

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: P319991

Luminaire Tested: **GAN-SA7A-740-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319991  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA7A-740-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31322 lumens  
Efficiency: N/A  
Efficacy: 138.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

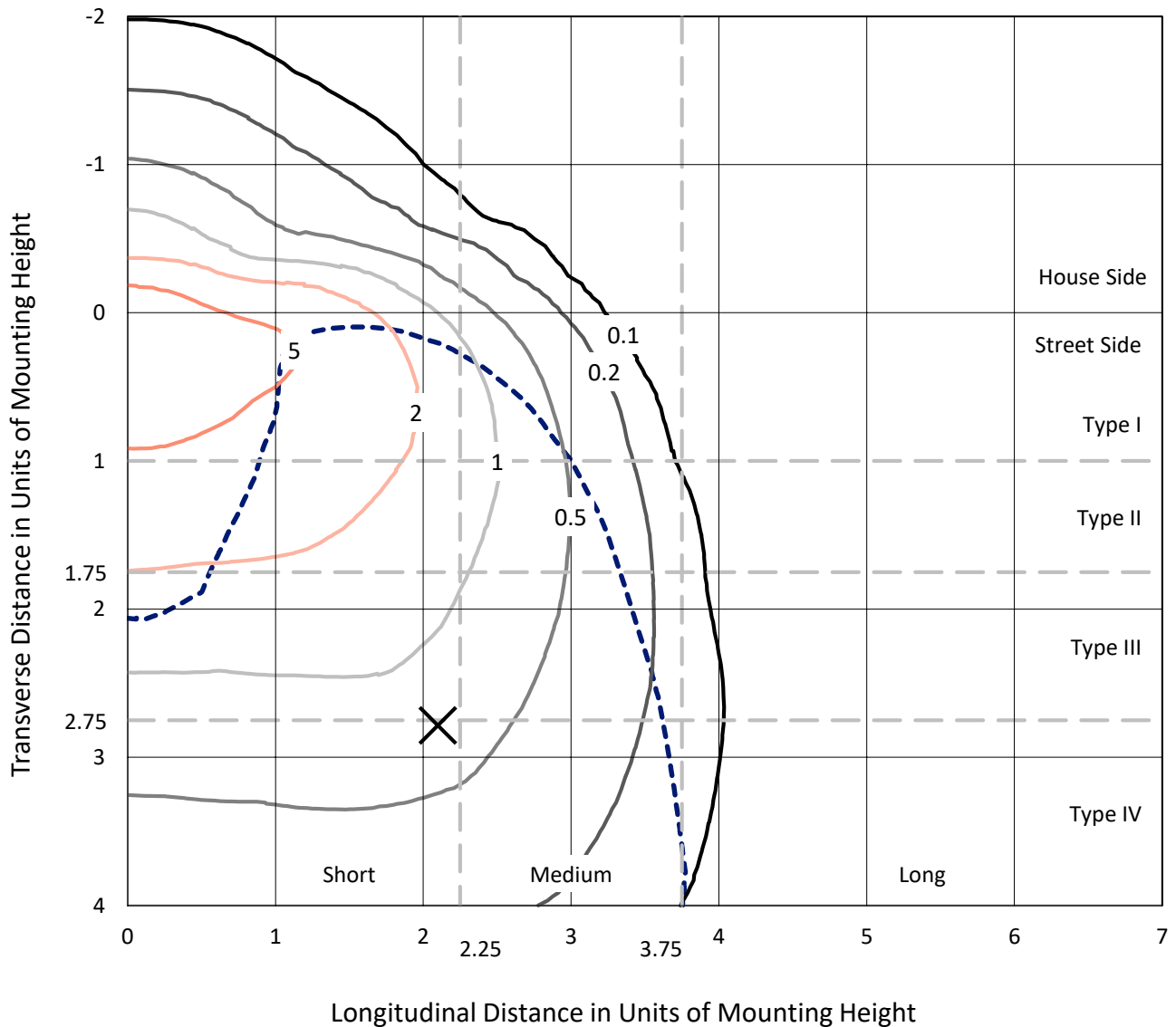
Input Watts (W): 226  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

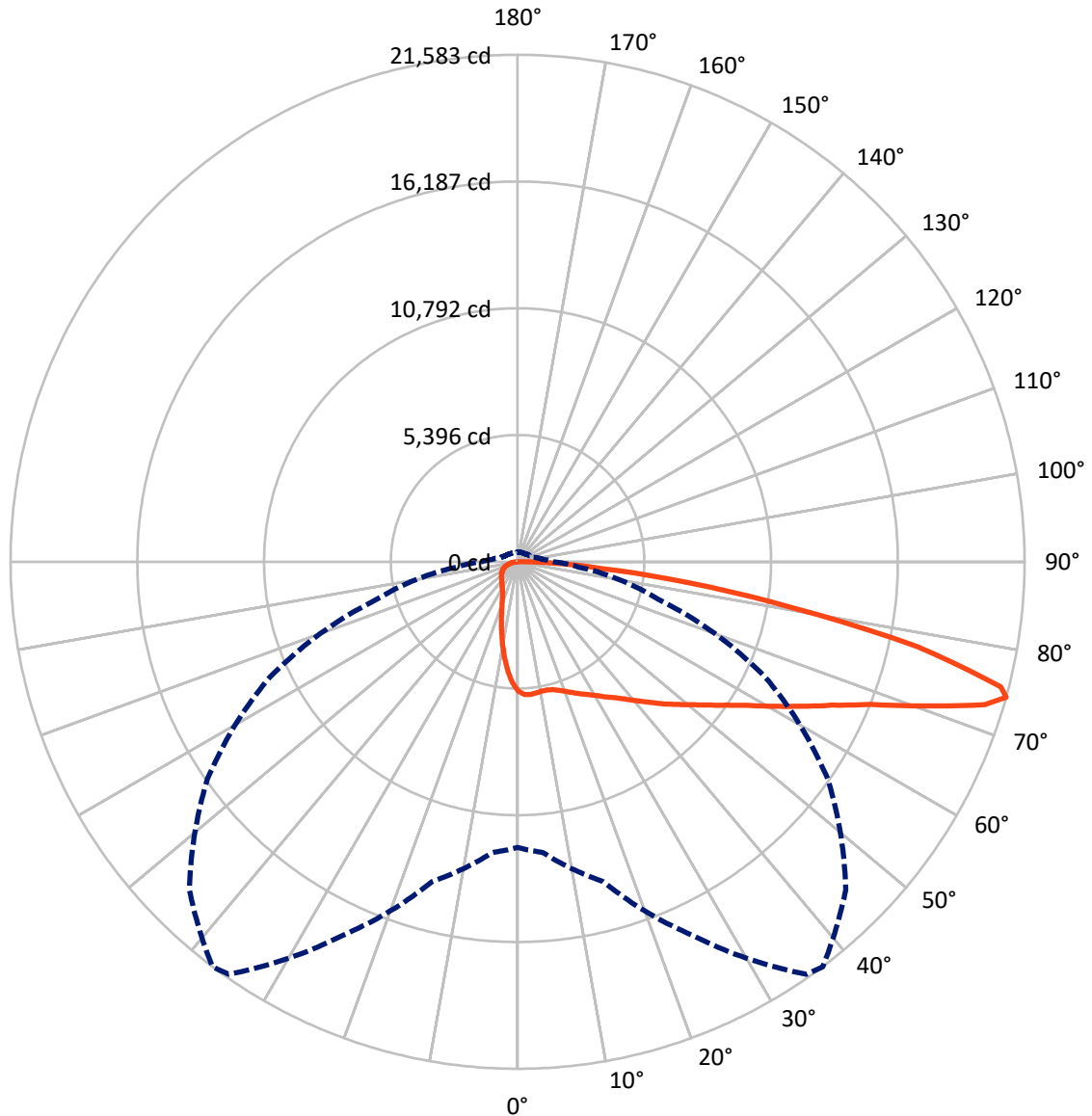
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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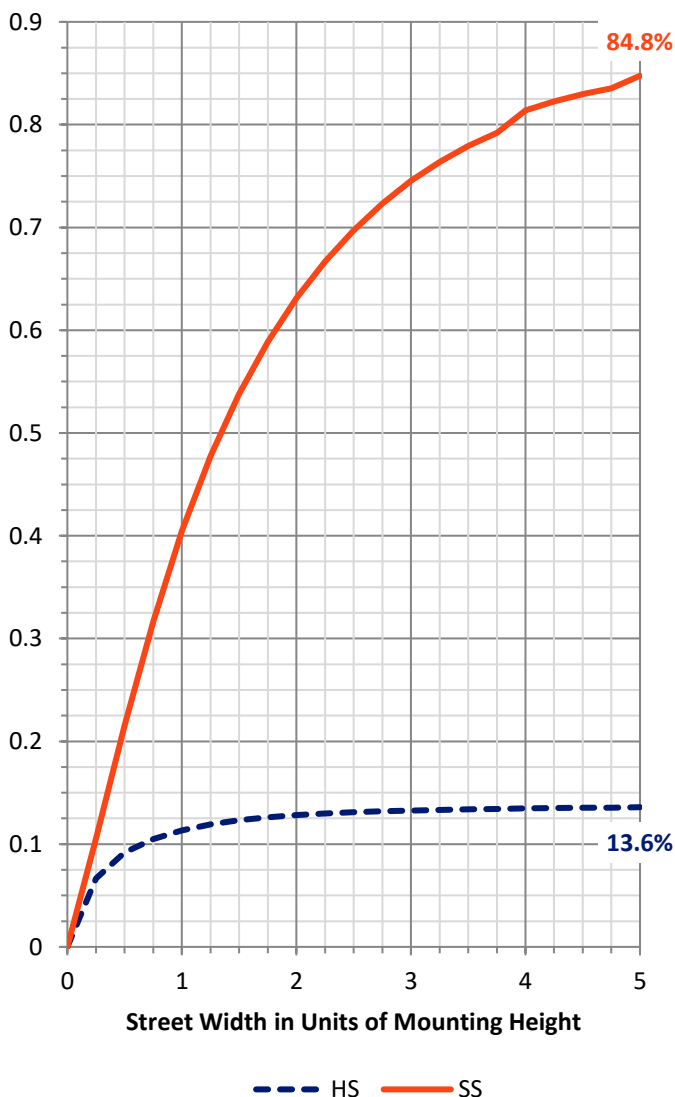
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4309.7	0.0	4309.7
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	27012.3	0.0	27012.3
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	31322.0	0.0	31322.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	486.0	1.6
10°-20°	1245.7	4.0
20°-30°	1919.4	6.1
30°-40°	2791.1	8.9
40°-50°	4108.1	13.1
50°-60°	5769.0	18.4
60°-70°	7301.8	23.3
70°-80°	6429.5	20.5
80°-90°	1271.3	4.1
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°	31322.0	100.0
0°-180°	31322.0	100.0

**Coefficient of Utilization**

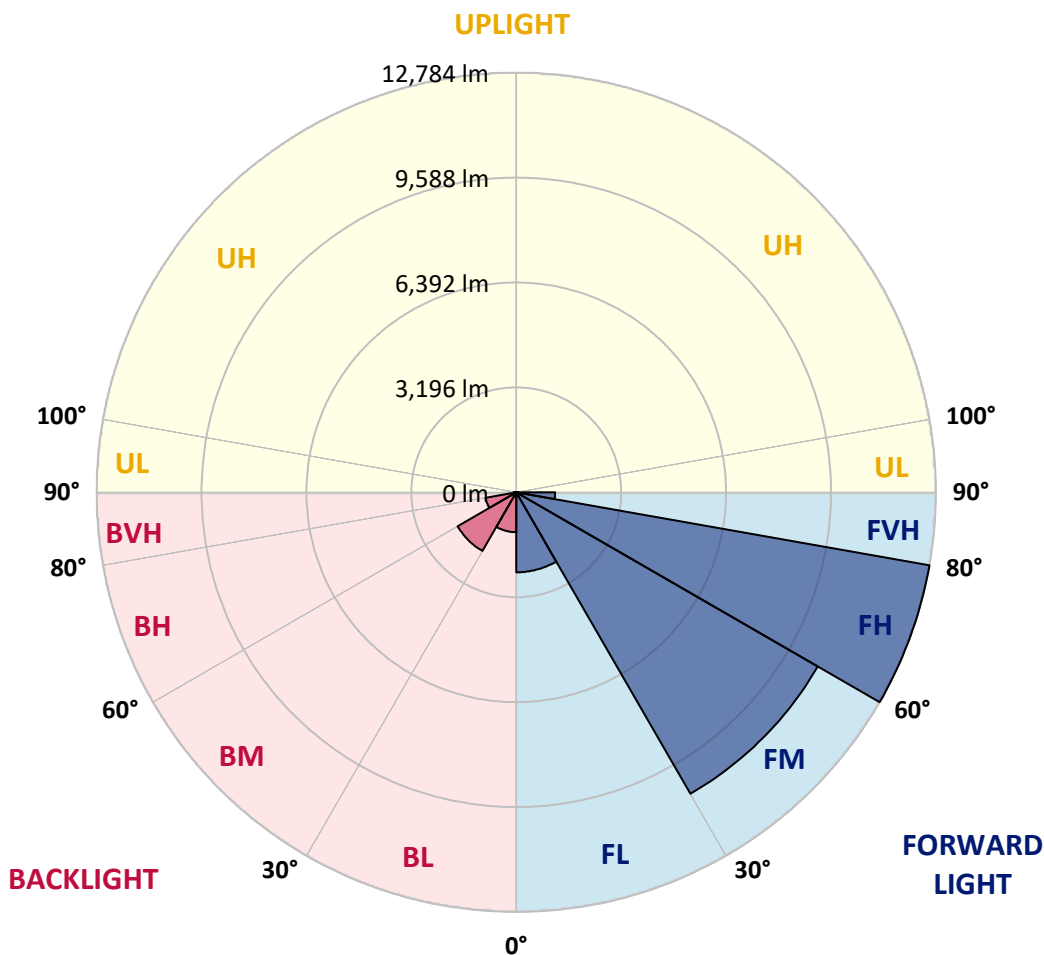


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2437.2	7.8			
FM (30°-60°)	10605.9	33.9			
FH (60°-80°)	12784.0	40.8			G5
FVH (80°-90°)	1185.2	3.8			G5
BL (0°-30°)	1213.9	3.9	B3/2500		
BM (30°-60°)	2062.4	6.6	B2/2500		
BH (60°-80°)	947.3	3.0	B2/1000		G2/1000
BVH (80°-90°)	86.1	0.3			G1/100
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°	37°	45°	55°	65°	75°	85°
0°	5518.8	5518.8	5518.8	5518.8	5518.8	5518.8	5518.8	5518.8	5518.8	5518.8	5518.8
2.5°	5707.5	5708.6	5707.5	5698.7	5677.7	5660.0	5645.7	5624.7	5578.4	5543.1	5490.1
5°	5761.5	5754.9	5750.5	5734.0	5700.9	5681.0	5653.4	5613.7	5537.6	5467.0	5380.9
7.5°	5736.2	5728.4	5718.5	5698.7	5661.1	5644.6	5606.0	5554.1	5462.5	5369.9	5246.3
10°	5657.8	5655.6	5651.2	5646.8	5614.8	5601.6	5566.3	5511.1	5420.6	5308.1	5163.5
12.5°	5570.7	5576.2	5593.8	5617.0	5602.7	5596.0	5574.0	5536.5	5443.8	5322.4	5148.1
15°	5515.5	5531.0	5578.4	5639.1	5651.2	5649.0	5643.5	5619.2	5521.0	5386.4	5183.4
17.5°	5496.7	5522.1	5612.6	5713.0	5748.3	5756.0	5758.2	5716.3	5607.1	5464.8	5219.8
20°	5531.0	5562.9	5695.3	5833.3	5889.5	5893.9	5884.0	5811.2	5688.7	5532.1	5239.7
22.5°	5634.7	5663.4	5828.8	5984.4	6048.4	6055.0	6025.2	5914.9	5774.8	5611.5	5267.3
25°	5834.4	5869.7	6035.2	6190.7	6223.8	6224.9	6181.9	6045.1	5887.3	5722.9	5326.8
27.5°	6094.7	6130.1	6279.0	6431.3	6413.6	6403.7	6345.2	6208.4	6034.1	5876.3	5432.8
30°	6384.9	6423.5	6564.8	6672.9	6631.0	6611.1	6563.7	6387.1	6238.2	6085.9	5594.9
32.5°	6685.0	6720.3	6843.9	6917.8	6864.9	6856.0	6784.3	6623.2	6504.1	6405.9	5857.5
35°	6992.9	7018.2	7139.6	7181.5	7110.9	7108.7	7088.8	6941.0	6866.0	6912.3	6239.3
37.5°	7307.3	7313.9	7417.6	7419.8	7398.9	7407.7	7428.7	7336.0	7356.9	7501.5	6735.8
40°	7587.5	7605.2	7680.2	7703.4	7739.8	7770.7	7875.5	7814.8	7977.0	8233.0	7353.6
42.5°	7795.0	7829.2	7949.4	8009.0	8127.1	8175.6	8323.5	8379.7	8706.3	9090.3	8088.5
45°	7970.4	8023.4	8216.4	8338.9	8538.6	8623.6	8835.4	9024.1	9530.5	10020.4	8861.9
47.5°	8160.2	8227.5	8469.1	8703.0	8974.4	9070.4	9455.5	9737.9	10409.8	10956.0	9591.2
50°	8439.3	8491.2	8727.3	9094.7	9433.4	9557.0	10089.9	10494.8	11303.5	11847.5	10223.4
52.5°	8828.8	8808.9	9008.6	9523.9	9978.4	10130.7	10767.3	11300.2	12209.4	12654.0	10757.4
55°	9220.5	9187.4	9327.5	9972.9	10614.0	10773.9	11513.2	12109.0	13071.1	13380.0	11166.7
57.5°	9656.3	9593.4	9711.4	10479.3	11337.7	11528.6	12348.4	12968.4	13918.4	13966.9	11427.1
60°	10105.3	10020.4	10152.8	11107.1	12256.8	12481.9	13325.9	13807.0	14717.2	14437.0	11511.0
62.5°	10498.1	10438.5	10642.6	11807.7	13292.8	13540.0	14285.8	14698.5	15505.0	14632.3	11208.6
65°	10841.2	10851.2	11204.2	12595.5	14448.0	14711.7	15386.9	15797.4	16125.0	14516.4	10501.4
67.5°	11250.6	11306.8	11909.3	13632.6	15902.2	16191.2	16988.9	16995.6	16471.5	13836.8	9109.0
70°	11847.5	11963.3	12879.1	15071.4	17969.8	18367.0	18982.6	17699.5	15984.9	11994.2	7167.2
72.5°	12377.1	12593.3	13910.7	16717.5	20489.8	20791.0	20148.9	17293.5	13951.5	8988.8	4465.1
74°	12161.9	12430.0	14098.2	17528.5	21438.6	21583.2	19755.0	16108.5	11632.3	6224.9	2595.0
75°	11698.5	11989.8	13824.6	17520.7	21318.4	21237.8	18803.9	14754.7	9580.1	4245.6	1726.7
77.5°	9441.1	9749.0	11648.9	15016.2	17479.9	17403.8	14444.7	9897.9	4195.9	1392.4	877.1
80°	5489.0	5724.0	7231.2	9536.0	11786.8	11924.7	9499.6	4897.6	1650.6	782.3	594.7
82.5°	2438.3	2600.5	3493.1	4867.9	7113.1	7290.7	4974.9	2566.3	1019.5	475.5	357.5
85°	1599.8	1720.1	2120.6	2318.1	3387.2	3508.6	2435.0	1998.1	673.0	261.5	262.6
87.5°	1150.8	1266.6	1575.5	1375.8	1554.6	1471.8	1325.1	1849.2	270.3	148.9	88.3
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°	5518.8	5518.8	5518.8	5518.8	5518.8	5518.8	5518.8	5518.8	5518.8	5518.8	5518.8
2.5°	5467.0	5449.3	5409.6	5334.6	5292.6	5257.3	5198.9	5164.6	5149.2	5148.1	5154.7
5°	5331.3	5290.4	5187.8	5062.0	4961.6	4870.1	4756.4	4688.0	4639.5	4610.8	4618.5
7.5°	5173.5	5109.5	4948.4	4747.6	4586.5	4408.9	4233.4	4128.6	4047.0	3986.3	3997.3
10°	5065.3	4977.1	4742.1	4453.0	4184.9	3926.7	3685.1	3540.6	3425.8	3337.5	3344.2
12.5°	5028.9	4909.8	4584.3	4198.1	3821.9	3468.8	3153.3	2931.5	2813.5	2713.1	2720.8
15°	5034.5	4874.5	4451.9	3968.6	3495.3	3050.7	2667.8	2408.6	2248.6	2179.1	2180.2
17.5°	5038.9	4833.7	4312.9	3722.6	3172.0	2660.1	2244.2	1981.6	1830.4	1766.4	1767.5
20°	5024.5	4767.5	4140.8	3440.2	2834.4	2301.5	1898.8	1675.9	1561.2	1511.6	1511.6
22.5°	5005.8	4689.1	3946.6	3156.6	2501.2	1990.4	1651.7	1481.8	1415.6	1382.5	1381.4
25°	5014.6	4630.6	3748.0	2865.3	2194.5	1742.1	1487.3	1374.7	1330.6	1309.6	1308.5
27.5°	5062.0	4603.1	3564.8	2575.2	1926.4	1555.7	1376.9	1297.5	1268.8	1255.6	1255.6
30°	5148.1	4603.1	3374.0	2328.0	1703.5	1417.8	1292.0	1237.9	1218.1	1209.2	1209.2
32.5°	5298.2	4628.4	3189.7	2083.1	1525.9	1309.6	1221.4	1185.0	1169.5	1165.1	1165.1
35°	5556.3	4714.5	3009.9	1851.4	1382.5	1221.4	1154.1	1133.1	1122.1	1121.0	1124.3
37.5°	5919.3	4889.9	2841.1	1680.4	1281.0	1149.7	1097.8	1081.3	1074.6	1080.2	1084.6
40°	6376.1	5128.2	2687.7	1525.9	1203.7	1092.3	1045.9	1034.9	1031.6	1039.3	1045.9
42.5°	6927.8	5450.4	2561.9	1414.5	1144.1	1043.7	1001.8	988.6	985.3	994.1	1002.9
45°	7524.7	5796.9	2473.6	1331.7	1097.8	1007.3	963.2	948.9	942.2	946.6	956.6
47.5°	8067.5	6124.5	2438.3	1273.2	1053.7	976.4	929.0	911.3	900.3	898.1	905.8
50°	8525.4	6368.4	2454.9	1237.9	1018.4	942.2	895.9	876.0	859.5	849.6	855.1
52.5°	8858.6	6521.7	2470.3	1222.5	990.8	904.7	859.5	840.7	818.7	802.1	802.1
55°	9100.2	6557.0	2436.1	1210.3	969.8	863.9	818.7	801.0	778.9	760.2	758.0
57.5°	9195.1	6457.7	2309.3	1192.7	955.5	825.3	775.6	762.4	743.6	721.6	720.5
60°	9067.1	6151.0	2064.3	1155.2	936.7	793.3	732.6	723.8	715.0	694.0	692.9
62.5°	8552.9	5478.0	1747.7	1079.0	899.2	759.1	692.9	697.3	698.4	684.1	681.9
65°	7620.6	4553.4	1438.7	979.7	842.9	718.3	652.1	673.0	685.2	683.0	679.6
67.5°	6265.8	3543.9	1219.2	874.9	769.0	662.0	607.9	632.2	642.1	649.9	647.6
70°	4650.5	2499.0	1008.4	764.6	679.6	595.8	550.6	562.7	556.1	564.9	568.2
72.5°	2592.8	1499.4	822.0	654.3	587.0	518.6	486.6	484.4	470.0	470.0	470.0
74°	1555.7	1100.0	722.7	585.9	530.7	467.8	440.2	430.3	417.1	418.2	417.1
75°	1251.2	945.5	663.1	540.6	491.0	438.0	410.4	397.2	387.3	387.3	386.2
77.5°	790.0	718.3	534.0	430.3	392.8	360.8	342.0	324.4	324.4	323.3	322.2
80°	596.9	571.5	416.0	325.5	301.2	276.9	264.8	257.1	257.1	260.4	259.3
82.5°	409.3	430.3	292.4	227.3	215.1	197.5	195.3	196.4	193.1	188.7	187.6
85°	299.0	323.3	197.5	143.4	131.3	120.3	129.1	133.5	128.0	118.1	113.6
87.5°	114.7	211.8	105.9	59.6	55.2	47.4	55.2	57.4	61.8	48.5	49.6
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)