

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: P319361

Luminaire Tested: **GAN-SA7B-740-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319361  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA7B-740-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39598 lumens  
Efficiency: N/A  
Efficacy: 134.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

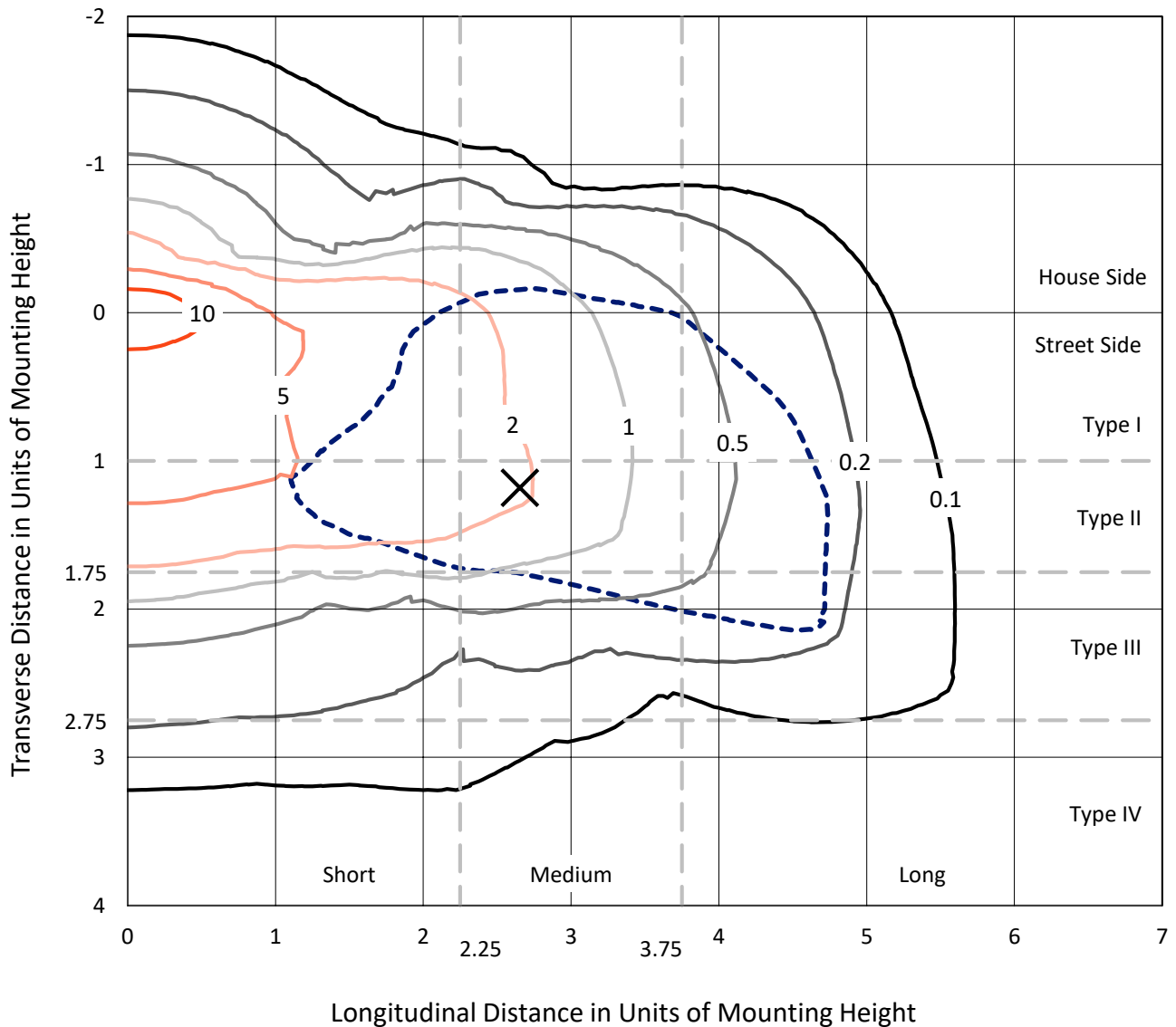
Input Watts (W): 295  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

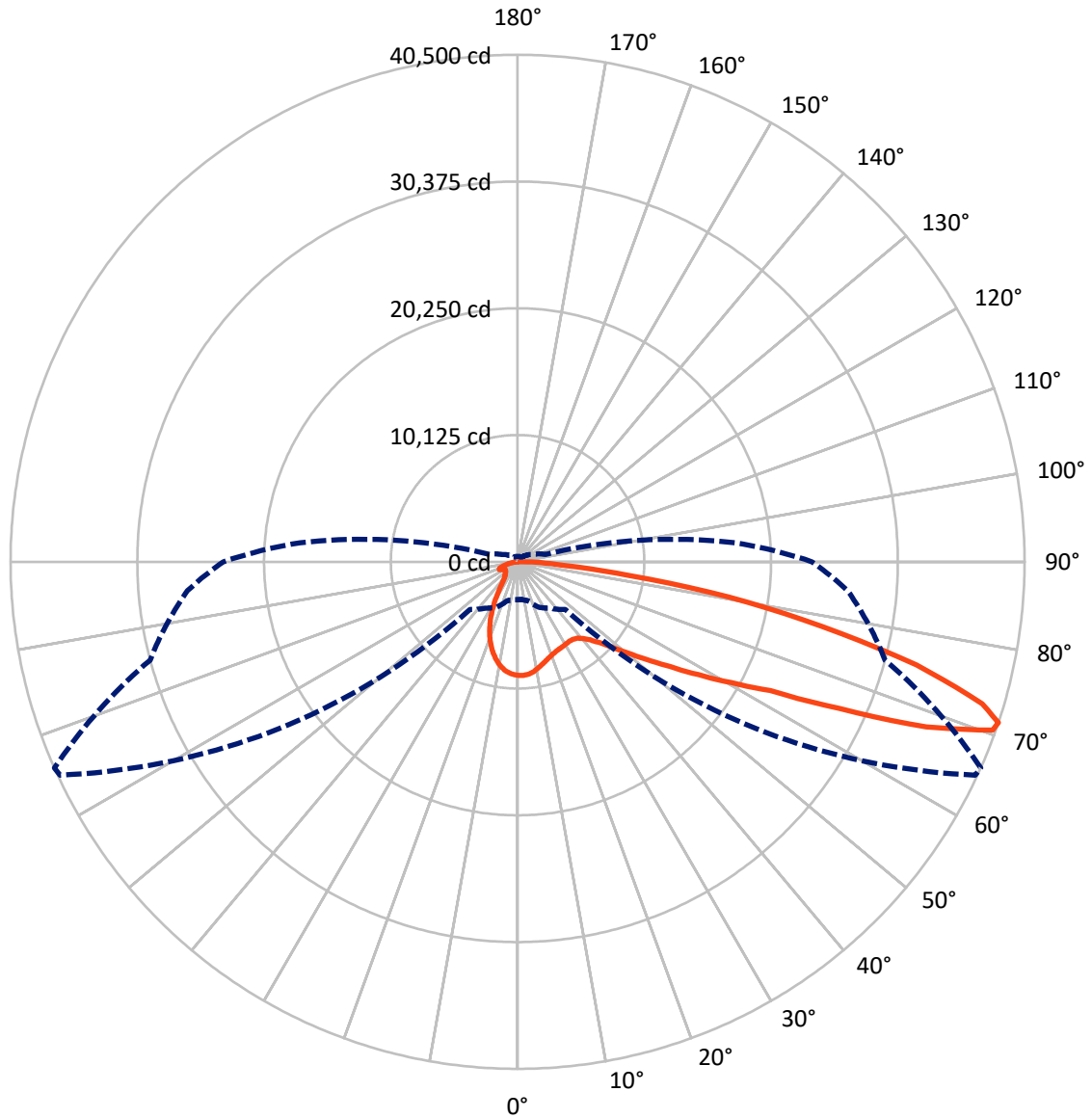
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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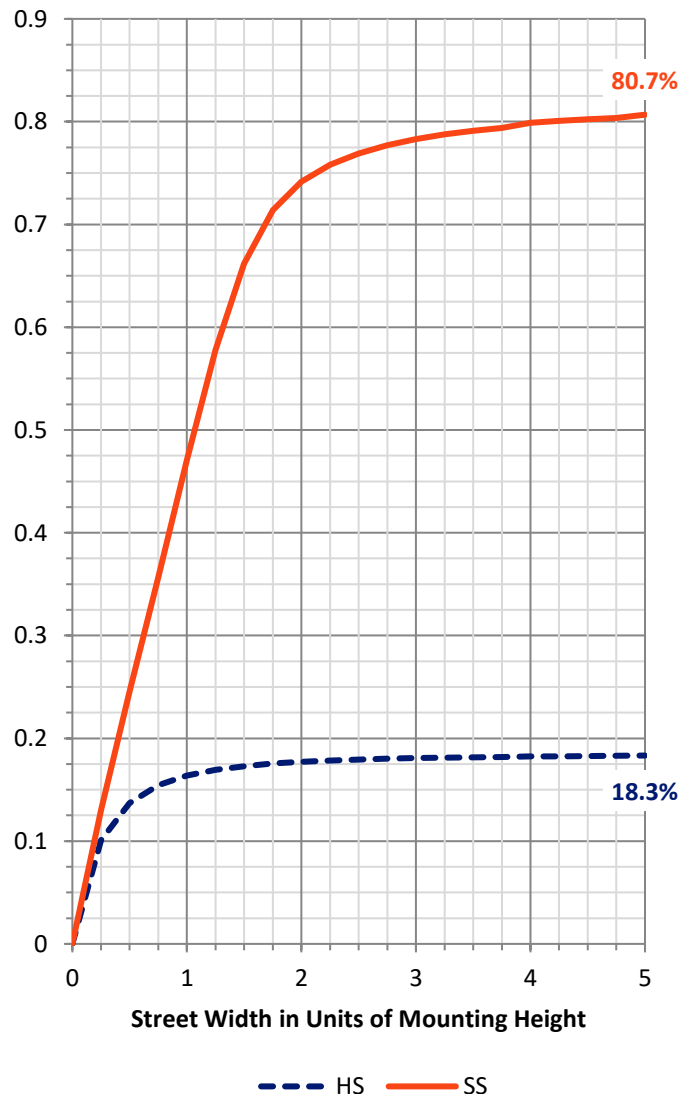
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7338.6	0.0	7338.6
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	32259.4	0.0	32259.4
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	39598.0	0.0	39598.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	798.5	2.0
10°-20°	1915.1	4.8
20°-30°	2572.4	6.5
30°-40°	3384.0	8.5
40°-50°	4922.8	12.4
50°-60°	7690.0	19.4
60°-70°	9633.0	24.3
70°-80°	7347.8	18.6
80°-90°	1334.3	3.4
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°	39598.0	100.0
0°-180°	39598.0	100.0

**Coefficient of Utilization**

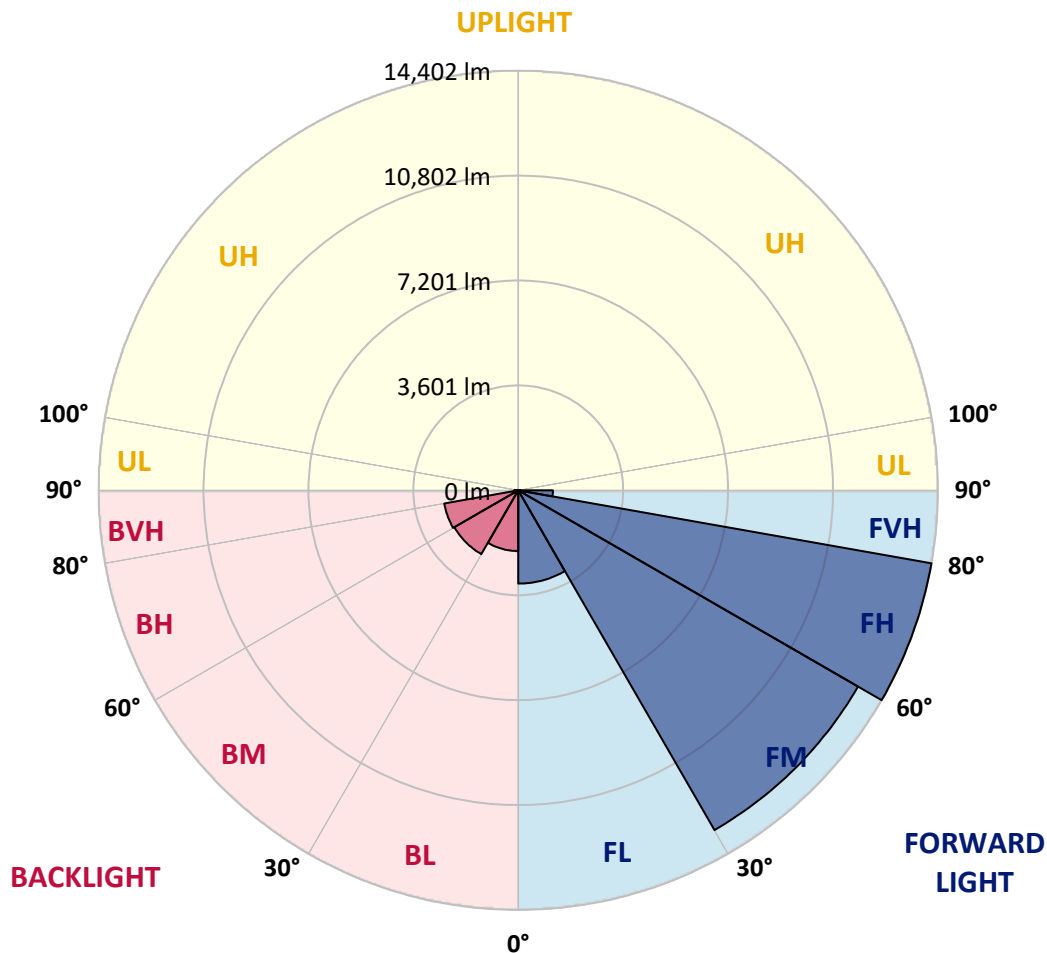


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3202.0	8.1			
FM (30°-60°)	13465.3	34.0			
FH (60°-80°)	14402.2	36.4			G5
FVH (80°-90°)	1189.9	3.0			G5
BL (0°-30°)	2084.0	5.3	B3/2500		
BM (30°-60°)	2531.6	6.4	B3/5000		
BH (60°-80°)	2578.6	6.5	B4/5000		G4/5000
BVH (80°-90°)	144.4	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	9071.1	9071.1	9071.1	9071.1	9071.1	9071.1	9071.1	9071.1	9071.1	9071.1	9071.1
2.5°	8903.0	8889.3	8930.3	8972.7	8989.1	9016.4	9057.5	9080.7	9079.3	9083.4	9069.8
5°	8312.4	8294.6	8376.6	8443.6	8572.1	8717.0	8893.4	9019.2	9021.9	9093.0	9112.2
7.5°	7753.2	7740.9	7835.2	7943.2	8092.2	8313.7	8599.5	8870.2	8886.6	9079.3	9146.3
10°	7304.8	7302.0	7393.6	7511.2	7684.8	7932.3	8260.4	8656.9	8681.5	9013.7	9151.8
12.5°	6954.8	6960.2	7039.5	7173.5	7356.7	7615.1	7970.6	8417.6	8457.3	8909.8	9120.4
15°	6696.4	6718.2	6782.5	6917.9	7098.3	7360.8	7725.8	8196.2	8256.3	8793.6	9102.6
17.5°	6548.7	6573.3	6618.4	6730.5	6900.1	7153.0	7498.9	8014.3	8069.0	8704.7	9103.9
20°	6505.0	6525.5	6551.5	6619.8	6763.4	6993.0	7319.8	7850.3	7909.0	8633.6	9117.6
22.5°	6591.1	6606.1	6608.9	6603.4	6690.9	6878.2	7189.9	7729.9	7792.8	8587.2	9127.2
25°	6775.7	6796.2	6781.1	6730.5	6701.8	6816.7	7122.9	7650.7	7713.5	8553.0	9108.0
27.5°	7053.2	7055.9	7043.6	6978.0	6842.7	6823.5	7102.4	7604.2	7664.3	8513.3	9068.4
30°	7430.5	7448.3	7426.4	7337.6	7116.1	6932.9	7127.0	7559.1	7613.7	8462.7	9004.1
32.5°	7872.1	7915.9	7914.5	7821.5	7504.4	7177.6	7228.2	7531.7	7574.1	8409.4	8926.2
35°	8330.1	8390.3	8502.4	8462.7	8070.4	7564.5	7422.3	7575.5	7604.2	8402.6	8871.5
37.5°	8805.9	8866.1	9097.1	9203.8	8744.4	8118.2	7728.6	7729.9	7743.6	8486.0	8867.4
40°	9303.6	9367.8	9715.1	9992.6	9618.0	8819.6	8222.1	8052.6	8037.6	8691.1	8948.1
42.5°	10000.8	10058.2	10475.2	10829.3	10587.3	9717.8	8904.3	8550.2	8518.8	9093.0	9206.5
45°	10882.6	10931.8	11374.8	11753.5	11629.1	10743.2	9761.6	9235.2	9229.7	9762.9	9730.1
47.5°	11931.2	11969.5	12367.4	12733.8	12778.9	11923.0	10838.9	10292.0	10203.1	10681.7	10540.8
50°	13023.6	13066.0	13336.7	13730.4	14065.4	13502.1	12225.2	11586.7	11467.8	11894.3	11689.3
52.5°	13746.8	13802.9	14038.0	14537.1	15511.8	15232.9	13864.4	13156.2	12975.8	13364.0	13206.8
55°	13424.2	13550.0	13909.5	14709.3	16668.5	17877.0	15886.4	14986.9	14783.1	15105.8	15012.8
57.5°	11957.2	12129.5	12620.3	13854.8	16831.2	20206.7	18943.4	17142.9	16999.3	16906.4	16948.7
60°	9276.2	9441.6	10050.0	11659.2	15697.8	21907.4	23543.9	19800.6	19592.8	18713.7	18752.0
62.5°	6565.1	6481.7	6898.7	8075.8	12755.6	22107.0	28778.8	23355.3	22671.7	20622.3	20454.1
65°	5006.6	4987.4	5174.7	5549.3	7725.8	19718.6	31897.3	29329.8	28262.0	22867.2	22470.7
67.5°	4113.8	4079.6	4264.2	4809.7	4975.1	12721.5	31965.7	36261.3	35212.7	25661.7	24803.1
70°	3382.4	3344.1	3516.3	4220.4	4597.8	6451.6	26903.1	40320.4	40264.4	29199.9	26564.0
71°	3032.4	3005.0	3211.5	3993.5	4517.1	5377.1	23228.1	40331.3	40499.5	30397.5	26460.1
72.5°	2469.1	2478.7	2697.4	3554.6	4457.0	4748.2	17071.8	38451.5	38807.0	31539.1	25515.4
75°	1640.6	1648.8	1935.9	2734.3	4321.6	4645.6	9382.8	32265.1	32918.6	30855.5	23282.8
77.5°	1101.9	1099.2	1294.7	1875.7	3765.2	4645.6	5501.5	24131.8	24849.6	24551.5	17949.5
80°	758.8	753.3	891.4	1294.7	2850.5	4701.7	4253.2	16911.8	17129.2	13258.8	7295.2
82.5°	464.8	468.9	582.4	914.6	1940.0	4231.4	4015.4	9221.5	8985.0	3718.7	1822.4
85°	266.6	265.2	371.9	619.3	1245.5	3571.0	3915.6	3968.9	3640.8	1119.7	659.0
87.5°	95.7	102.5	199.6	343.2	713.7	2486.9	3322.2	2064.4	1860.7	505.9	298.0
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°	9071.1	9071.1	9071.1	9071.1	9071.1	9071.1	9071.1	9071.1	9071.1	9071.1	9071.1
2.5°	9060.2	9068.4	9058.8	9004.1	8957.7	8882.5	8840.1	8781.3	8763.5	8755.3	8777.2
5°	9094.4	9097.1	9016.4	8872.9	8711.6	8521.5	8384.8	8216.7	8137.4	8103.2	8125.1
7.5°	9125.8	9113.5	8937.2	8662.4	8364.3	8033.5	7739.5	7470.2	7313.0	7248.7	7254.2
10°	9129.9	9078.0	8795.0	8369.8	7907.7	7422.3	6971.2	6555.6	6293.1	6122.2	6174.1
12.5°	9087.5	9000.0	8585.8	7991.1	7349.9	6688.2	6078.4	5455.0	5080.4	4906.8	4912.2
15°	9054.7	8896.1	8328.8	7545.4	6684.1	5807.7	4975.1	4242.3	3843.1	3665.4	3582.0
17.5°	9027.4	8784.0	8030.7	7043.6	5897.9	4786.4	3785.7	3132.2	2913.4	2861.5	2839.6
20°	8989.1	8665.1	7698.5	6462.6	5002.5	3643.5	2764.4	2441.8	2443.1	2503.3	2511.5
22.5°	8935.8	8529.7	7344.4	5810.4	4041.3	2653.7	2167.0	2074.0	2168.3	2283.2	2303.7
25°	8856.5	8369.8	6950.7	5090.0	3081.6	2039.8	1851.1	1847.0	1961.9	2082.2	2100.0
27.5°	8744.4	8160.6	6513.2	4316.1	2270.9	1733.6	1658.4	1687.1	1771.8	1859.3	1866.2
30°	8594.0	7917.2	6030.6	3499.9	1780.0	1543.5	1535.3	1561.3	1613.3	1674.8	1680.2
32.5°	8428.6	7669.8	5515.1	2709.7	1524.4	1441.0	1449.2	1461.5	1486.1	1510.7	1516.2
35°	8278.2	7416.9	4987.4	2058.9	1402.7	1374.0	1368.5	1365.8	1368.5	1360.3	1361.7
37.5°	8181.1	7207.7	4437.8	1639.2	1333.0	1315.2	1298.8	1278.3	1255.1	1241.4	1244.1
40°	8145.6	7051.8	3881.4	1416.4	1275.6	1263.3	1231.8	1188.1	1160.7	1152.5	1152.5
42.5°	8241.3	6971.2	3344.1	1304.3	1227.7	1207.2	1155.3	1104.7	1084.2	1082.8	1081.4
45°	8533.8	7004.0	2832.8	1242.8	1184.0	1144.3	1076.0	1033.6	1019.9	1022.6	1021.3
47.5°	9058.8	7210.4	2395.3	1201.7	1140.2	1088.3	1011.7	977.5	961.1	961.1	962.5
50°	9951.6	7693.0	2046.6	1167.6	1103.3	1036.3	965.2	922.8	901.0	899.6	899.6
52.5°	11251.8	8557.1	1829.3	1138.8	1062.3	989.8	918.7	865.4	839.4	834.0	831.2
55°	12881.4	9795.7	1769.1	1119.7	1007.6	939.2	862.7	809.4	780.7	768.3	767.0
57.5°	14703.9	11302.3	1888.1	1096.5	951.5	879.1	801.2	750.6	720.5	705.5	704.1
60°	16548.2	12947.0	2373.4	1063.7	905.1	813.5	738.3	691.8	661.7	645.3	642.6
62.5°	18395.2	14680.6	3364.6	1060.9	872.3	750.6	674.0	634.4	605.7	587.9	583.8
65°	20478.8	16578.2	4491.1	1133.4	861.3	693.2	608.4	576.9	552.3	535.9	534.6
67.5°	22871.3	18720.6	4383.1	1282.4	898.2	641.2	546.9	522.3	504.5	490.8	489.4
70°	23993.7	18385.6	2724.8	1387.7	950.2	590.6	488.1	470.3	456.6	447.1	443.0
71°	23523.4	17457.3	2284.5	1375.4	944.7	568.7	464.8	451.2	437.5	429.3	425.2
72.5°	22241.0	15920.6	1905.8	1279.7	883.2	529.1	434.8	421.1	408.8	399.2	396.5
75°	19957.9	14218.5	1525.8	1022.6	704.1	447.1	381.4	366.4	356.8	351.4	345.9
77.5°	14671.0	10147.1	1179.9	808.0	518.2	365.0	325.4	314.4	304.9	296.7	292.6
80°	5620.4	3930.6	794.3	602.9	380.1	288.5	262.5	257.0	247.5	242.0	242.0
82.5°	1513.5	1174.4	423.8	365.0	254.3	210.5	201.0	198.2	190.0	179.1	180.5
85°	612.5	518.2	237.9	201.0	155.9	124.4	135.3	136.7	127.1	113.5	114.8
87.5°	269.3	220.1	132.6	88.9	68.4	47.9	61.5	61.5	56.1	46.5	42.4
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)