

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: P324489

Luminaire Tested: **GAN-SA5C-740-U-SLR-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324489  
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-SA5C-740-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 1050mA 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: 26206 lumens  
Efficiency: N/A  
Efficacy: 93.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G4

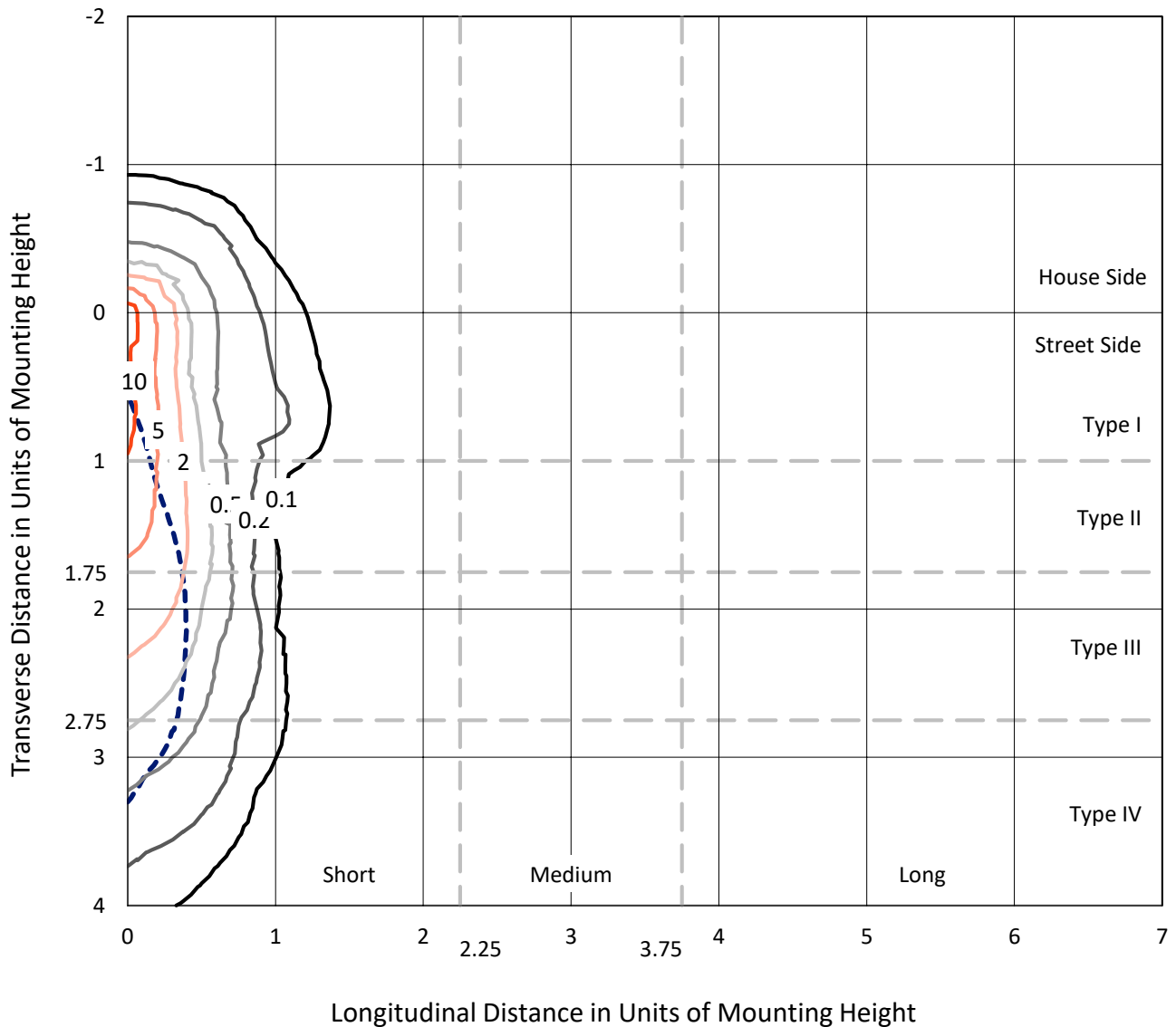
Input Watts (W): 279  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

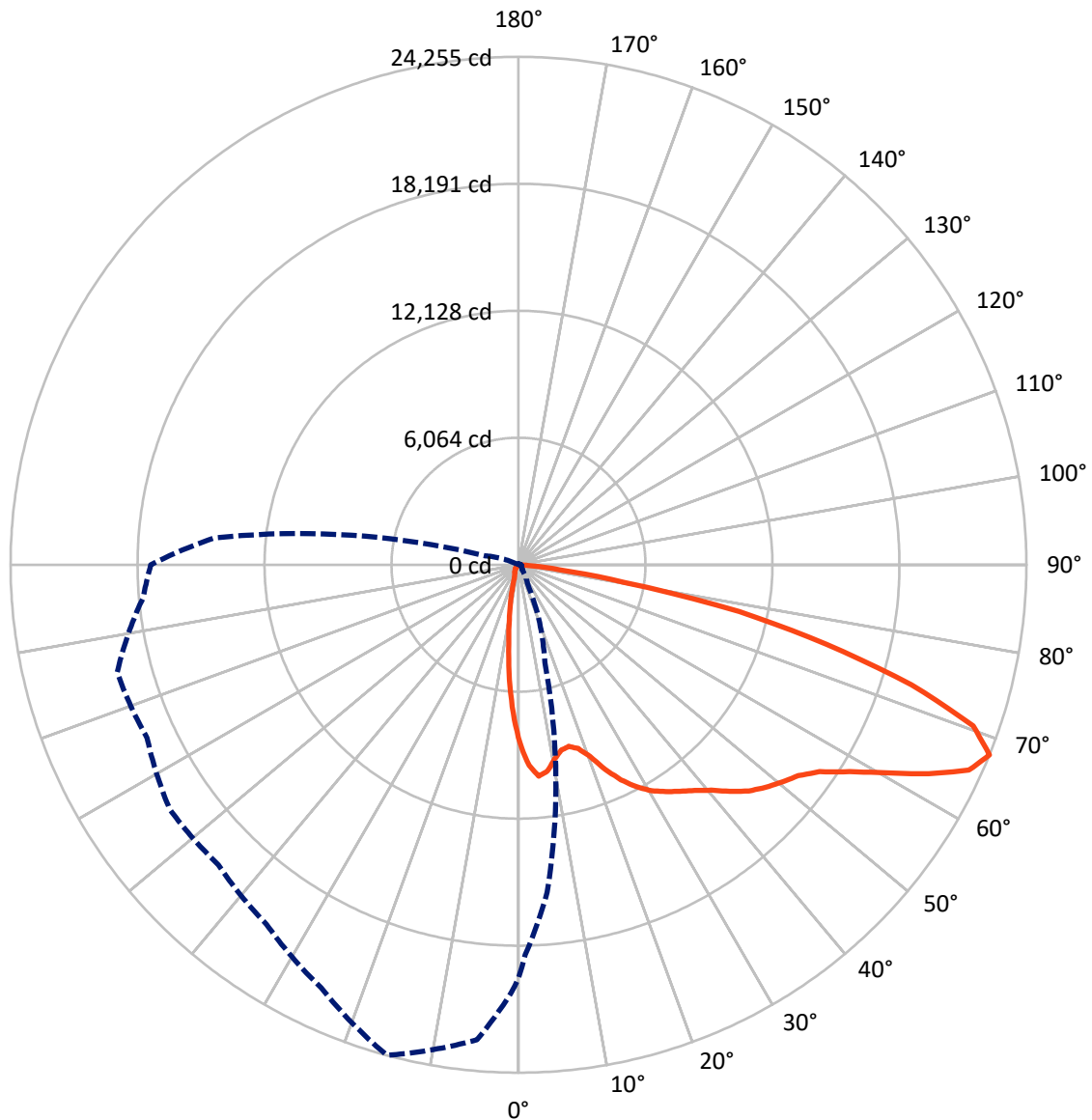
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 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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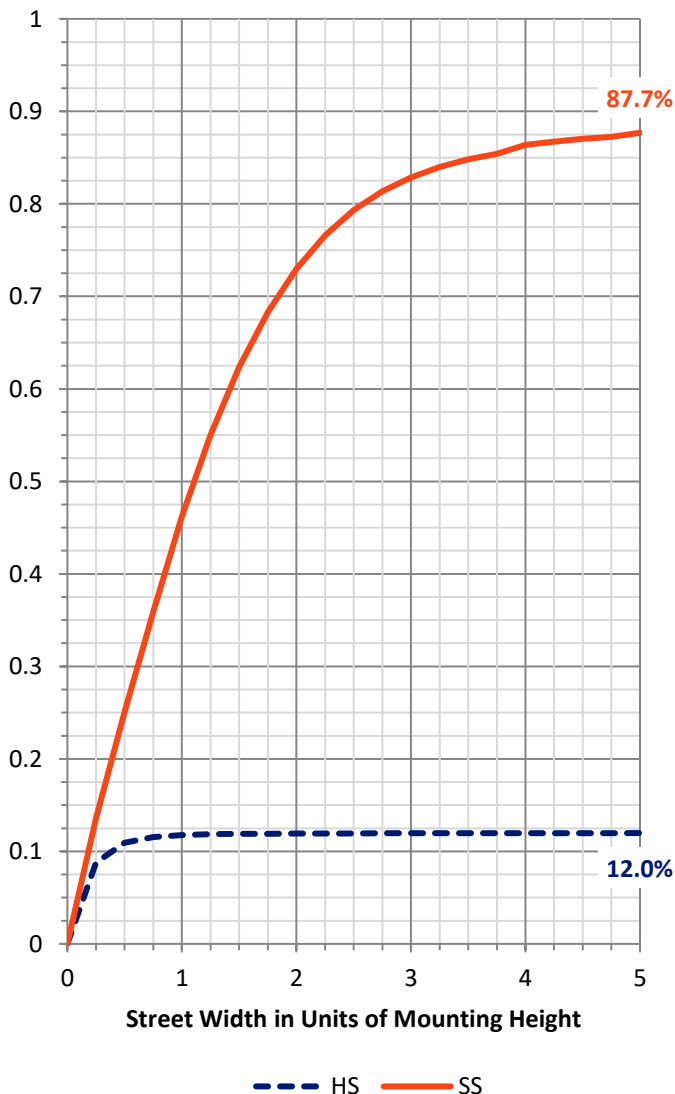
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3171.8	0.0	3171.8
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	23034.2	0.0	23034.2
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	26206.0	0.0	26206.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	655.2	2.5
10°-20°	1304.1	5.0
20°-30°	1851.8	7.1
30°-40°	2735.3	10.4
40°-50°	3944.8	15.1
50°-60°	5537.7	21.1
60°-70°	6455.4	24.6
70°-80°	3300.1	12.6
80°-90°	421.5	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°	26206.0	100.0
0°-180°	26206.0	100.0

**Coefficient of Utilization**

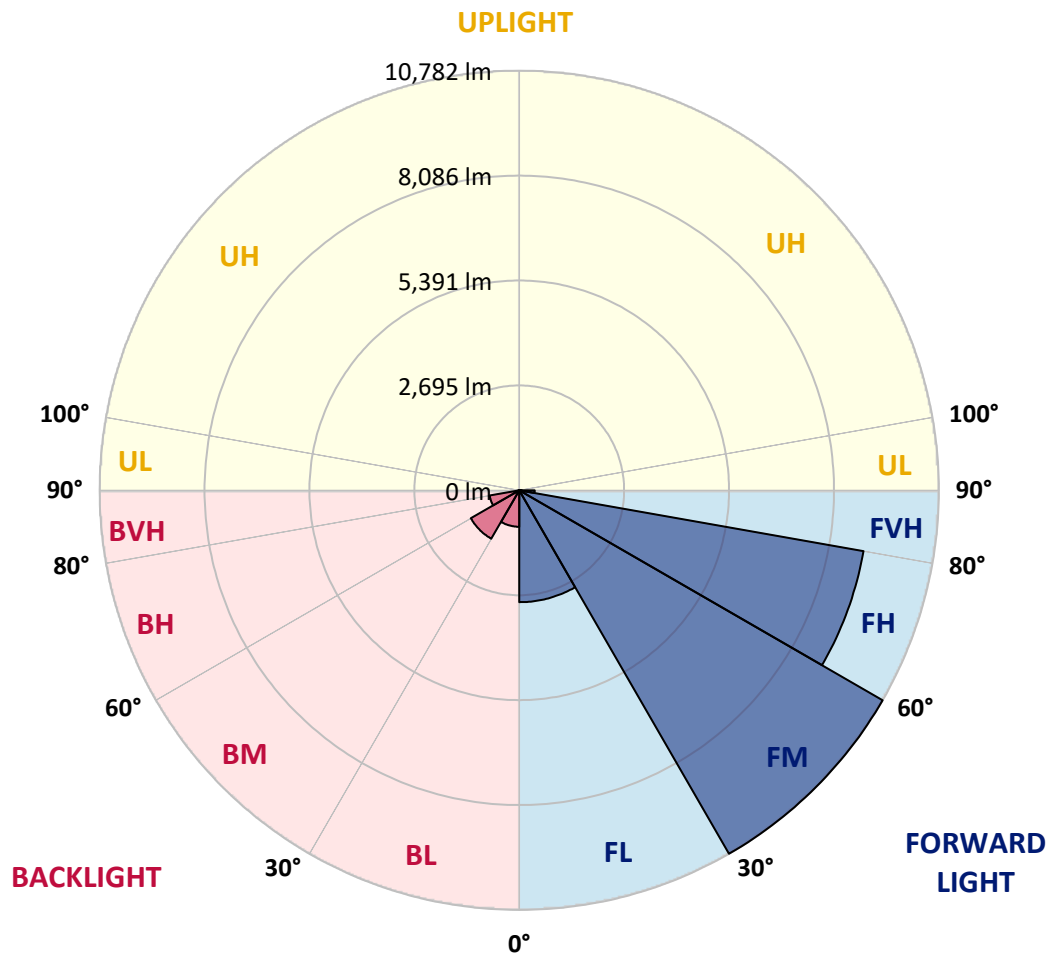


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2874.3	11.0			
FM (30°-60°)	10781.6	41.1			
FH (60°-80°)	8982.5	34.3			G4/12000
FVH (80°-90°)	395.9	1.5			G3/500
BL (0°-30°)	936.8	3.6	B2/1000		
BM (30°-60°)	1436.3	5.5	B2/2500		
BH (60°-80°)	773.1	2.9	B2/1000		G2/1000
BVH (80°-90°)	25.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8536.6	8536.6	8536.6	8536.6	8536.6	8536.6	8536.6	8536.6	8536.6	8536.6	8536.6
2.5°	9347.3	9275.2	9195.8	8936.3	8695.5	8419.9	8195.1	8038.7	7842.6	7588.0	7523.5
5°	9280.2	9203.2	8953.7	8376.4	7871.1	7379.5	6905.2	6627.1	6282.0	5931.9	5845.0
7.5°	8606.1	8525.4	8165.3	7374.5	6694.2	5984.0	5368.2	4987.1	4597.3	4277.0	4106.9
10°	7904.6	7816.5	7411.8	6452.1	5614.1	4972.2	4520.3	4156.5	3787.8	3445.2	3172.0
12.5°	7421.7	7306.2	6866.7	5779.2	5049.2	4613.4	4191.3	3755.5	3256.5	2889.0	2588.5
15°	7219.3	7087.7	6623.4	5519.7	4849.3	4337.8	3787.8	3252.7	2668.0	2247.1	1971.5
17.5°	7375.8	7204.4	6706.6	5502.3	4598.5	3902.0	3206.8	2578.6	1944.2	1518.4	1322.2
20°	7907.1	7682.4	7050.5	5497.4	4294.3	3384.3	2502.9	1792.7	1281.2	1030.4	927.4
22.5°	8743.9	8447.2	7544.6	5537.1	3980.2	2840.6	1807.6	1217.9	962.2	831.8	771.0
25°	9754.5	9410.6	8256.0	5677.4	3704.6	2311.7	1313.5	962.2	811.9	716.3	665.4
27.5°	10715.4	10436.1	9154.8	5879.7	3491.1	1884.6	1066.4	815.7	694.0	630.7	589.7
30°	11675.1	11323.7	10077.3	6120.6	3234.1	1595.3	937.3	743.7	622.0	555.0	528.9
32.5°	12372.8	12081.0	10799.8	6294.4	2959.7	1406.6	838.0	680.3	581.0	512.7	474.3
35°	13193.4	12863.2	11419.3	6332.9	2783.4	1287.4	753.6	612.1	504.0	443.2	402.2
37.5°	14079.9	13668.9	12134.4	6248.5	2645.6	1229.1	690.3	581.0	470.5	408.5	365.0
40°	15060.6	14596.3	12821.0	6126.8	2510.3	1209.2	641.9	557.4	444.5	381.1	336.4
42.5°	16093.6	15546.1	13415.7	5998.9	2424.7	1140.9	636.9	533.8	424.6	356.3	311.6
45°	16961.4	16406.4	14026.5	5956.7	2363.8	1066.4	658.0	517.7	410.9	336.4	293.0
47.5°	17652.9	17127.7	14652.2	6051.1	2329.1	998.2	599.6	538.8	403.5	319.1	276.9
50°	18478.5	17883.8	15533.7	6332.9	2278.2	929.9	542.5	617.0	403.5	307.9	263.2
52.5°	19513.9	18925.4	16516.9	6769.9	2176.3	835.5	487.9	618.3	407.2	293.0	245.8
55°	20816.2	20389.2	17921.1	7249.1	2013.7	696.5	422.1	531.4	392.3	265.7	229.7
57.5°	22065.2	21716.3	19201.0	7576.9	1796.5	543.8	367.5	428.3	358.8	233.4	204.8
59°	22406.6	22025.5	19670.3	7591.8	1633.8	474.3	340.2	353.8	351.3	218.5	189.9
60°	22406.6	22001.9	19805.7	7512.3	1515.9	435.8	322.8	315.3	366.2	208.6	181.3
62.5°	22000.6	21432.0	19366.2	6974.7	1236.5	371.2	281.8	260.7	329.0	187.5	160.2
65°	21156.4	20328.3	17868.9	6002.7	1102.5	340.2	243.3	213.5	228.4	165.1	140.3
67.5°	19748.5	18626.2	15709.9	4849.3	1049.1	331.5	209.8	181.3	172.6	141.5	122.9
70°	17269.3	16024.0	13089.1	3812.6	1003.1	327.8	176.3	152.7	139.0	119.2	104.3
72.5°	12568.9	11270.3	9292.6	2980.8	975.8	335.2	141.5	127.9	114.2	93.1	80.7
75°	7189.5	6339.1	5223.0	1969.0	831.8	320.3	109.3	106.8	81.9	67.0	55.9
77.5°	3714.6	3601.6	3129.8	756.1	398.5	140.3	72.0	62.1	48.4	41.0	33.5
80°	1602.8	1585.4	1371.9	218.5	105.5	78.2	41.0	26.1	22.3	17.4	13.7
82.5°	553.7	553.7	487.9	73.2	47.2	38.5	5.0	0.0	0.0	0.0	0.0
85°	111.7	125.4	88.1	0.0	16.1	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°	8536.6	8536.6	8536.6	8536.6	8536.6	8536.6	8536.6	8536.6	8536.6	8536.6	8536.6
2.5°	7445.3	7295.1	7285.1	7190.8	7072.8	7019.4	6988.4	7043.0	7110.1	7117.5	7218.1
5°	5779.2	5621.5	5687.3	5519.7	5553.2	5519.7	5465.1	5475.0	5504.8	5411.7	5527.2
7.5°	4058.5	3939.3	4015.0	3970.3	4029.9	4053.5	4020.0	3970.3	3823.8	3806.4	3907.0
10°	3059.1	2923.7	2843.0	2758.6	2777.2	2815.7	2803.3	2767.3	2674.2	2679.2	2776.0
12.5°	2458.2	2306.7	2146.6	1939.2	1888.3	1916.9	1888.3	1867.2	1777.8	1785.3	1870.9
15°	1864.7	1740.6	1573.0	1406.6	1316.0	1324.7	1245.2	1189.4	1133.5	1066.4	1118.6
17.5°	1258.9	1183.1	1133.5	1083.8	975.8	951.0	850.4	742.4	700.2	669.2	691.5
20°	891.4	850.4	830.6	828.1	766.0	735.0	636.9	569.8	548.7	542.5	556.2
22.5°	744.9	715.1	686.5	670.4	639.4	603.4	528.9	495.4	480.5	473.0	482.9
25°	648.1	625.7	595.9	568.6	556.2	517.7	464.3	439.5	429.6	422.1	427.1
27.5°	576.1	556.2	521.4	504.0	494.1	460.6	414.7	394.8	386.1	383.6	382.4
30°	518.9	500.3	468.0	448.2	430.8	401.0	373.7	353.8	345.1	342.7	340.2
32.5°	461.8	446.9	425.8	406.0	387.3	360.0	336.4	320.3	306.7	304.2	302.9
35°	389.8	374.9	363.8	362.5	345.1	319.1	301.7	280.6	269.4	265.7	266.9
37.5°	346.4	326.5	301.7	310.4	305.4	286.8	263.2	242.1	230.9	228.4	228.4
40°	319.1	298.0	269.4	254.5	269.4	265.7	228.4	207.3	196.2	194.9	192.4
42.5°	293.0	271.9	239.6	214.8	222.2	233.4	197.4	177.5	166.4	163.9	160.2
45°	274.4	252.0	216.0	187.5	172.6	196.2	168.8	144.0	137.8	132.8	130.4
47.5°	257.0	235.9	194.9	162.6	137.8	141.5	135.3	117.9	110.5	105.5	104.3
50°	242.1	219.7	176.3	139.0	114.2	104.3	109.3	93.1	86.9	81.9	79.5
52.5°	224.7	203.6	156.4	120.4	95.6	81.9	83.2	73.2	67.0	63.3	62.1
55°	211.1	189.9	140.3	105.5	84.4	67.0	59.6	57.1	53.4	50.9	49.7
57.5°	192.4	172.6	124.2	89.4	72.0	54.6	45.9	45.9	44.7	42.2	41.0
59°	181.3	163.9	114.2	80.7	65.8	47.2	41.0	42.2	41.0	38.5	37.2
60°	172.6	156.4	106.8	74.5	62.1	43.5	37.2	39.7	38.5	36.0	34.8
62.5°	152.7	141.5	91.9	62.1	54.6	34.8	31.0	33.5	33.5	32.3	31.0
65°	134.1	121.7	78.2	52.1	50.9	29.8	24.8	29.8	31.0	28.6	26.1
67.5°	116.7	104.3	68.3	42.2	47.2	23.6	18.6	24.8	33.5	26.1	23.6
70°	99.3	86.9	53.4	33.5	49.7	16.1	14.9	22.3	39.7	28.6	22.3
72.5°	77.0	67.0	37.2	24.8	53.4	11.2	11.2	18.6	44.7	31.0	21.1
75°	53.4	43.5	22.3	14.9	43.5	7.4	7.4	17.4	42.2	28.6	19.9
77.5°	31.0	23.6	7.4	1.2	22.3	0.0	1.2	12.4	29.8	17.4	8.7
80°	11.2	5.0	0.0	0.0	13.7	0.0	0.0	0.0	2.5	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°	8536.6	8536.6	8536.6	8536.6	8536.6	8536.6	8536.6	8536.6	8536.6	8536.6	8536.6
2.5°	7244.2	7411.8	7562.0	7789.2	8058.6	8369.0	8635.9	8922.7	9192.1	9303.8	9380.8
5°	5550.7	5758.1	6000.2	6334.1	6778.6	7326.1	7838.8	8418.6	9041.8	9353.5	9646.5
7.5°	3924.4	4135.4	4435.9	4790.9	5328.5	5980.3	6650.7	7451.5	8295.7	8788.6	9274.0
10°	2821.9	3081.4	3362.0	3847.4	4393.7	5011.9	5702.2	6596.1	7537.1	8083.4	8668.2
12.5°	1920.6	2216.1	2640.7	3184.4	3826.3	4432.2	5031.8	5884.7	6977.2	7518.5	8145.5
15°	1152.1	1316.0	1765.4	2394.9	3182.0	3936.8	4593.6	5448.9	6613.5	7276.4	7928.2
17.5°	710.1	785.9	1030.4	1546.9	2373.7	3328.5	4228.5	5301.2	6665.6	7472.6	8170.3
20°	566.1	595.9	674.1	913.7	1573.0	2658.1	3817.6	5271.4	7091.4	8084.6	8833.3
22.5°	491.6	520.2	572.3	664.2	989.5	1990.1	3427.8	5298.7	7702.3	9002.1	9876.1
25°	433.3	458.1	507.8	583.5	725.0	1401.7	3010.6	5420.4	8498.1	10140.6	11069.2
27.5°	387.3	408.5	454.4	523.9	622.0	978.3	2537.6	5568.1	9441.6	11305.1	12221.3
30°	345.1	363.8	404.7	469.3	540.1	752.3	2018.7	5668.7	10386.4	12221.3	13044.4
32.5°	309.1	322.8	360.0	414.7	469.3	599.6	1534.5	5652.6	11087.8	12983.6	13636.6
35°	271.9	285.5	317.8	365.0	408.5	495.4	1206.7	5350.9	11698.7	13774.4	14314.5
37.5°	230.9	248.3	279.3	321.5	351.3	435.8	975.8	4987.1	12318.2	14678.3	15070.6
40°	196.2	213.5	240.9	286.8	305.4	413.4	749.9	4543.9	13014.6	15688.8	15899.9
42.5°	162.6	178.8	207.3	247.1	288.0	356.3	555.0	4037.4	13683.8	16552.9	16656.0
45°	131.6	147.7	177.5	217.3	307.9	295.5	429.6	3494.8	14223.9	17271.8	17305.3
47.5°	104.3	119.2	150.2	204.8	286.8	235.9	306.7	3069.0	14677.0	17832.9	17744.8
50°	80.7	93.1	125.4	234.6	250.8	194.9	232.2	2927.5	15083.0	18180.5	17952.1
52.5°	63.3	74.5	103.0	219.7	194.9	161.4	194.9	3060.3	15639.2	18468.6	18068.8
55°	50.9	62.1	80.7	125.4	132.8	136.6	166.4	3184.4	16598.9	19143.9	18757.8
57.5°	42.2	53.4	65.8	88.1	100.6	115.5	147.7	3198.1	17729.9	20266.3	19901.2
59°	38.5	48.4	59.6	78.2	88.1	105.5	139.0	3123.6	18128.4	20674.7	20492.2
60°	36.0	45.9	55.9	72.0	81.9	99.3	134.1	3052.8	18145.8	20659.8	20744.2
62.5°	31.0	41.0	49.7	60.8	69.5	84.4	120.4	2790.9	17410.8	19983.2	20592.8
65°	27.3	36.0	44.7	52.1	59.6	75.7	109.3	2312.9	16155.6	18891.9	19556.1
67.5°	24.8	31.0	41.0	45.9	53.4	67.0	96.8	1648.7	14587.6	17557.3	17988.1
70°	22.3	29.8	37.2	42.2	48.4	58.4	83.2	947.3	12318.2	15603.2	15909.8
72.5°	21.1	28.6	33.5	39.7	43.5	52.1	75.7	445.7	9019.5	12499.4	13300.2
75°	18.6	26.1	31.0	37.2	41.0	47.2	64.6	213.5	5998.9	9045.6	9955.6
77.5°	11.2	21.1	28.6	33.5	36.0	41.0	53.4	122.9	3828.8	6260.9	7374.5
80°	0.0	7.4	21.1	28.6	31.0	34.8	41.0	96.8	2048.5	3576.8	4293.1
82.5°	0.0	0.0	14.9	22.3	21.1	23.6	31.0	60.8	923.7	2337.7	2634.5
85°	0.0	0.0	5.0	17.4	14.9	11.2	21.1	21.1	202.4	1183.1	1476.1
87.5°	0.0	0.0	0.0	1.2	7.4	5.0	8.7	2.5	1.2	88.1	357.6
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°	8536.6	8536.6	8536.6	8536.6	8536.6	8536.6	8536.6	8536.6	8536.6	8536.6
2.5°	9650.2	9742.1	9897.2	9970.5	9934.5	9781.8	9599.3	9413.1	9303.8	9347.3
5°	10243.6	10716.6	10989.8	11080.4	10928.9	10586.3	10138.1	9547.1	9337.3	9280.2
7.5°	10243.6	11133.8	11697.4	11796.7	11459.0	10787.4	9946.9	9024.5	8717.8	8606.1
10°	9883.6	11095.3	11881.2	12038.8	11567.1	10562.7	9436.6	8383.9	8020.1	7904.6
12.5°	9477.6	10782.4	11610.5	11827.8	11440.4	10339.2	9082.8	7950.6	7522.3	7421.7
15°	9228.1	10397.6	11082.9	11240.5	11076.7	10208.9	8998.4	7820.2	7316.2	7219.3
17.5°	9317.5	10099.6	10346.7	10438.5	10549.0	10162.9	9228.1	8105.8	7467.6	7375.8
20°	9653.9	9785.5	9657.6	9773.1	10071.1	10207.6	9775.6	8796.0	8030.0	7907.1
22.5°	10225.0	9622.9	9264.1	9310.0	9672.5	10355.4	10612.3	9781.8	8897.8	8743.9
25°	10890.4	9754.5	9045.6	9004.6	9377.1	10550.3	11377.1	10854.4	9924.6	9754.5
27.5°	11727.2	10049.9	9000.9	8959.9	9274.0	10732.8	12012.8	11914.7	11005.9	10715.4
30°	12372.8	10340.5	9133.7	9039.4	9377.1	10859.4	12523.0	12814.8	11867.5	11675.1
32.5°	12835.9	10683.1	9349.7	9213.2	9667.6	11077.9	12916.6	13639.1	12664.5	12372.8
35°	13188.5	11055.6	9698.6	9473.9	10067.3	11409.4	13285.3	14516.9	13512.5	13193.4
37.5°	13518.7	11578.2	10243.6	9975.5	10694.3	11943.2	13675.1	15512.5	14461.0	14079.9
40°	13979.3	12170.4	11084.1	10845.7	11748.3	12670.8	14161.8	16550.4	15539.9	15060.6
42.5°	14439.9	12806.1	11944.5	12009.0	13063.1	13554.7	14790.0	17647.9	16605.1	16093.6
45°	14860.8	13461.6	13169.8	13467.8	14283.5	14524.3	15414.5	18282.3	17455.5	16961.4
47.5°	15235.7	14281.0	14387.7	15181.1	15671.5	15402.1	15881.3	18829.8	18088.7	17652.9
50°	15671.5	15341.2	15993.0	17115.3	17269.3	16196.6	16305.9	19477.9	18828.6	18478.5
52.5°	16148.2	16458.6	17770.8	18760.3	18710.7	17059.5	16732.9	20204.2	19842.9	19513.9
55°	16689.5	17361.1	19336.4	20299.8	20257.6	18022.9	17440.6	21101.8	21114.2	20816.2
57.5°	17492.7	18138.3	20399.1	21545.0	21615.8	19135.2	18639.9	22107.4	22263.8	22065.2
59°	18068.8	18642.4	20820.0	22065.2	22353.2	19995.6	19516.4	22690.9	22587.9	22406.6
60°	18495.9	18962.7	21028.5	22337.1	22781.5	20579.1	20163.2	23033.6	22626.3	22406.6
62.5°	19552.4	19660.4	21404.7	22645.0	23274.4	21875.2	21983.2	23617.1	22359.4	22000.6
65°	20045.3	20101.1	21399.7	22093.7	22797.7	22884.6	23634.4	23634.4	21707.6	21156.4
67.5°	19839.2	19569.8	20338.3	20266.3	20968.9	22284.9	24255.2	22767.9	20461.2	19748.5
70°	18163.1	17126.5	16785.1	16816.1	17353.7	19383.5	23026.1	20217.8	18102.3	17269.3
72.5°	15112.8	12626.1	11783.1	12745.2	12885.5	14896.8	19623.2	15225.8	13349.9	12568.9
75°	12155.5	8900.3	7529.7	8545.2	8783.6	10901.6	15179.8	9482.6	7797.9	7189.5
77.5°	8732.7	6388.8	5403.0	5332.2	5640.1	6913.9	10771.3	4772.3	3980.2	3714.6
80°	4961.0	4205.0	4527.8	4272.0	4427.2	4322.9	5117.5	2093.2	1714.5	1602.8
82.5°	2994.5	2485.5	2691.6	2240.9	2835.6	2469.3	1971.5	670.4	582.3	553.7
85°	1947.9	1358.2	707.7	474.3	977.1	1577.9	440.7	182.5	140.3	111.7
87.5°	671.7	346.4	34.8	14.9	104.3	294.2	16.1	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

(END OF REPORT)