

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: P324439

Luminaire Tested: **GAN-SA5B-730-U-SLR-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324439  
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-SA5B-730-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 800mA 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: 19282 lumens  
Efficiency: N/A  
Efficacy: 91.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3

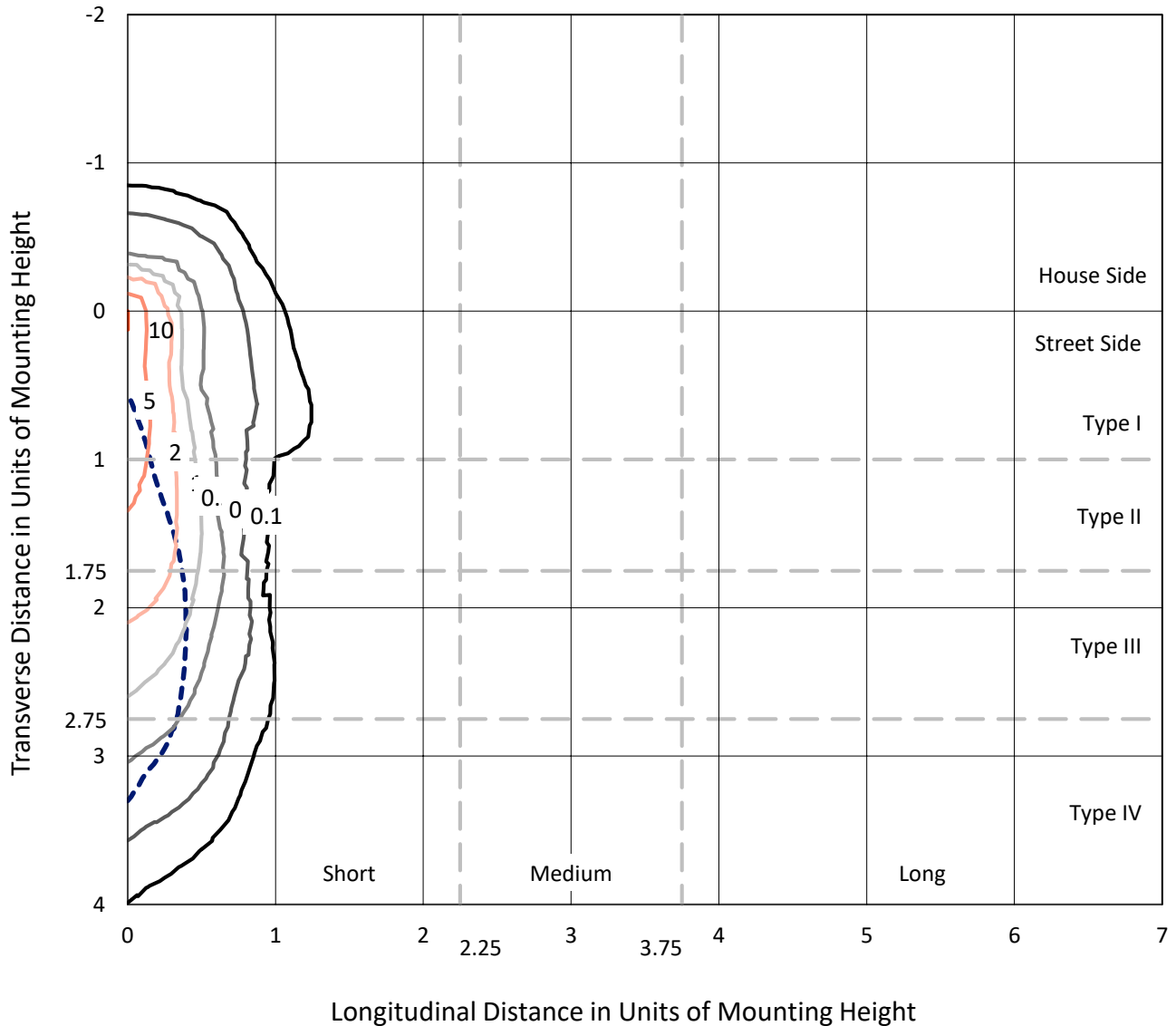
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

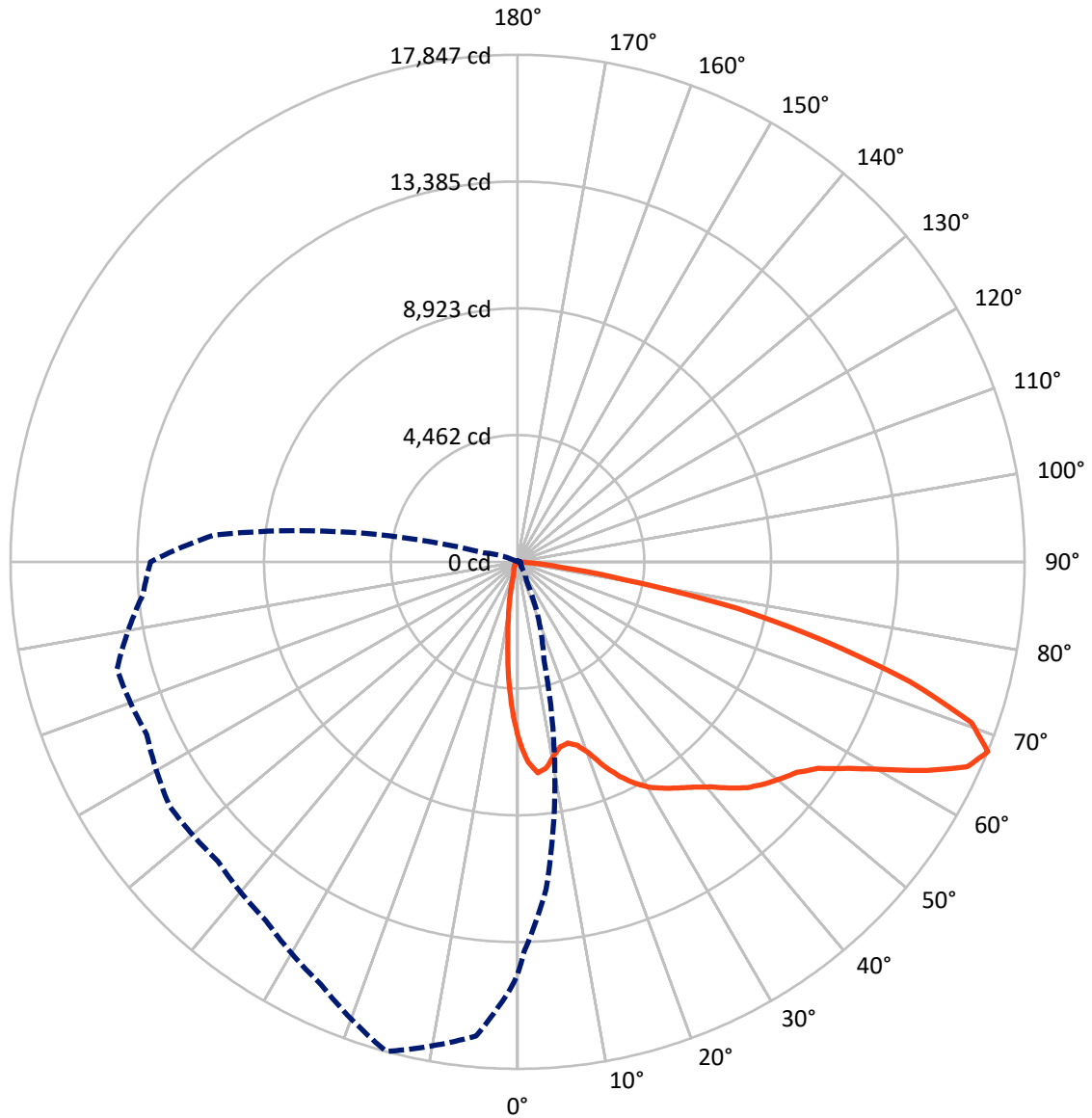
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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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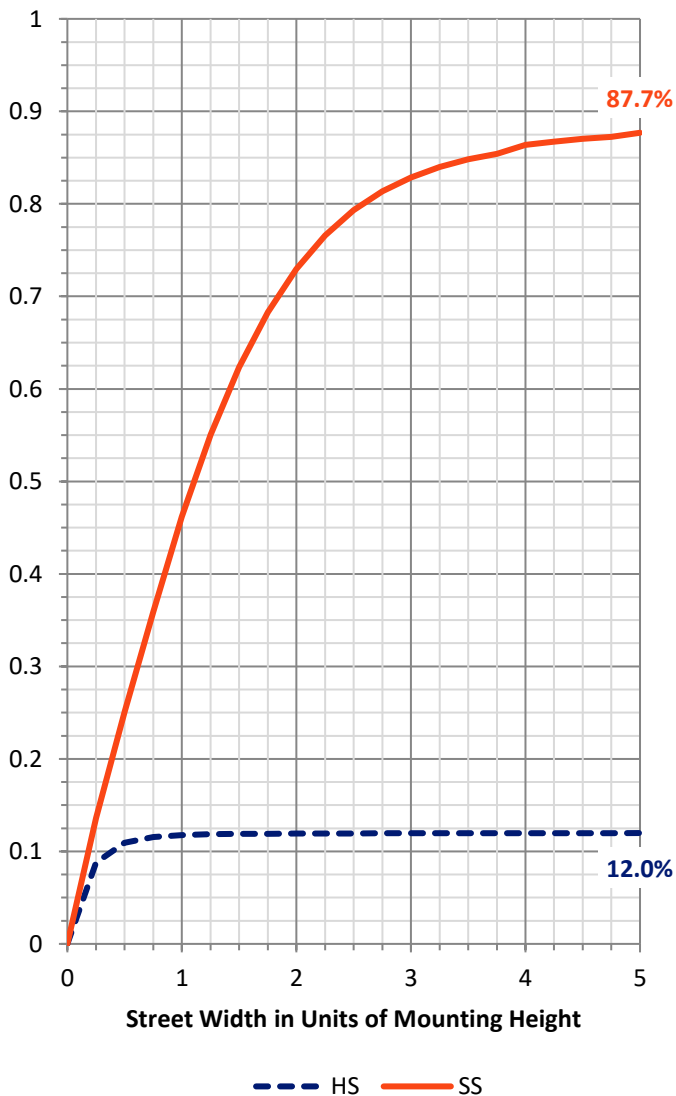
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2333.7	0.0	2333.7
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	16948.2	0.0	16948.2
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	19282.0	0.0	19282.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	482.1	2.5
10°-20°	959.5	5.0
20°-30°	1362.6	7.1
30°-40°	2012.6	10.4
40°-50°	2902.6	15.1
50°-60°	4074.6	21.1
60°-70°	4749.8	24.6
70°-80°	2428.2	12.6
80°-90°	310.1	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°	19282.0	100.0
0°-180°	19282.0	100.0

**Coefficient of Utilization**

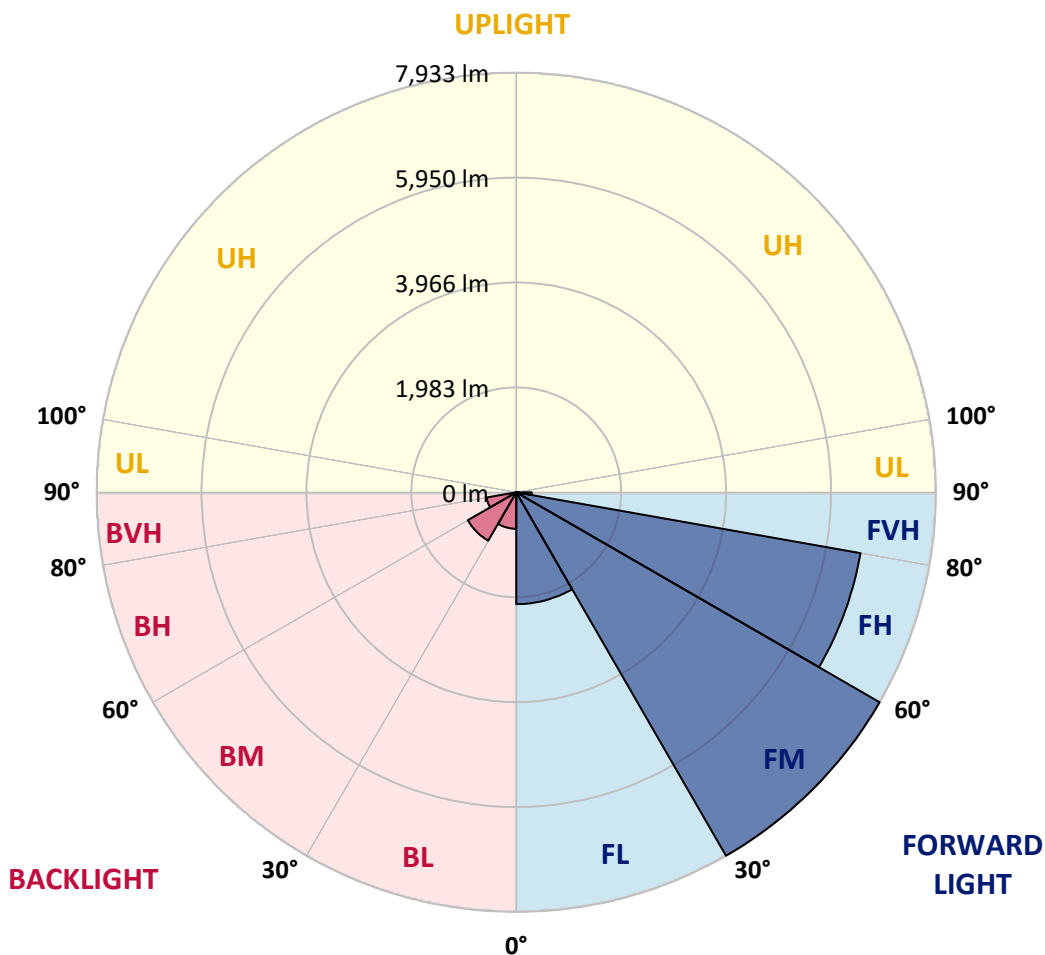


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2114.9	11.0			
FM (30°-60°)	7932.9	41.1			
FH (60°-80°)	6609.2	34.3			G3/7500
FVH (80°-90°)	291.3	1.5			G3/500
BL (0°-30°)	689.3	3.6	B2/1000		
BM (30°-60°)	1056.8	5.5	B2/2500		
BH (60°-80°)	568.8	2.9	B2/1000		G2/1000
BVH (80°-90°)	18.8	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-G3**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6281.1	6281.1	6281.1	6281.1	6281.1	6281.1	6281.1	6281.1	6281.1	6281.1	6281.1
2.5°	6877.6	6824.6	6766.1	6575.2	6398.0	6195.2	6029.9	5914.8	5770.4	5583.2	5535.7
5°	6828.2	6771.6	6588.0	6163.2	5791.5	5429.7	5080.8	4876.1	4622.2	4364.6	4300.7
7.5°	6332.2	6272.9	6007.9	5426.1	4925.5	4403.0	3949.9	3669.4	3382.6	3146.9	3021.8
10°	5816.1	5751.3	5453.5	4747.3	4130.7	3658.5	3326.0	3058.3	2787.0	2534.9	2333.9
12.5°	5460.8	5375.8	5052.4	4252.2	3715.1	3394.5	3083.9	2763.3	2396.1	2125.7	1904.6
15°	5311.9	5215.0	4873.4	4061.3	3568.0	3191.7	2787.0	2393.3	1963.1	1653.4	1450.6
17.5°	5427.0	5300.9	4934.6	4048.5	3383.5	2871.1	2359.5	1897.3	1430.5	1117.2	972.9
20°	5817.9	5652.6	5187.6	4044.9	3159.7	2490.1	1841.6	1319.1	942.7	758.2	682.4
22.5°	6433.6	6215.3	5551.2	4074.1	2928.6	2090.0	1330.0	896.1	707.9	612.0	567.3
25°	7177.2	6924.2	6074.6	4177.3	2725.8	1700.9	966.5	707.9	597.4	527.1	489.6
27.5°	7884.2	7678.7	6736.0	4326.2	2568.7	1386.7	784.7	600.2	510.6	464.0	433.9
30°	8590.3	8331.8	7414.7	4503.4	2379.6	1173.8	689.7	547.2	457.7	408.3	389.1
32.5°	9103.7	8889.1	7946.3	4631.3	2177.7	1035.0	616.6	500.6	427.5	377.3	348.9
35°	9707.5	9464.5	8402.2	4659.7	2048.0	947.3	554.5	450.3	370.9	326.1	296.0
37.5°	10359.8	10057.4	8928.3	4597.5	1946.6	904.3	507.9	427.5	346.2	300.5	268.6
40°	11081.4	10739.8	9433.5	4508.0	1847.1	889.7	472.3	410.2	327.0	280.4	247.6
42.5°	11841.4	11438.6	9871.0	4413.9	1784.0	839.5	468.6	392.8	312.4	262.2	229.3
45°	12479.9	12071.6	10320.5	4382.9	1739.3	784.7	484.1	380.9	302.4	247.6	215.6
47.5°	12988.7	12602.3	10780.9	4452.3	1713.7	734.4	441.2	396.4	296.9	234.8	203.7
50°	13596.2	13158.7	11429.4	4659.7	1676.2	684.2	399.2	454.0	296.9	226.5	193.7
52.5°	14358.0	13925.1	12152.9	4981.2	1601.3	614.8	359.0	454.9	299.6	215.6	180.9
55°	15316.3	15002.1	13186.1	5333.8	1481.7	512.5	310.6	391.0	288.7	195.5	169.0
57.5°	16235.2	15978.6	14127.9	5575.0	1321.8	400.1	270.4	315.1	264.0	171.7	150.7
59°	16486.5	16206.0	14473.1	5585.9	1202.1	348.9	250.3	260.3	258.5	160.8	139.8
60°	16486.5	16188.7	14572.7	5527.5	1115.4	320.6	237.5	232.0	269.5	153.5	133.4
62.5°	16187.7	15769.4	14249.3	5131.9	909.8	273.1	207.4	191.8	242.1	137.9	117.8
65°	15566.6	14957.3	13147.7	4416.7	811.2	250.3	179.0	157.1	168.1	121.5	103.2
67.5°	14530.7	13704.9	11559.2	3568.0	771.9	243.9	154.4	133.4	127.0	104.1	90.4
70°	12706.5	11790.3	9630.8	2805.3	738.1	241.2	129.7	112.4	102.3	87.7	76.7
72.5°	9248.1	8292.6	6837.4	2193.3	718.0	246.6	104.1	94.1	84.0	68.5	59.4
75°	5290.0	4664.2	3843.0	1448.8	612.0	235.7	80.4	78.6	60.3	49.3	41.1
77.5°	2733.1	2650.0	2302.9	556.3	293.2	103.2	53.0	45.7	35.6	30.1	24.7
80°	1179.3	1166.5	1009.4	160.8	77.6	57.5	30.1	19.2	16.4	12.8	10.0
82.5°	407.4	407.4	359.0	53.9	34.7	28.3	3.7	0.0	0.0	0.0	0.0
85°	82.2	92.3	64.9	0.0	11.9	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°	6281.1	6281.1	6281.1	6281.1	6281.1	6281.1	6281.1	6281.1	6281.1	6281.1	6281.1
2.5°	5478.1	5367.6	5360.3	5290.9	5204.1	5164.8	5142.0	5182.2	5231.5	5237.0	5311.0
5°	4252.2	4136.2	4184.6	4061.3	4086.0	4061.3	4021.1	4028.4	4050.4	3981.9	4066.8
7.5°	2986.2	2898.5	2954.2	2921.3	2965.2	2982.5	2957.8	2921.3	2813.5	2800.7	2874.7
10°	2250.8	2151.2	2091.9	2029.7	2043.5	2071.8	2062.6	2036.1	1967.6	1971.3	2042.5
12.5°	1808.7	1697.2	1579.4	1426.9	1389.4	1410.4	1389.4	1373.9	1308.1	1313.6	1376.6
15°	1372.0	1280.7	1157.4	1035.0	968.3	974.7	916.2	875.1	834.0	784.7	823.0
17.5°	926.3	870.5	834.0	797.5	718.0	699.7	625.7	546.3	515.2	492.4	508.8
20°	655.9	625.7	611.1	609.3	563.6	540.8	468.6	419.3	403.8	399.2	409.2
22.5°	548.1	526.2	505.2	493.3	470.4	444.0	389.1	364.5	353.5	348.0	355.3
25°	476.8	460.4	438.5	418.4	409.2	380.9	341.6	323.4	316.1	310.6	314.2
27.5°	423.9	409.2	383.7	370.9	363.6	338.9	305.1	290.5	284.1	282.3	281.4
30°	381.8	368.1	344.4	329.8	317.0	295.1	275.0	260.3	253.9	252.1	250.3
32.5°	339.8	328.9	313.3	298.7	285.0	264.9	247.6	235.7	225.6	223.8	222.9
35°	286.8	275.9	267.6	266.7	253.9	234.8	222.0	206.4	198.2	195.5	196.4
37.5°	254.9	240.2	222.0	228.4	224.7	211.0	193.7	178.1	169.9	168.1	168.1
40°	234.8	219.2	198.2	187.3	198.2	195.5	168.1	152.6	144.3	143.4	141.6
42.5°	215.6	200.1	176.3	158.0	163.5	171.7	145.2	130.6	122.4	120.6	117.8
45°	201.9	185.4	158.9	137.9	127.0	144.3	124.2	106.0	101.4	97.7	95.9
47.5°	189.1	173.6	143.4	119.7	101.4	104.1	99.6	86.8	81.3	77.6	76.7
50°	178.1	161.7	129.7	102.3	84.0	76.7	80.4	68.5	63.9	60.3	58.5
52.5°	165.3	149.8	115.1	88.6	70.3	60.3	61.2	53.9	49.3	46.6	45.7
55°	155.3	139.8	103.2	77.6	62.1	49.3	43.8	42.0	39.3	37.5	36.5
57.5°	141.6	127.0	91.3	65.8	53.0	40.2	33.8	33.8	32.9	31.1	30.1
59°	133.4	120.6	84.0	59.4	48.4	34.7	30.1	31.1	30.1	28.3	27.4
60°	127.0	115.1	78.6	54.8	45.7	32.0	27.4	29.2	28.3	26.5	25.6
62.5°	112.4	104.1	67.6	45.7	40.2	25.6	22.8	24.7	24.7	23.8	22.8
65°	98.7	89.5	57.5	38.4	37.5	21.9	18.3	21.9	22.8	21.0	19.2
67.5°	85.9	76.7	50.2	31.1	34.7	17.4	13.7	18.3	24.7	19.2	17.4
70°	73.1	63.9	39.3	24.7	36.5	11.9	11.0	16.4	29.2	21.0	16.4
72.5°	56.6	49.3	27.4	18.3	39.3	8.2	8.2	13.7	32.9	22.8	15.5
75°	39.3	32.0	16.4	11.0	32.0	5.5	5.5	12.8	31.1	21.0	14.6
77.5°	22.8	17.4	5.5	0.9	16.4	0.0	0.9	9.1	21.9	12.8	6.4
80°	8.2	3.7	0.0	0.0	10.0	0.0	0.0	0.0	1.8	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°	6281.1	6281.1	6281.1	6281.1	6281.1	6281.1	6281.1	6281.1	6281.1	6281.1	6281.1
2.5°	5330.1	5453.5	5564.0	5731.2	5929.4	6157.8	6354.2	6565.2	6763.4	6845.6	6902.2
5°	4084.2	4236.7	4414.8	4660.6	4987.6	5390.4	5767.7	6194.3	6652.9	6882.1	7097.7
7.5°	2887.5	3042.8	3263.9	3525.1	3920.6	4400.2	4893.5	5482.7	6103.9	6466.5	6823.7
10°	2076.3	2267.3	2473.7	2830.9	3232.8	3687.7	4195.6	4853.3	5545.7	5947.7	6377.9
12.5°	1413.2	1630.6	1943.0	2343.1	2815.3	3261.1	3702.3	4329.9	5133.7	5532.0	5993.3
15°	847.7	968.3	1299.0	1762.1	2341.2	2896.6	3379.9	4009.3	4866.1	5353.9	5833.5
17.5°	522.5	578.2	758.2	1138.2	1746.6	2449.0	3111.3	3900.6	4904.5	5498.2	6011.6
20°	416.5	438.5	496.0	672.3	1157.4	1955.8	2808.9	3878.6	5217.8	5948.6	6499.4
22.5°	361.7	382.7	421.1	488.7	728.0	1464.3	2522.1	3898.7	5667.2	6623.6	7266.7
25°	318.8	337.1	373.6	429.3	533.5	1031.3	2215.2	3988.2	6252.8	7461.3	8144.6
27.5°	285.0	300.5	334.3	385.5	457.7	719.8	1867.1	4096.9	6947.0	8318.1	8992.3
30°	253.9	267.6	297.8	345.3	397.4	553.6	1485.3	4170.9	7642.2	8992.3	9597.9
32.5°	227.5	237.5	264.9	305.1	345.3	441.2	1129.1	4159.1	8158.3	9553.2	10033.6
35°	200.1	210.1	233.9	268.6	300.5	364.5	887.9	3937.1	8607.7	10135.0	10532.4
37.5°	169.9	182.7	205.5	236.6	258.5	320.6	718.0	3669.4	9063.5	10800.1	11088.7
40°	144.3	157.1	177.2	211.0	224.7	304.2	551.7	3343.3	9576.0	11543.6	11698.9
42.5°	119.7	131.5	152.6	181.8	211.9	262.2	408.3	2970.6	10068.4	12179.4	12255.2
45°	96.8	108.7	130.6	159.9	226.5	217.4	316.1	2571.4	10465.7	12708.3	12733.0
47.5°	76.7	87.7	110.5	150.7	211.0	173.6	225.6	2258.1	10799.1	13121.2	13056.3
50°	59.4	68.5	92.3	172.6	184.5	143.4	170.8	2154.0	11097.8	13377.0	13208.9
52.5°	46.6	54.8	75.8	161.7	143.4	118.8	143.4	2251.7	11507.1	13588.9	13294.8
55°	37.5	45.7	59.4	92.3	97.7	100.5	122.4	2343.1	12213.2	14085.8	13801.7
57.5°	31.1	39.3	48.4	64.9	74.0	85.0	108.7	2353.1	13045.4	14911.6	14643.1
59°	28.3	35.6	43.8	57.5	64.9	77.6	102.3	2298.3	13338.6	15212.2	15077.9
60°	26.5	33.8	41.1	53.0	60.3	73.1	98.7	2246.2	13351.4	15201.2	15263.3
62.5°	22.8	30.1	36.5	44.8	51.2	62.1	88.6	2053.5	12810.6	14703.3	15151.9
65°	20.1	26.5	32.9	38.4	43.8	55.7	80.4	1701.8	11887.1	13900.4	14389.1
67.5°	18.3	22.8	30.1	33.8	39.3	49.3	71.3	1213.1	10733.4	12918.4	13235.4
70°	16.4	21.9	27.4	31.1	35.6	42.9	61.2	697.0	9063.5	11480.6	11706.2
72.5°	15.5	21.0	24.7	29.2	32.0	38.4	55.7	327.9	6636.4	9196.9	9786.1
75°	13.7	19.2	22.8	27.4	30.1	34.7	47.5	157.1	4413.9	6655.6	7325.2
77.5°	8.2	15.5	21.0	24.7	26.5	30.1	39.3	90.4	2817.2	4606.7	5426.1
80°	0.0	5.5	15.5	21.0	22.8	25.6	30.1	71.3	1507.2	2631.7	3158.8
82.5°	0.0	0.0	11.0	16.4	15.5	17.4	22.8	44.8	679.6	1720.1	1938.4
85°	0.0	0.0	3.7	12.8	11.0	8.2	15.5	15.5	148.9	870.5	1086.1
87.5°	0.0	0.0	0.0	0.9	5.5	3.7	6.4	1.8	0.9	64.9	263.1
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°	6281.1	6281.1	6281.1	6281.1	6281.1	6281.1	6281.1	6281.1	6281.1	6281.1
2.5°	7100.5	7168.1	7282.2	7336.1	7309.7	7197.3	7063.0	6926.0	6845.6	6877.6
5°	7537.1	7885.1	8086.1	8152.8	8041.3	7789.2	7459.5	7024.6	6870.3	6828.2
7.5°	7537.1	8192.1	8606.8	8679.9	8431.4	7937.2	7318.8	6640.1	6414.4	6332.2
10°	7272.2	8163.8	8742.0	8858.0	8510.9	7771.9	6943.3	6168.7	5901.1	5816.1
12.5°	6973.5	7933.6	8542.8	8702.7	8417.7	7607.4	6683.0	5849.9	5534.8	5460.8
15°	6789.9	7650.4	8154.6	8270.6	8150.1	7511.5	6620.9	5754.0	5383.1	5311.9
17.5°	6855.7	7431.1	7612.9	7680.5	7761.8	7477.7	6789.9	5964.1	5494.6	5427.0
20°	7103.2	7200.0	7105.9	7190.9	7410.1	7510.6	7192.7	6472.0	5908.4	5817.9
22.5°	7523.4	7080.4	6816.4	6850.2	7116.9	7619.3	7808.4	7197.3	6546.9	6433.6
25°	8013.0	7177.2	6655.6	6625.5	6899.5	7762.7	8371.1	7986.5	7302.3	7177.2
27.5°	8628.7	7394.6	6622.7	6592.6	6823.7	7897.0	8838.8	8766.6	8098.0	7884.2
30°	9103.7	7608.4	6720.5	6651.0	6899.5	7990.2	9214.3	9428.9	8731.9	8590.3
32.5°	9444.5	7860.5	6879.4	6778.9	7113.3	8151.0	9503.8	10035.5	9318.4	9103.7
35°	9703.9	8134.5	7136.1	6970.8	7407.4	8394.9	9775.1	10681.3	9942.3	9707.5
37.5°	9946.9	8519.1	7537.1	7339.8	7868.7	8787.7	10062.0	11413.9	10640.2	10359.8
40°	10285.8	8954.8	8155.5	7980.1	8644.2	9323.0	10420.0	12177.6	11434.0	11081.4
42.5°	10624.7	9422.5	8788.6	8836.1	9611.6	9973.4	10882.3	12985.1	12217.8	11841.4
45°	10934.3	9904.8	9690.2	9909.4	10509.6	10686.8	11341.7	13451.9	12843.5	12479.9
47.5°	11210.2	10507.7	10586.3	11170.0	11530.8	11332.6	11685.2	13854.7	13309.4	12988.7
50°	11530.8	11287.8	11767.4	12593.2	12706.5	11917.2	11997.6	14331.6	13853.8	13596.2
52.5°	11881.6	12110.0	13075.5	13803.6	13767.0	12552.1	12311.9	14865.9	14600.1	14358.0
55°	12279.9	12774.1	14227.4	14936.3	14905.2	13261.0	12832.5	15526.4	15535.5	15316.3
57.5°	12870.9	13345.9	15009.4	15852.5	15904.6	14079.4	13715.0	16266.3	16381.4	16235.2
59°	13294.8	13716.8	15319.0	16235.2	16447.2	14712.5	14359.9	16695.6	16619.8	16486.5
60°	13609.0	13952.5	15472.5	16435.3	16762.3	15141.8	14835.8	16947.8	16648.1	16486.5
62.5°	14386.4	14465.8	15749.3	16661.8	17125.0	16095.5	16175.0	17377.1	16451.7	16187.7
65°	14749.0	14790.1	15745.6	16256.3	16774.2	16838.1	17389.9	17389.9	15972.2	15566.6
67.5°	14597.4	14399.2	14964.6	14911.6	15428.6	16396.9	17846.6	16752.3	15055.0	14530.7
70°	13364.2	12601.4	12350.2	12373.1	12768.6	14262.1	16942.3	14876.0	13319.4	12706.5
72.5°	11119.8	9290.1	8669.8	9377.8	9481.0	10960.8	14438.4	11202.9	9822.6	9248.1
75°	8943.9	6548.7	5540.2	6287.5	6462.9	8021.3	11169.1	6977.1	5737.6	5290.0
77.5°	6425.4	4700.8	3975.5	3923.4	4149.9	5087.2	7925.3	3511.4	2928.6	2733.1
80°	3650.3	3094.0	3331.5	3143.3	3257.5	3180.7	3765.4	1540.1	1261.5	1179.3
82.5°	2203.3	1828.8	1980.4	1648.8	2086.4	1816.9	1450.6	493.3	428.4	407.4
85°	1433.2	999.3	520.7	348.9	718.9	1161.0	324.3	134.3	103.2	82.2
87.5°	494.2	254.9	25.6	11.0	76.7	216.5	11.9	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)