

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: P322894

Luminaire Tested: **GAN-SA0C-740-U-T4W-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322894  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA0C-740-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 50743 lumens  
Efficiency: N/A  
Efficacy: 90.9 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

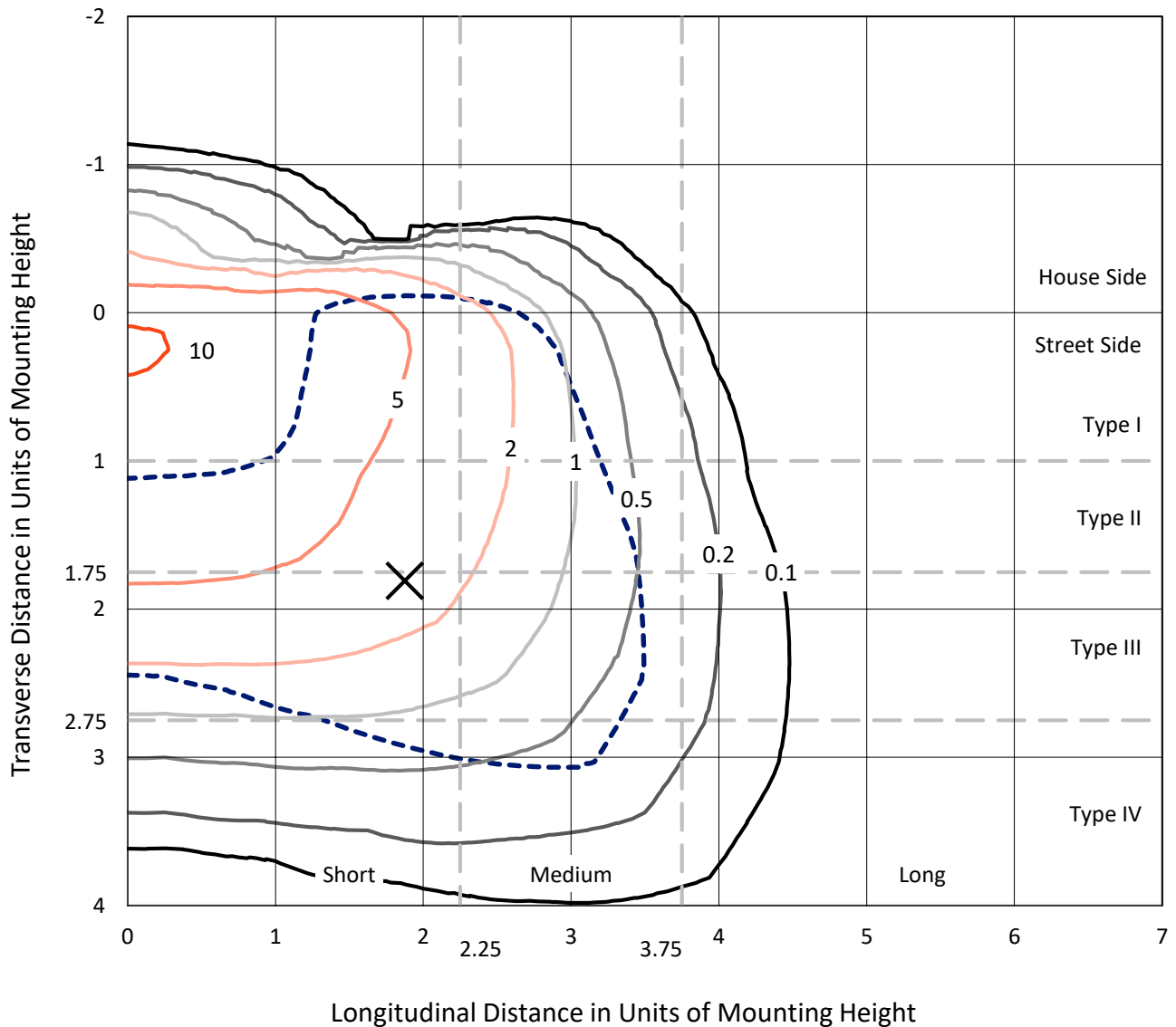
Input Watts (W): 558  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

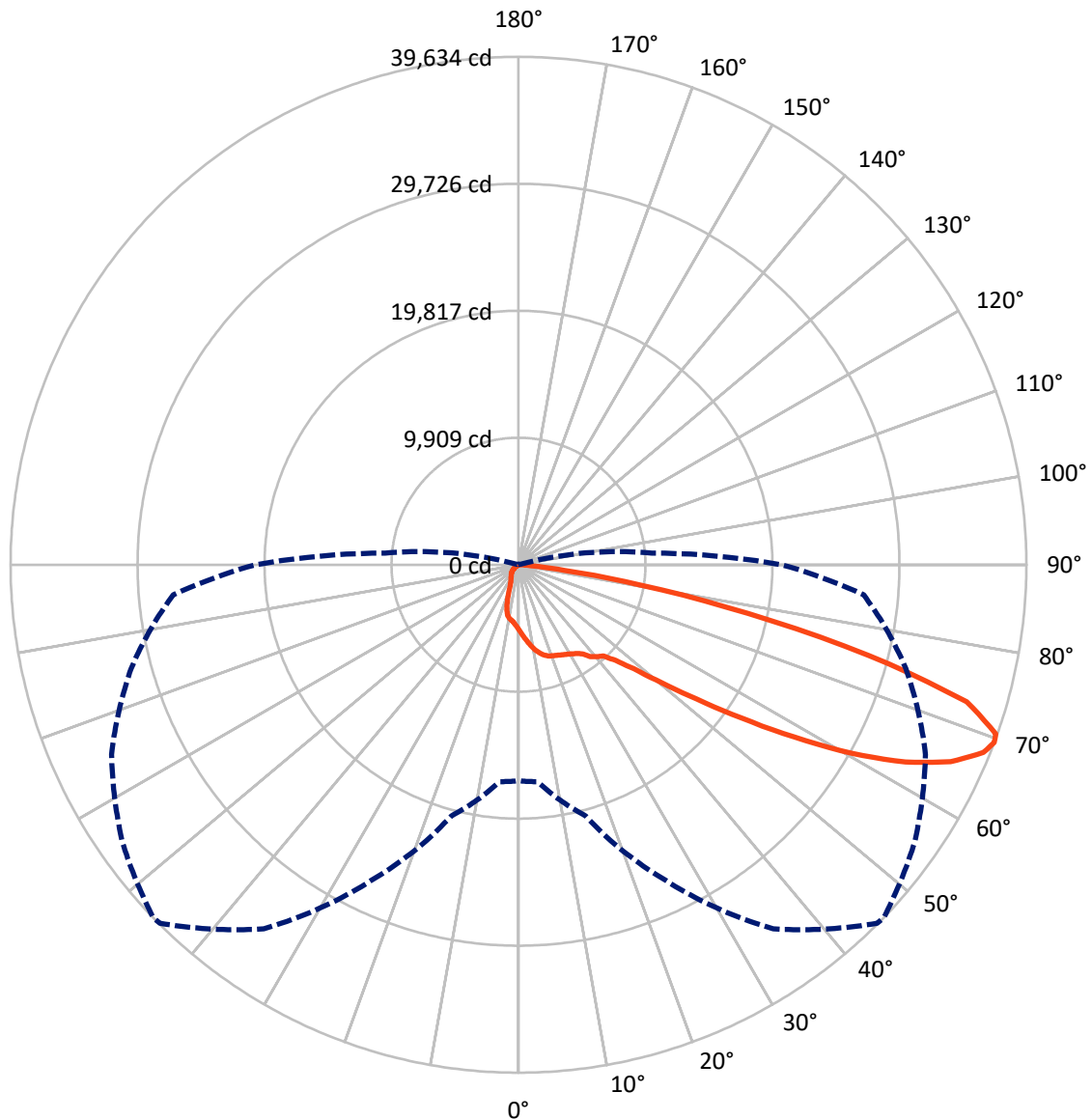
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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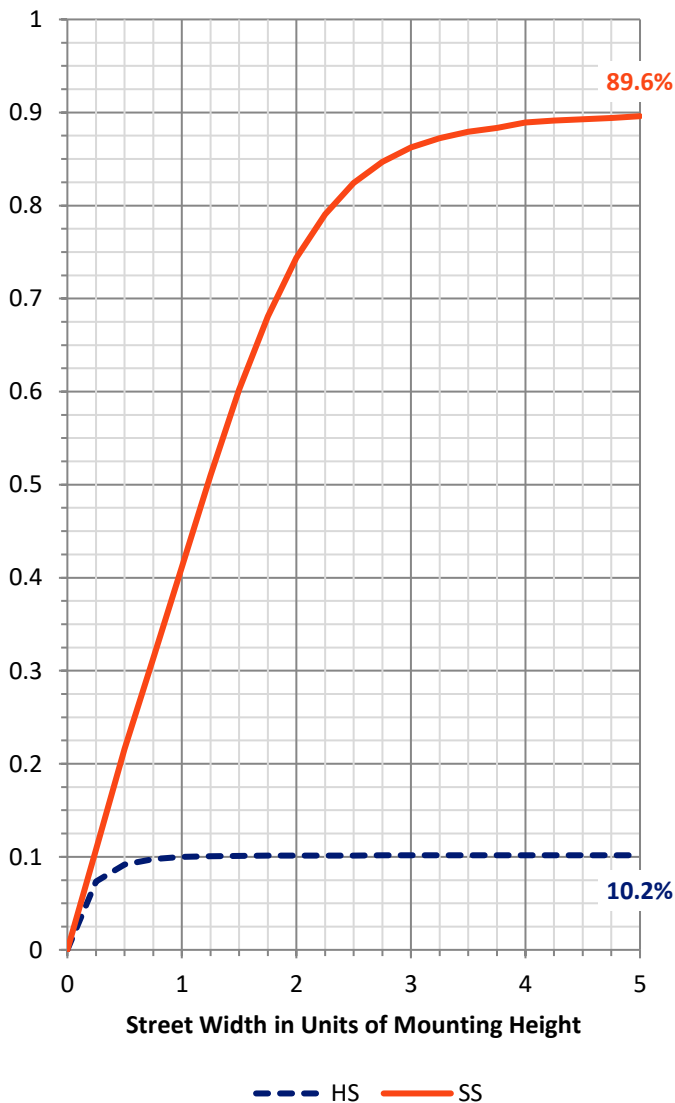
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5207.6	0.0	5207.6
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	45535.4	0.0	45535.4
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	50743.0	0.0	50743.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	506.1	1.0
10°-20°	1535.3	3.0
20°-30°	2414.5	4.8
30°-40°	3462.3	6.8
40°-50°	5984.2	11.8
50°-60°	11822.4	23.3
60°-70°	16522.9	32.6
70°-80°	7982.3	15.7
80°-90°	513.1	1.0
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°	50743.0	100.0
0°-180°	50743.0	100.0



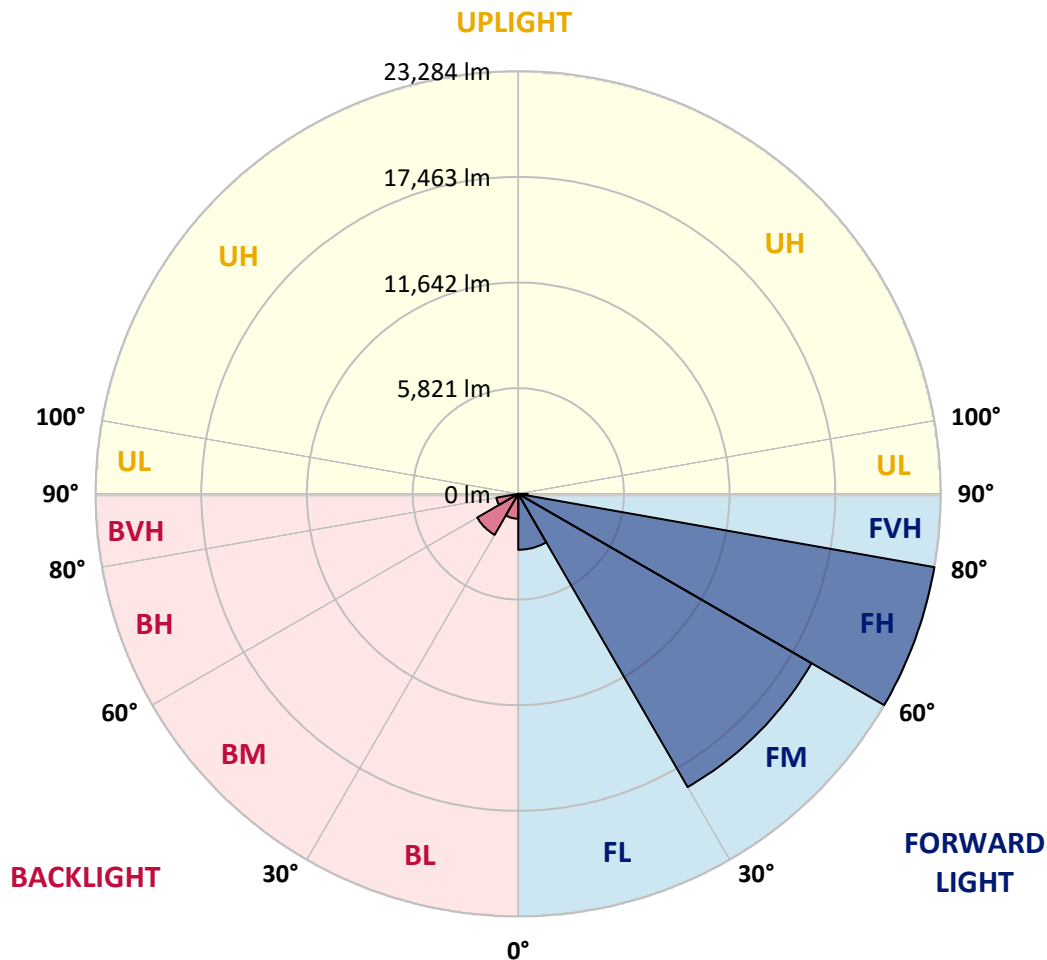
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3083.2	6.1			
FM (30°-60°)	18659.3	36.8			
FH (60°-80°)	23284.1	45.9			G5
FVH (80°-90°)	508.7	1.0			G4/750
BL (0°-30°)	1372.5	2.7	B3/2500		
BM (30°-60°)	2609.7	5.1	B3/5000		
BH (60°-80°)	1221.1	2.4	B3/2500		G3/2500
BVH (80°-90°)	4.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	5084.3	5084.3	5084.3	5084.3	5084.3	5084.3	5084.3	5084.3	5084.3	5084.3	5084.3
2.5°	5648.1	5641.0	5607.7	5593.4	5512.5	5464.9	5445.9	5386.4	5300.8	5215.1	5119.9
5°	6290.5	6288.1	6226.3	6166.8	6014.5	5871.8	5845.6	5707.6	5514.9	5334.1	5153.3
7.5°	6947.1	6916.2	6854.4	6740.2	6518.9	6290.5	6269.1	6074.0	5800.4	5538.7	5279.3
10°	7503.9	7484.8	7403.9	7230.3	6970.9	6711.6	6685.4	6445.1	6135.8	5814.7	5484.0
12.5°	7936.9	7922.6	7815.5	7599.0	7323.0	7054.2	7018.5	6804.4	6473.7	6114.4	5724.3
15°	8201.0	8193.8	8063.0	7832.2	7561.0	7327.8	7296.9	7108.9	6802.0	6426.1	5986.0
17.5°	8262.8	8265.2	8129.6	7896.4	7672.8	7506.2	7482.4	7339.7	7082.8	6709.2	6247.7
20°	8124.8	8153.4	8032.0	7829.8	7691.8	7603.8	7584.8	7499.1	7282.6	6930.5	6457.0
22.5°	7929.7	7944.0	7860.7	7725.1	7668.0	7684.7	7675.2	7627.6	7444.4	7120.8	6664.0
25°	7810.8	7810.8	7760.8	7646.6	7684.7	7787.0	7789.4	7779.8	7634.7	7354.0	6916.2
27.5°	7806.0	7791.7	7734.6	7649.0	7753.7	7910.7	7920.2	7984.5	7894.0	7637.1	7230.3
30°	7996.3	7979.7	7858.4	7746.5	7879.8	8048.7	8072.5	8212.9	8167.6	7944.0	7580.0
32.5°	8441.2	8381.8	8112.9	7929.7	8029.7	8231.9	8262.8	8486.5	8557.8	8322.3	7917.8
35°	9050.3	8862.4	8474.6	8277.1	8286.6	8498.3	8526.9	8855.2	9067.0	8669.6	8179.5
37.5°	9890.2	9797.4	9166.9	8638.7	8681.5	9002.7	9086.0	9442.9	9383.4	8860.0	8476.9
40°	11731.6	11586.5	10915.6	9652.2	9059.8	9411.9	9438.1	9628.4	9633.2	9290.6	9095.5
42.5°	14239.3	14179.8	13473.2	11491.3	9804.5	9685.5	9733.1	10054.3	10413.6	10199.4	10189.9
45°	17015.7	16984.8	16235.4	13932.3	11310.5	10582.5	10642.0	11072.6	11760.2	11807.8	12109.9
47.5°	19249.8	19235.5	18804.9	16656.5	13615.9	12102.8	12121.8	12578.6	13787.2	14384.4	14867.4
50°	21286.3	21355.3	21015.1	19604.3	16756.4	14484.3	14439.1	14743.6	16685.0	17662.9	18262.4
52.5°	24117.5	24215.1	23261.0	22354.6	20051.5	17439.2	17403.5	17722.3	20168.1	20900.9	21008.0
55°	26618.0	26451.5	25697.3	25435.6	24069.9	21088.8	21079.3	21360.1	23537.0	23848.7	24046.1
57.5°	27721.9	27657.7	28021.7	28621.3	28278.7	25402.3	25380.8	25166.7	26551.4	26584.7	27191.4
60°	28419.0	28497.5	29613.4	31462.0	32316.1	30044.0	29906.0	28599.8	29430.2	29356.4	30005.9
62.5°	27895.6	28050.3	30058.3	33139.3	35337.6	34095.7	33900.6	31745.1	31890.2	31635.7	32240.0
65°	25116.8	25357.1	28647.4	32822.9	36836.5	37262.4	37064.9	34521.6	33843.5	33424.8	33089.3
67.5°	20394.1	20536.9	23972.4	30070.2	36160.8	39151.4	39111.0	36955.4	35318.6	33122.6	30519.8
69°	16853.9	16994.3	20301.3	27172.4	34673.8	39555.9	39634.4	37735.8	35037.8	31285.9	27041.5
70°	14274.9	14424.8	17505.8	24688.5	32948.9	39367.9	39508.3	37662.1	34233.7	29159.0	23989.0
72.5°	7487.2	7615.7	10777.6	17008.6	26860.7	36148.9	36574.8	34478.7	29018.6	21176.9	14184.5
75°	2353.0	2426.7	4208.7	8890.9	18390.9	28107.4	28204.9	27046.3	20605.9	11648.4	5907.4
77.5°	896.9	875.5	1401.3	3276.1	9297.7	17698.6	18295.7	16901.5	10813.3	4118.3	1363.3
80°	483.0	485.3	728.0	1356.1	3978.0	9095.5	9599.9	8191.4	3842.3	1284.7	314.0
82.5°	209.4	218.9	409.2	718.5	1827.2	3354.6	3606.8	3002.5	1467.9	863.6	116.6
85°	45.2	50.0	197.5	390.2	744.7	942.1	987.4	973.1	935.0	670.9	45.2
87.5°	0.0	0.0	88.0	140.4	188.0	214.1	188.0	245.1	516.3	452.0	23.8
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5084.3	5084.3	5084.3	5084.3	5084.3	5084.3	5084.3	5084.3	5084.3	5084.3	5084.3
2.5°	5089.0	5046.2	4972.4	4891.5	4834.4	4775.0	4727.4	4706.0	4682.2	4665.5	4686.9
5°	5079.5	4996.2	4853.5	4715.5	4615.6	4534.7	4468.1	4441.9	4415.7	4396.7	4394.3
7.5°	5162.8	5046.2	4827.3	4625.1	4470.4	4361.0	4270.6	4232.5	4201.6	4187.3	4175.4
10°	5322.2	5172.3	4879.7	4615.6	4415.7	4230.1	4035.1	3885.2	3787.6	3742.4	3725.8
12.5°	5529.2	5341.2	4979.6	4665.5	4375.3	4018.4	3604.4	3247.5	3016.8	2940.6	2895.4
15°	5771.8	5538.7	5110.4	4729.8	4227.8	3575.9	2874.0	2407.7	2193.6	2150.8	2103.2
17.5°	6005.0	5748.0	5267.5	4741.7	3904.2	2857.4	2105.6	1789.1	1705.9	1734.4	1741.5
20°	6209.6	5955.0	5422.1	4637.0	3316.5	2143.6	1629.7	1551.2	1582.1	1636.9	1646.4
22.5°	6416.6	6154.9	5564.8	4361.0	2564.7	1627.3	1467.9	1487.0	1517.9	1572.6	1582.1
25°	6668.8	6397.6	5698.1	3854.2	1924.7	1384.7	1394.2	1422.7	1453.7	1503.6	1508.4
27.5°	6959.0	6704.5	5786.1	3195.2	1427.5	1272.8	1303.8	1346.6	1377.5	1425.1	1434.6
30°	7344.5	7108.9	5814.7	2512.4	1196.7	1172.9	1187.2	1239.5	1284.7	1327.6	1334.7
32.5°	7706.1	7508.6	5719.5	1896.2	1108.7	1080.1	1080.1	1111.1	1163.4	1203.9	1213.4
35°	8039.2	7910.7	5415.0	1387.0	1042.1	994.5	970.7	970.7	1004.0	1037.3	1046.8
37.5°	8479.3	8474.6	4922.5	1106.3	977.8	923.1	873.2	835.1	823.2	830.3	835.1
40°	9233.5	9240.6	4280.1	992.1	923.1	849.4	773.2	704.2	640.0	618.6	616.2
42.5°	10411.2	10304.1	3606.8	937.4	875.5	773.2	659.0	566.2	466.3	435.4	433.0
45°	12281.2	11646.0	2893.1	887.4	825.6	687.6	544.8	418.7	337.8	314.0	314.0
47.5°	15005.3	13408.9	2241.2	832.7	759.0	590.0	411.6	302.2	247.4	235.5	237.9
50°	17822.3	15136.2	1717.8	763.7	678.1	487.7	304.5	218.9	188.0	188.0	190.3
52.5°	20320.4	16401.9	1339.5	690.0	578.1	383.0	230.8	171.3	157.0	154.6	157.0
55°	22659.1	17218.0	1025.4	604.3	459.2	285.5	176.1	140.4	130.9	126.1	123.7
57.5°	24914.5	17622.4	768.5	487.7	333.1	207.0	140.4	119.0	109.4	102.3	99.9
60°	26415.8	17294.1	528.2	359.3	230.8	149.9	116.6	102.3	90.4	83.3	80.9
62.5°	27262.8	16397.2	340.2	259.3	164.2	111.8	92.8	85.6	69.0	61.9	61.9
65°	26920.2	14917.3	237.9	185.6	119.0	83.3	69.0	69.0	50.0	40.4	38.1
67.5°	23855.8	12602.4	180.8	138.0	85.6	61.9	52.3	59.5	30.9	19.0	19.0
69°	20525.0	10444.5	154.6	114.2	71.4	50.0	45.2	54.7	21.4	14.3	11.9
70°	17838.9	9009.9	140.4	99.9	59.5	42.8	40.4	52.3	21.4	11.9	9.5
72.5°	10672.9	5024.8	107.1	71.4	38.1	33.3	33.3	59.5	21.4	11.9	9.5
75°	4313.4	1770.1	78.5	50.0	28.5	28.5	40.4	76.1	19.0	9.5	7.1
77.5°	977.8	387.8	45.2	30.9	19.0	28.5	47.6	59.5	11.9	4.8	0.0
80°	237.9	95.2	28.5	19.0	11.9	21.4	35.7	33.3	2.4	0.0	0.0
82.5°	78.5	33.3	11.9	9.5	2.4	7.1	16.7	9.5	0.0	0.0	0.0
85°	33.3	19.0	4.8	2.4	0.0	0.0	2.4	0.0	0.0	0.0	0.0
87.5°	21.4	7.1	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

(END OF REPORT)