	581.3	589.3	586.7	579.2	559.7	560.8	581.0
12.5°	514.5	482.8	449.3	405.9	395.2	401.2	395.2	390.8	372.1	373.7	391.6
15°	390.3	364.3	329.2	294.4	275.4	277.3	260.6	248.9	237.2	223.2	234.1
17.5°	263.5	247.6	237.2	226.8	204.2	199.0	178.0	155.4	146.6	140.1	144.7
20°	186.6	178.0	173.8	173.3	160.3	153.8	133.3	119.3	114.9	113.6	116.4
22.5°	155.9	149.7	143.7	140.3	133.8	126.3	110.7	103.7	100.6	99.0	101.1
25°	135.6	131.0	124.7	119.0	116.4	108.4	97.2	92.0	89.9	88.3	89.4
27.5°	120.6	116.4	109.1	105.5	103.4	96.4	86.8	82.6	80.8	80.3	80.0
30°	108.6	104.7	98.0	93.8	90.2	83.9	78.2	74.1	72.2	71.7	71.2
32.5°	96.7	93.5	89.1	85.0	81.1	75.4	70.4	67.0	64.2	63.7	63.4
35°	81.6	78.5	76.1	75.9	72.2	66.8	63.1	58.7	56.4	55.6	55.9
37.5°	72.5	68.3	63.1	65.0	63.9	60.0	55.1	50.7	48.3	47.8	47.8
40°	66.8	62.4	56.4	53.3	56.4	55.6	47.8	43.4	41.1	40.8	40.3
42.5°	61.3	56.9	50.2	45.0	46.5	48.9	41.3	37.2	34.8	34.3	33.5
45°	57.4	52.7	45.2	39.2	36.1	41.1	35.3	30.1	28.8	27.8	27.3
47.5°	53.8	49.4	40.8	34.0	28.8	29.6	28.3	24.7	23.1	22.1	21.8
50°	50.7	46.0	36.9	29.1	23.9	21.8	22.9	19.5	18.2	17.2	16.6
52.5°	47.0	42.6	32.7	25.2	20.0	17.2	17.4	15.3	14.0	13.3	13.0
55°	44.2	39.8	29.4	22.1	17.7	14.0	12.5	12.0	11.2	10.7	10.4
57.5°	40.3	36.1	26.0	18.7	15.1	11.4	9.6	9.6	9.4	8.8	8.6
59°	37.9	34.3	23.9	16.9	13.8	9.9	8.6	8.8	8.6	8.1	7.8
60°	36.1	32.7	22.3	15.6	13.0	9.1	7.8	8.3	8.1	7.5	7.3
62.5°	32.0	29.6	19.2	13.0	11.4	7.3	6.5	7.0	7.0	6.8	6.5
65°	28.1	25.5	16.4	10.9	10.7	6.2	5.2	6.2	6.5	6.0	5.5
67.5°	24.4	21.8	14.3	8.8	9.9	4.9	3.9	5.2	7.0	5.5	4.9
70°	20.8	18.2	11.2	7.0	10.4	3.4	3.1	4.7	8.3	6.0	4.7
72.5°	16.1	14.0	7.8	5.2	11.2	2.3	2.3	3.9	9.4	6.5	4.4
75°	11.2	9.1	4.7	3.1	9.1	1.6	1.6	3.6	8.8	6.0	4.2
77.5°	6.5	4.9	1.6	0.3	4.7	0.0	0.3	2.6	6.2	3.6	1.8
80°	2.3	1.0	0.0	0.0	2.9	0.0	0.0	0.0	0.5	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°	1786.7	1786.7	1786.7	1786.7	1786.7	1786.7	1786.7	1786.7	1786.7	1786.7	1786.7
2.5°	1516.2	1551.3	1582.7	1630.3	1686.7	1751.6	1807.5	1867.5	1923.9	1947.3	1963.4
5°	1161.8	1205.2	1255.9	1325.8	1418.8	1533.4	1640.7	1762.0	1892.5	1957.7	2019.0
7.5°	821.4	865.6	928.4	1002.8	1115.3	1251.7	1392.0	1559.6	1736.3	1839.5	1941.1
10°	590.6	644.9	703.7	805.3	919.6	1049.0	1193.5	1380.6	1577.5	1691.9	1814.3
12.5°	402.0	463.8	552.7	666.5	800.9	927.7	1053.2	1231.7	1460.4	1573.7	1704.9
15°	241.1	275.4	369.5	501.3	666.0	824.0	961.4	1140.5	1384.2	1523.0	1659.4
17.5°	148.6	164.5	215.7	323.8	496.8	696.7	885.0	1109.6	1395.1	1564.0	1710.1
20°	118.5	124.7	141.1	191.2	329.2	556.3	799.0	1103.3	1484.3	1692.1	1848.8
22.5°	102.9	108.9	119.8	139.0	207.1	416.5	717.4	1109.0	1612.1	1884.2	2067.1
25°	90.7	95.9	106.3	122.1	151.8	293.4	630.1	1134.5	1778.7	2122.5	2316.8
27.5°	81.1	85.5	95.1	109.7	130.2	204.8	531.1	1165.4	1976.2	2366.2	2558.0
30°	72.2	76.1	84.7	98.2	113.0	157.5	422.5	1186.5	2173.9	2558.0	2730.2
32.5°	64.7	67.6	75.4	86.8	98.2	125.5	321.2	1183.1	2320.7	2717.5	2854.2
35°	56.9	59.8	66.5	76.4	85.5	103.7	252.6	1120.0	2448.6	2883.0	2996.1
37.5°	48.3	52.0	58.5	67.3	73.5	91.2	204.2	1043.8	2578.2	3072.2	3154.3
40°	41.1	44.7	50.4	60.0	63.9	86.5	156.9	951.1	2724.0	3283.7	3327.9
42.5°	34.0	37.4	43.4	51.7	60.3	74.6	116.2	845.0	2864.1	3464.6	3486.1
45°	27.5	30.9	37.2	45.5	64.4	61.8	89.9	731.5	2977.1	3615.0	3622.0
47.5°	21.8	24.9	31.4	42.9	60.0	49.4	64.2	642.3	3071.9	3732.5	3714.0
50°	16.9	19.5	26.2	49.1	52.5	40.8	48.6	612.7	3156.9	3805.2	3757.4
52.5°	13.3	15.6	21.6	46.0	40.8	33.8	40.8	640.5	3273.3	3865.5	3781.9
55°	10.7	13.0	16.9	26.2	27.8	28.6	34.8	666.5	3474.2	4006.9	3926.1
57.5°	8.8	11.2	13.8	18.4	21.0	24.2	30.9	669.4	3710.9	4241.8	4165.4
59°	8.1	10.1	12.5	16.4	18.4	22.1	29.1	653.8	3794.3	4327.3	4289.1
60°	7.5	9.6	11.7	15.1	17.2	20.8	28.1	639.0	3798.0	4324.2	4341.8
62.5°	6.5	8.6	10.4	12.7	14.6	17.7	25.2	584.1	3644.1	4182.5	4310.1
65°	5.7	7.5	9.4	10.9	12.5	15.9	22.9	484.1	3381.4	3954.1	4093.2
67.5°	5.2	6.5	8.6	9.6	11.2	14.0	20.3	345.1	3053.2	3674.8	3765.0
70°	4.7	6.2	7.8	8.8	10.1	12.2	17.4	198.3	2578.2	3265.8	3330.0
72.5°	4.4	6.0	7.0	8.3	9.1	10.9	15.9	93.3	1887.8	2616.2	2783.8
75°	3.9	5.5	6.5	7.8	8.6	9.9	13.5	44.7	1255.6	1893.3	2083.7
77.5°	2.3	4.4	6.0	7.0	7.5	8.6	11.2	25.7	801.4	1310.4	1543.5
80°	0.0	1.6	4.4	6.0	6.5	7.3	8.6	20.3	428.8	748.6	898.6
82.5°	0.0	0.0	3.1	4.7	4.4	4.9	6.5	12.7	193.3	489.3	551.4
85°	0.0	0.0	1.0	3.6	3.1	2.3	4.4	4.4	42.4	247.6	309.0
87.5°	0.0	0.0	0.0	0.3	1.6	1.0	1.8	0.5	0.3	18.4	74.8
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°	1786.7	1786.7	1786.7	1786.7	1786.7	1786.7	1786.7	1786.7	1786.7	1786.7
2.5°	2019.8	2039.0	2071.5	2086.9	2079.3	2047.4	2009.2	1970.2	1947.3	1956.4
5°	2144.0	2243.0	2300.2	2319.2	2287.5	2215.7	2121.9	1998.2	1954.3	1942.4
7.5°	2144.0	2330.3	2448.3	2469.1	2398.4	2257.8	2081.9	1888.8	1824.7	1801.3
10°	2068.7	2322.3	2486.8	2519.8	2421.0	2210.8	1975.1	1754.8	1678.6	1654.5
12.5°	1983.7	2256.8	2430.1	2475.6	2394.5	2164.0	1901.1	1664.1	1574.4	1553.4
15°	1931.5	2176.2	2319.7	2352.7	2318.4	2136.7	1883.4	1636.8	1531.3	1511.0
17.5°	1950.2	2113.9	2165.6	2184.8	2207.9	2127.1	1931.5	1696.6	1563.0	1543.8
20°	2020.6	2048.1	2021.4	2045.5	2107.9	2136.5	2046.1	1841.0	1680.7	1655.0
22.5°	2140.1	2014.1	1939.0	1948.6	2024.5	2167.4	2221.2	2047.4	1862.3	1830.1
25°	2279.4	2041.6	1893.3	1884.7	1962.6	2208.2	2381.3	2271.9	2077.2	2041.6
27.5°	2454.5	2103.5	1883.9	1875.3	1941.1	2246.4	2514.3	2493.8	2303.6	2242.8
30°	2589.7	2164.3	1911.7	1892.0	1962.6	2272.9	2621.1	2682.2	2483.9	2443.6
32.5°	2686.6	2236.0	1956.9	1928.3	2023.5	2318.6	2703.5	2854.7	2650.7	2589.7
35°	2760.4	2314.0	2029.9	1982.9	2107.1	2388.0	2780.7	3038.4	2828.2	2761.4
37.5°	2829.5	2423.4	2144.0	2087.9	2238.3	2499.8	2862.2	3246.8	3026.7	2947.0
40°	2925.9	2547.3	2319.9	2270.0	2459.0	2652.0	2964.1	3464.1	3252.5	3152.2
42.5°	3022.3	2680.4	2500.0	2513.5	2734.1	2837.0	3095.6	3693.8	3475.5	3368.4
45°	3110.4	2817.6	2756.5	2818.9	2989.6	3040.0	3226.3	3826.6	3653.5	3550.1
47.5°	3188.9	2989.1	3011.4	3177.4	3280.1	3223.7	3324.0	3941.1	3786.0	3694.8
50°	3280.1	3211.0	3347.4	3582.3	3614.5	3390.0	3412.9	4076.8	3940.9	3867.6
52.5°	3379.9	3444.8	3719.5	3926.6	3916.2	3570.6	3502.3	4228.8	4153.2	4084.3
55°	3493.2	3633.7	4047.2	4248.8	4240.0	3772.2	3650.4	4416.7	4419.3	4356.9
57.5°	3661.3	3796.4	4269.6	4509.4	4524.2	4005.1	3901.4	4627.1	4659.9	4618.3
59°	3781.9	3901.9	4357.7	4618.3	4678.6	4185.1	4084.8	4749.3	4727.7	4689.8
60°	3871.2	3968.9	4401.3	4675.2	4768.2	4307.3	4220.2	4821.0	4735.8	4689.8
62.5°	4092.4	4115.0	4480.1	4739.7	4871.4	4578.6	4601.2	4943.1	4679.9	4604.8
65°	4195.5	4207.2	4479.0	4624.3	4771.6	4789.8	4946.8	4946.8	4543.5	4428.1
67.5°	4152.4	4096.0	4256.9	4241.8	4388.9	4664.3	5076.7	4765.4	4282.6	4133.4
70°	3801.6	3584.6	3513.2	3519.7	3632.2	4057.0	4819.4	4231.7	3788.9	3614.5
72.5°	3163.2	2642.7	2466.2	2667.6	2697.0	3117.9	4107.2	3186.8	2794.2	2630.7
75°	2544.2	1862.9	1576.0	1788.5	1838.4	2281.7	3177.2	1984.7	1632.1	1504.8
77.5°	1827.8	1337.2	1130.9	1116.1	1180.5	1447.1	2254.5	998.9	833.1	777.5
80°	1038.4	880.1	947.7	894.1	926.6	904.8	1071.1	438.1	358.9	335.5
82.5°	626.8	520.2	563.4	469.0	593.5	516.8	412.6	140.3	121.9	115.9
85°	407.7	284.3	148.1	99.3	204.5	330.3	92.2	38.2	29.4	23.4
87.5°	140.6	72.5	7.3	3.1	21.8	61.6	3.4	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

(END OF REPORT)