

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: P324431

Luminaire Tested: **GAN-SA7A-730-U-SLR-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324431  
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-SA7A-730-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 615mA 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: 22251 lumens  
Efficiency: N/A  
Efficacy: 98.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G4

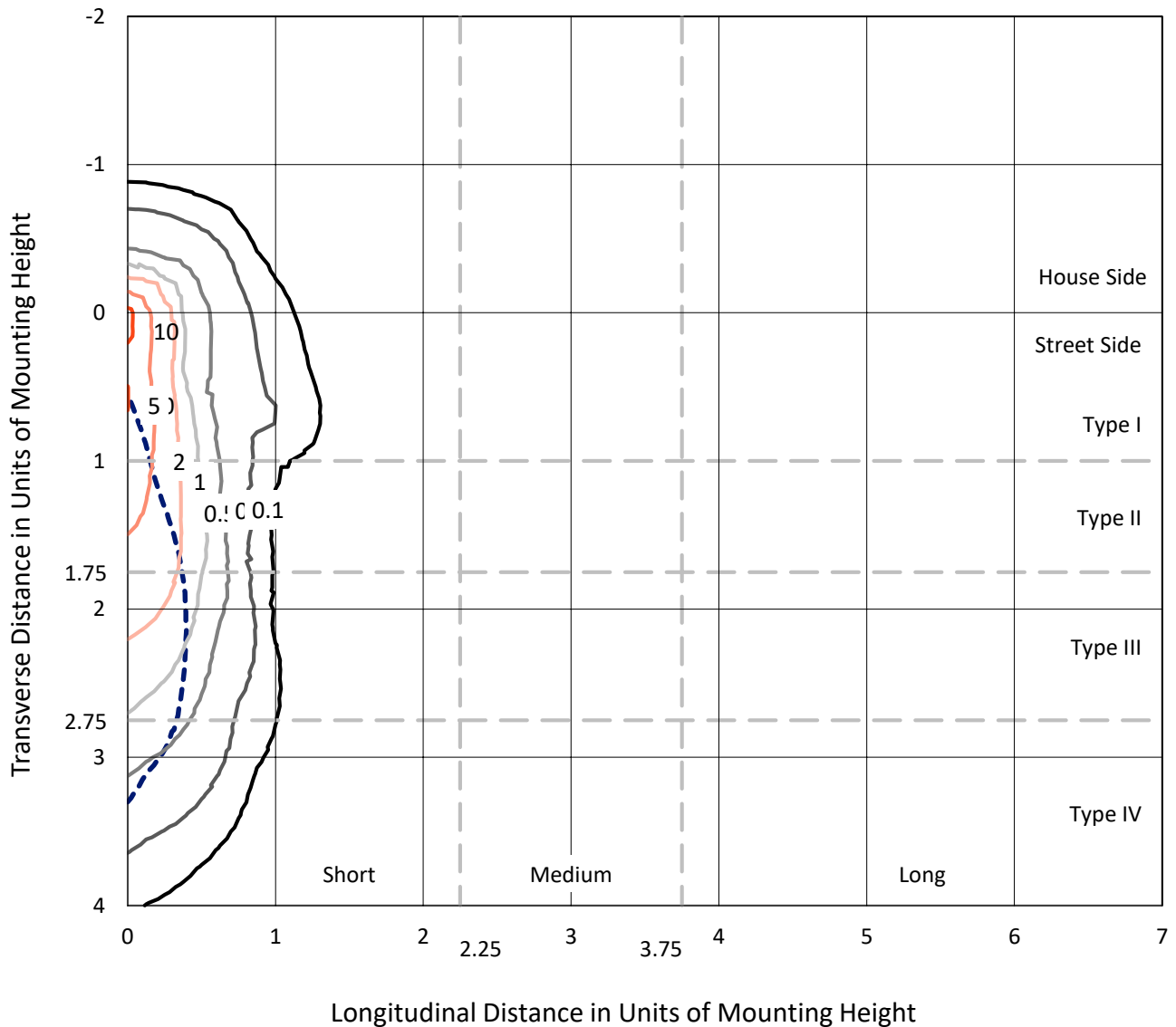
Input Watts (W): 226  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

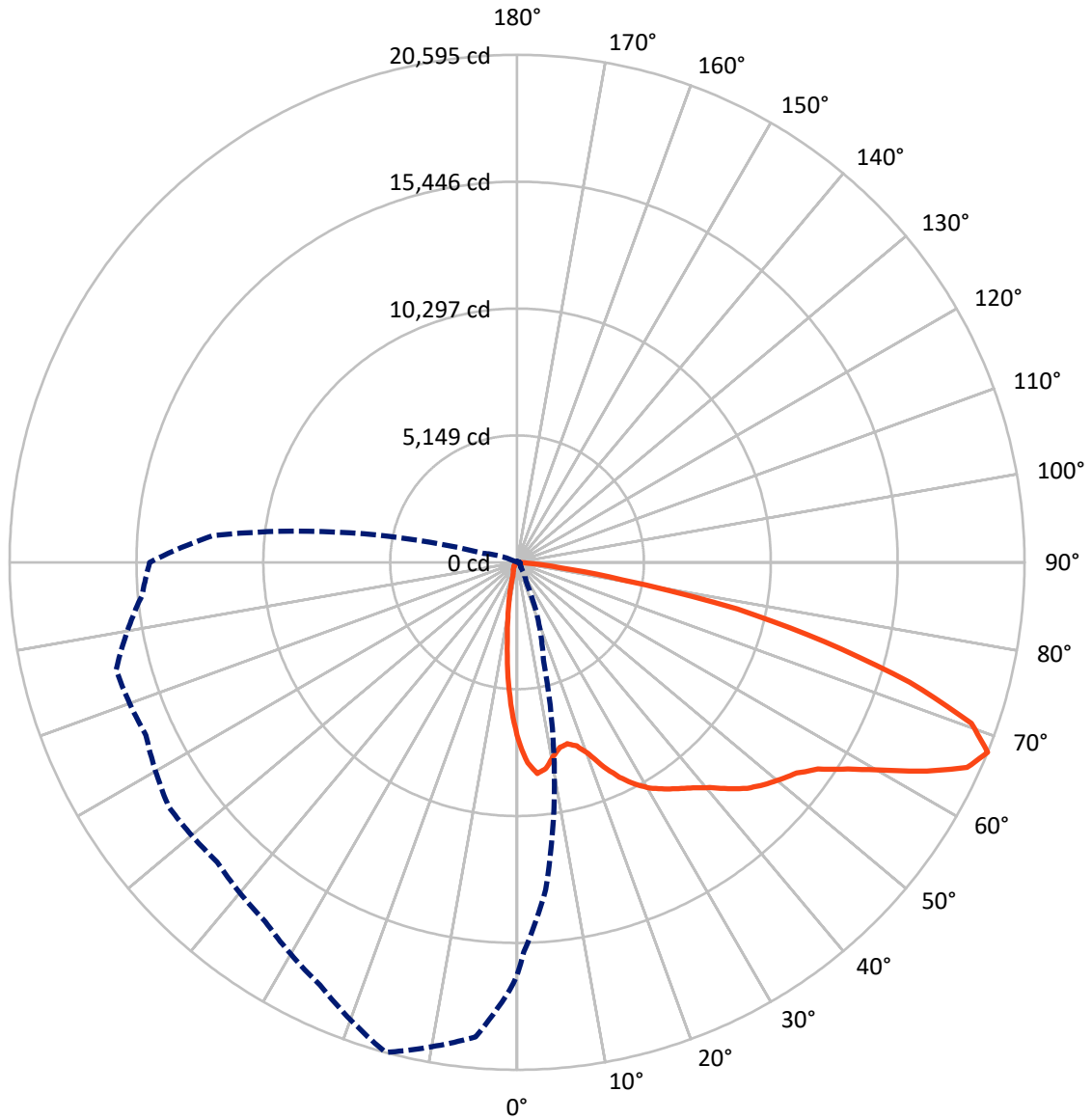
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 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	2693.1	0.0	2693.1
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	19557.9	0.0	19557.9
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	22251.0	0.0	22251.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	556.3	2.5
10°-20°	1107.3	5.0
20°-30°	1572.4	7.1
30°-40°	2322.5	10.4
40°-50°	3349.5	15.1
50°-60°	4702.0	21.1
60°-70°	5481.2	24.6
70°-80°	2802.1	12.6
80°-90°	357.9	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°	22251.0	100.0
0°-180°	22251.0	100.0

**Coefficient of Utilization**

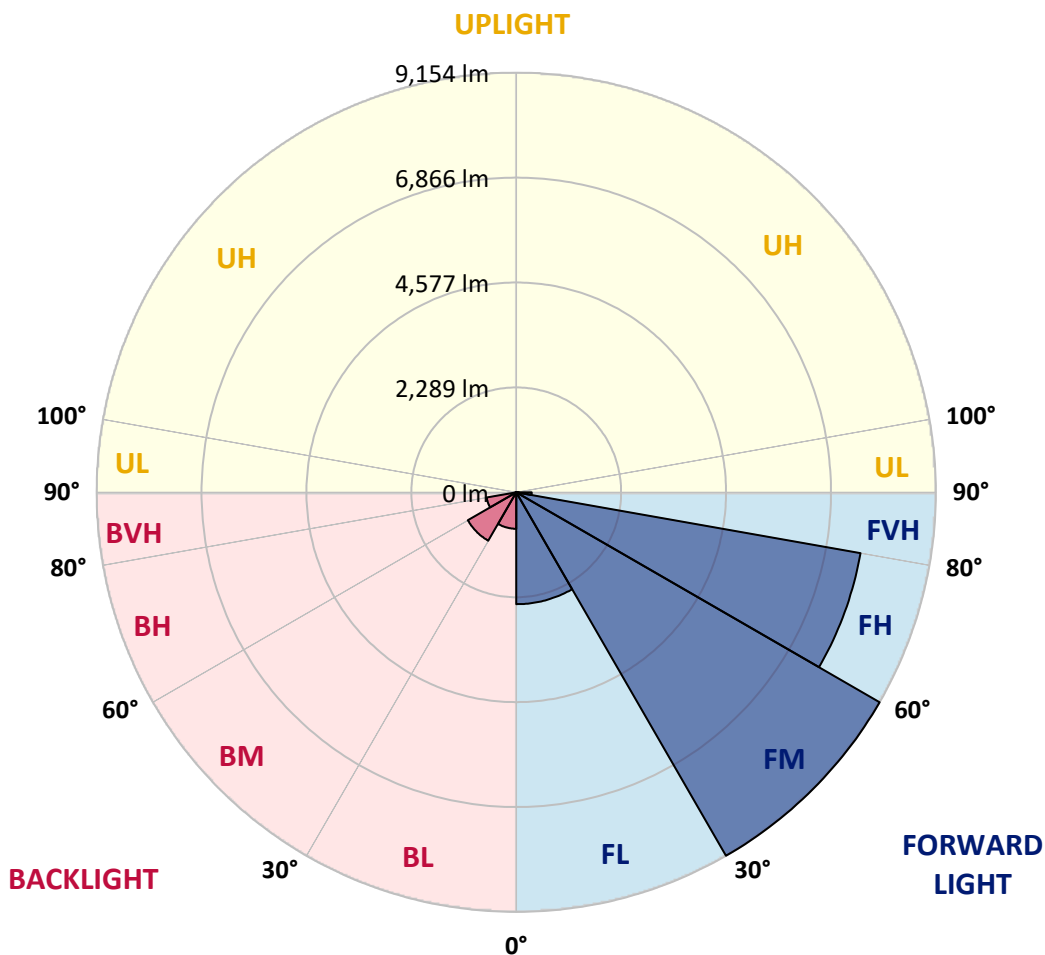


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2440.5	11.0			
FM (30°-60°)	9154.4	41.1			
FH (60°-80°)	7626.9	34.3			G4/12000
FVH (80°-90°)	336.1	1.5			G3/500
BL (0°-30°)	795.4	3.6	B2/1000		
BM (30°-60°)	1219.5	5.5	B2/2500		
BH (60°-80°)	656.4	2.9	B2/1000		G2/1000
BVH (80°-90°)	21.7	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°	7248.2	7248.2	7248.2	7248.2	7248.2	7248.2	7248.2	7248.2	7248.2	7248.2	7248.2
2.5°	7936.6	7875.4	7808.0	7587.7	7383.2	7149.1	6958.3	6825.5	6659.0	6442.9	6388.0
5°	7879.6	7814.3	7602.4	7112.2	6683.2	6265.8	5863.1	5627.0	5333.9	5036.6	4962.9
7.5°	7307.3	7238.7	6933.0	6261.6	5683.9	5080.9	4558.1	4234.5	3903.5	3631.5	3487.1
10°	6711.7	6636.8	6293.2	5478.3	4766.8	4221.8	3838.1	3529.2	3216.2	2925.2	2693.3
12.5°	6301.6	6203.6	5830.4	4907.0	4287.2	3917.2	3558.8	3188.8	2765.0	2453.0	2197.9
15°	6129.8	6018.0	5623.8	4686.7	4117.4	3683.1	3216.2	2761.8	2265.3	1908.0	1674.0
17.5°	6262.6	6117.1	5694.4	4671.9	3904.5	3313.1	2722.8	2189.4	1650.8	1289.2	1122.7
20°	6713.8	6523.0	5986.4	4667.7	3646.2	2873.6	2125.1	1522.2	1087.9	874.9	787.4
22.5°	7424.3	7172.3	6406.0	4701.4	3379.6	2411.9	1534.8	1034.1	817.0	706.3	654.6
25°	8282.3	7990.3	7010.0	4820.6	3145.5	1962.8	1115.3	817.0	689.4	608.2	565.0
27.5°	9098.2	8861.0	7773.2	4992.4	2964.2	1600.2	905.5	692.6	589.3	535.5	500.7
30°	9913.1	9614.8	8556.4	5196.9	2746.0	1354.6	795.9	631.4	528.1	471.2	449.1
32.5°	10505.5	10257.8	9169.9	5344.5	2513.1	1194.3	711.5	577.7	493.3	435.4	402.7
35°	11202.3	10921.9	9695.9	5377.1	2363.4	1093.1	639.9	519.7	428.0	376.3	341.5
37.5°	11954.9	11606.0	10303.1	5305.5	2246.4	1043.6	586.1	493.3	399.5	346.8	309.9
40°	12787.7	12393.4	10886.0	5202.1	2131.5	1026.7	545.0	473.3	377.4	323.6	285.7
42.5°	13664.7	13199.9	11391.0	5093.6	2058.7	968.7	540.8	453.3	360.5	302.5	264.6
45°	14401.6	13930.4	11909.6	5057.7	2007.1	905.5	558.7	439.6	348.9	285.7	248.8
47.5°	14988.7	14542.8	12440.9	5137.8	1977.6	847.5	509.1	457.5	342.6	270.9	235.1
50°	15689.7	15184.8	13189.3	5377.1	1934.3	789.5	460.7	523.9	342.6	261.4	223.5
52.5°	16568.9	16069.2	14024.2	5748.2	1847.9	709.4	414.3	525.0	345.8	248.8	208.7
55°	17674.7	17312.0	15216.4	6155.1	1709.8	591.4	358.4	451.2	333.1	225.6	195.0
57.5°	18735.1	18438.9	16303.2	6433.4	1525.3	461.7	312.0	363.7	304.6	198.2	173.9
59°	19025.0	18701.4	16701.7	6446.0	1387.2	402.7	288.8	300.4	298.3	185.5	161.3
60°	19025.0	18681.4	16816.6	6378.6	1287.1	370.0	274.1	267.7	311.0	177.1	153.9
62.5°	18680.3	18197.5	16443.4	5922.1	1049.9	315.2	239.3	221.4	279.3	159.2	136.0
65°	17963.5	17260.4	15172.1	5096.7	936.1	288.8	206.6	181.3	194.0	140.2	119.1
67.5°	16768.1	15815.2	13339.0	4117.4	890.7	281.5	178.1	153.9	146.5	120.2	104.4
70°	14663.0	13605.7	11113.7	3237.2	851.7	278.3	149.7	129.7	118.1	101.2	88.5
72.5°	10672.0	9569.4	7890.2	2531.0	828.5	284.6	120.2	108.6	97.0	79.1	68.5
75°	6104.5	5382.4	4434.7	1671.9	706.3	272.0	92.8	90.7	69.6	56.9	47.4
77.5°	3154.0	3058.0	2657.5	642.0	338.4	119.1	61.1	52.7	41.1	34.8	28.5
80°	1360.9	1346.1	1164.8	185.5	89.6	66.4	34.8	22.1	19.0	14.8	11.6
82.5°	470.1	470.1	414.3	62.2	40.1	32.7	4.2	0.0	0.0	0.0	0.0
85°	94.9	106.5	74.8	0.0	13.7	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°	7248.2	7248.2	7248.2	7248.2	7248.2	7248.2	7248.2	7248.2	7248.2	7248.2	7248.2
2.5°	6321.6	6194.1	6185.7	6105.5	6005.4	5960.1	5933.7	5980.1	6037.0	6043.3	6128.7
5°	4907.0	4773.1	4829.0	4686.7	4715.1	4686.7	4640.3	4648.7	4674.0	4595.0	4693.0
7.5°	3446.0	3344.8	3409.1	3371.1	3421.7	3441.7	3413.3	3371.1	3246.7	3232.0	3317.4
10°	2597.4	2482.5	2414.0	2342.3	2358.1	2390.8	2380.2	2349.7	2270.6	2274.8	2357.0
12.5°	2087.2	1958.6	1822.6	1646.6	1603.3	1627.6	1603.3	1585.4	1509.5	1515.8	1588.6
15°	1583.3	1477.9	1335.6	1194.3	1117.4	1124.8	1057.3	1009.9	962.4	905.5	949.8
17.5°	1068.9	1004.6	962.4	920.3	828.5	807.5	722.1	630.4	594.5	568.2	587.2
20°	756.9	722.1	705.2	703.1	650.4	624.0	540.8	483.8	465.9	460.7	472.3
22.5°	632.5	607.2	582.9	569.2	542.9	512.3	449.1	420.6	407.9	401.6	410.1
25°	550.3	531.3	506.0	482.8	472.3	439.6	394.2	373.2	364.7	358.4	362.6
27.5°	489.1	472.3	442.7	428.0	419.5	391.1	352.1	335.2	327.8	325.7	324.7
30°	440.6	424.8	397.4	380.5	365.8	340.5	317.3	300.4	293.0	290.9	288.8
32.5°	392.1	379.5	361.6	344.7	328.9	305.7	285.7	272.0	260.4	258.3	257.2
35°	331.0	318.3	308.9	307.8	293.0	270.9	256.2	238.2	228.7	225.6	226.6
37.5°	294.1	277.2	256.2	263.5	259.3	243.5	223.5	205.6	196.1	194.0	194.0
40°	270.9	253.0	228.7	216.1	228.7	225.6	194.0	176.0	166.6	165.5	163.4
42.5°	248.8	230.9	203.4	182.4	188.7	198.2	167.6	150.7	141.3	139.1	136.0
45°	233.0	214.0	183.4	159.2	146.5	166.6	143.4	122.3	117.0	112.8	110.7
47.5°	218.2	200.3	165.5	138.1	117.0	120.2	114.9	100.1	93.8	89.6	88.5
50°	205.6	186.6	149.7	118.1	97.0	88.5	92.8	79.1	73.8	69.6	67.5
52.5°	190.8	172.9	132.8	102.3	81.2	69.6	70.6	62.2	56.9	53.8	52.7
55°	179.2	161.3	119.1	89.6	71.7	56.9	50.6	48.5	45.3	43.2	42.2
57.5°	163.4	146.5	105.4	75.9	61.1	46.4	39.0	39.0	37.9	35.8	34.8
59°	153.9	139.1	97.0	68.5	55.9	40.1	34.8	35.8	34.8	32.7	31.6
60°	146.5	132.8	90.7	63.2	52.7	36.9	31.6	33.7	32.7	30.6	29.5
62.5°	129.7	120.2	78.0	52.7	46.4	29.5	26.4	28.5	28.5	27.4	26.4
65°	113.8	103.3	66.4	44.3	43.2	25.3	21.1	25.3	26.4	24.2	22.1
67.5°	99.1	88.5	58.0	35.8	40.1	20.0	15.8	21.1	28.5	22.1	20.0
70°	84.3	73.8	45.3	28.5	42.2	13.7	12.6	19.0	33.7	24.2	19.0
72.5°	65.4	56.9	31.6	21.1	45.3	9.5	9.5	15.8	37.9	26.4	17.9
75°	45.3	36.9	19.0	12.6	36.9	6.3	6.3	14.8	35.8	24.2	16.9
77.5°	26.4	20.0	6.3	1.1	19.0	0.0	1.1	10.5	25.3	14.8	7.4
80°	9.5	4.2	0.0	0.0	11.6	0.0	0.0	0.0	2.1	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°	7248.2	7248.2	7248.2	7248.2	7248.2	7248.2	7248.2	7248.2	7248.2	7248.2	7248.2
2.5°	6150.9	6293.2	6420.7	6613.6	6842.4	7105.9	7332.6	7576.1	7804.8	7899.7	7965.0
5°	4713.0	4889.1	5094.6	5378.2	5755.6	6220.4	6655.8	7148.1	7677.3	7941.8	8190.6
7.5°	3332.1	3511.3	3766.4	4067.9	4524.3	5077.8	5647.0	6326.9	7043.7	7462.2	7874.4
10°	2396.0	2616.4	2854.6	3266.8	3730.6	4255.5	4841.6	5600.6	6399.6	6863.5	7360.0
12.5°	1630.7	1881.6	2242.1	2703.9	3248.8	3763.3	4272.4	4996.6	5924.2	6383.8	6916.2
15°	978.2	1117.4	1499.0	2033.4	2701.7	3342.7	3900.3	4626.6	5615.4	6178.3	6731.7
17.5°	603.0	667.3	874.9	1313.5	2015.5	2826.1	3590.4	4501.2	5659.6	6344.8	6937.3
20°	480.7	506.0	572.4	775.8	1335.6	2256.9	3241.5	4475.9	6021.2	6864.5	7500.2
22.5°	417.4	441.7	486.0	564.0	840.1	1689.8	2910.5	4499.0	6539.8	7643.5	8385.6
25°	367.9	389.0	431.1	495.4	615.6	1190.1	2556.3	4602.3	7215.5	8610.2	9398.7
27.5°	328.9	346.8	385.8	444.8	528.1	830.7	2154.6	4727.8	8016.7	9598.9	10376.9
30°	293.0	308.9	343.6	398.5	458.5	638.8	1714.0	4813.2	8818.9	10376.9	11075.8
32.5°	262.5	274.1	305.7	352.1	398.5	509.1	1302.9	4799.5	9414.5	11024.1	11578.6
35°	230.9	242.5	269.9	309.9	346.8	420.6	1024.6	4543.3	9933.1	11695.6	12154.2
37.5°	196.1	210.8	237.2	273.0	298.3	370.0	828.5	4234.5	10459.1	12463.0	12796.1
40°	166.6	181.3	204.5	243.5	259.3	351.0	636.7	3858.1	11050.5	13321.1	13500.3
42.5°	138.1	151.8	176.0	209.8	244.6	302.5	471.2	3428.0	11618.7	14054.8	14142.3
45°	111.7	125.4	150.7	184.5	261.4	250.9	364.7	2967.4	12077.2	14665.1	14693.6
47.5°	88.5	101.2	127.6	173.9	243.5	200.3	260.4	2605.8	12462.0	15141.6	15066.7
50°	68.5	79.1	106.5	199.2	212.9	165.5	197.1	2485.6	12806.7	15436.7	15242.8
52.5°	53.8	63.2	87.5	186.6	165.5	137.0	165.5	2598.4	13278.9	15681.3	15341.9
55°	43.2	52.7	68.5	106.5	112.8	116.0	141.3	2703.9	14093.8	16254.7	15926.9
57.5°	35.8	45.3	55.9	74.8	85.4	98.0	125.4	2715.4	15054.1	17207.7	16897.8
59°	32.7	41.1	50.6	66.4	74.8	89.6	118.1	2652.2	15392.5	17554.5	17399.5
60°	30.6	39.0	47.4	61.1	69.6	84.3	113.8	2592.1	15407.2	17541.8	17613.5
62.5°	26.4	34.8	42.2	51.7	59.0	71.7	102.3	2369.7	14783.2	16967.3	17484.9
65°	23.2	30.6	37.9	44.3	50.6	64.3	92.8	1963.9	13717.4	16040.7	16604.7
67.5°	21.1	26.4	34.8	39.0	45.3	56.9	82.2	1399.9	12386.1	14907.6	15273.3
70°	19.0	25.3	31.6	35.8	41.1	49.5	70.6	804.3	10459.1	13248.3	13508.7
72.5°	17.9	24.2	28.5	33.7	36.9	44.3	64.3	378.4	7658.3	10613.0	11292.9
75°	15.8	22.1	26.4	31.6	34.8	40.1	54.8	181.3	5093.6	7680.4	8453.1
77.5°	9.5	17.9	24.2	28.5	30.6	34.8	45.3	104.4	3250.9	5316.0	6261.6
80°	0.0	6.3	17.9	24.2	26.4	29.5	34.8	82.2	1739.3	3037.0	3645.2
82.5°	0.0	0.0	12.6	19.0	17.9	20.0	26.4	51.7	784.3	1984.9	2236.9
85°	0.0	0.0	4.2	14.8	12.6	9.5	17.9	17.9	171.8	1004.6	1253.4
87.5°	0.0	0.0	0.0	1.1	6.3	4.2	7.4	2.1	1.1	74.8	303.6
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°	7248.2	7248.2	7248.2	7248.2	7248.2	7248.2	7248.2	7248.2	7248.2	7248.2
2.5°	8193.8	8271.8	8403.6	8465.7	8435.2	8305.5	8150.6	7992.4	7899.7	7936.6
5°	8697.7	9099.3	9331.2	9408.1	9279.5	8988.6	8608.1	8106.3	7928.1	7879.6
7.5°	8697.7	9453.5	9932.0	10016.4	9729.7	9159.4	8445.7	7662.5	7402.1	7307.3
10°	8392.0	9420.8	10088.1	10221.9	9821.4	8968.6	8012.5	7118.6	6809.7	6711.7
12.5°	8047.3	9155.1	9858.3	10042.7	9713.8	8778.8	7712.0	6750.7	6387.0	6301.6
15°	7835.4	8828.4	9410.2	9544.1	9405.0	8668.1	7640.4	6640.0	6212.0	6129.8
17.5°	7911.3	8575.4	8785.1	8863.2	8957.0	8629.1	7835.4	6882.4	6340.6	6262.6
20°	8196.9	8308.7	8200.1	8298.1	8551.1	8667.1	8300.2	7468.5	6818.1	6713.8
22.5°	8681.8	8170.6	7865.9	7904.9	8212.8	8792.5	9010.7	8305.5	7555.0	7424.3
25°	9246.9	8282.3	7680.4	7645.6	7961.9	8958.0	9660.1	9216.3	8426.7	8282.3
27.5°	9957.3	8533.2	7642.5	7607.7	7874.4	9113.0	10199.8	10116.5	9344.9	9098.2
30°	10505.5	8779.9	7755.3	7675.1	7961.9	9220.5	10633.0	10880.8	10076.5	9913.1
32.5°	10898.7	9070.8	7938.7	7822.7	8208.5	9406.0	10967.2	11580.7	10753.2	10505.5
35°	11198.1	9387.1	8234.9	8044.1	8548.0	9687.5	11280.3	12326.0	11473.2	11202.3
37.5°	11478.5	9830.8	8697.7	8470.0	9080.3	10140.8	11611.3	13171.4	12278.5	11954.9
40°	11869.5	10333.7	9411.3	9208.9	9975.3	10758.5	12024.5	14052.7	13194.6	12787.7
42.5°	12260.6	10873.4	10141.8	10196.6	11091.6	11509.0	12557.9	14984.5	14099.0	13664.7
45°	12618.0	11430.0	11182.2	11435.2	12127.8	12332.3	13088.1	15523.2	14821.1	14401.6
47.5°	12936.3	12125.7	12216.4	12889.9	13306.3	13077.6	13484.5	15988.0	15358.7	14988.7
50°	13306.3	13025.9	13579.3	14532.3	14663.0	13752.2	13845.0	16538.3	15987.0	15689.7
52.5°	13711.1	13974.6	15088.9	15929.0	15886.8	14484.8	14207.6	17155.0	16848.2	16568.9
55°	14170.7	14741.0	16418.1	17236.1	17200.3	15302.9	14808.5	17917.1	17927.6	17674.7
57.5°	14852.7	15400.9	17320.5	18293.4	18353.5	16247.4	15826.8	18771.0	18903.8	18735.1
59°	15341.9	15828.9	17677.8	18735.1	18979.7	16977.9	16571.0	19266.4	19178.9	19025.0
60°	15704.5	16100.8	17854.9	18966.0	19343.3	17473.3	17120.2	19557.3	19211.6	19025.0
62.5°	16601.5	16693.3	18174.3	19227.4	19761.8	18573.8	18665.5	20052.8	18984.9	18680.3
65°	17020.0	17067.5	18170.1	18759.4	19357.1	19430.8	20067.5	20067.5	18431.5	17963.5
67.5°	16845.1	16616.3	17268.8	17207.7	17804.3	18921.7	20594.6	19331.8	17373.2	16768.1
70°	15422.0	14541.8	14251.9	14278.2	14734.7	16458.2	19551.0	17166.6	15370.3	14663.0
72.5°	12832.0	10720.5	10004.8	10821.7	10940.9	12648.5	16661.6	12927.9	11335.1	10672.0
75°	10321.0	7557.1	6393.3	7255.6	7458.0	9256.3	12888.9	8051.5	6621.0	6104.5
77.5°	7414.8	5424.6	4587.6	4527.5	4788.9	5870.5	9145.7	4052.1	3379.6	3154.0
80°	4212.3	3570.4	3844.4	3627.3	3759.0	3670.5	4345.1	1777.3	1455.8	1360.9
82.5°	2542.6	2110.4	2285.4	1902.7	2407.6	2096.7	1674.0	569.2	494.4	470.1
85°	1653.9	1153.2	600.9	402.7	829.6	1339.8	374.2	155.0	119.1	94.9
87.5°	570.3	294.1	29.5	12.6	88.5	249.8	13.7	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)