

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: P322544

Luminaire Tested: **GAN-SA0D-730-U-T4FT-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322544  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA0D-730-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 49669 lumens  
Efficiency: N/A  
Efficacy: 77.6 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

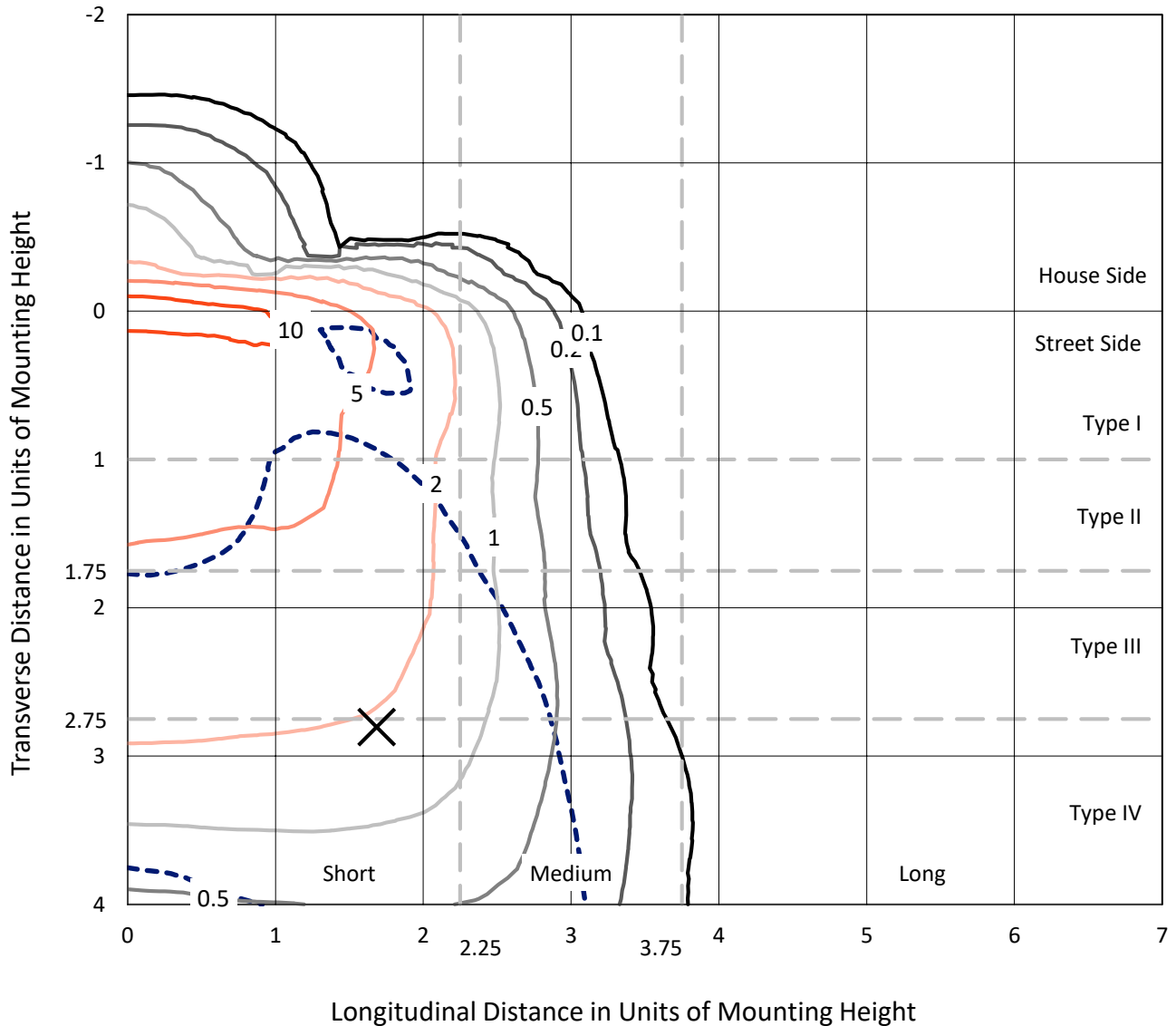
Input Watts (W): 640  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

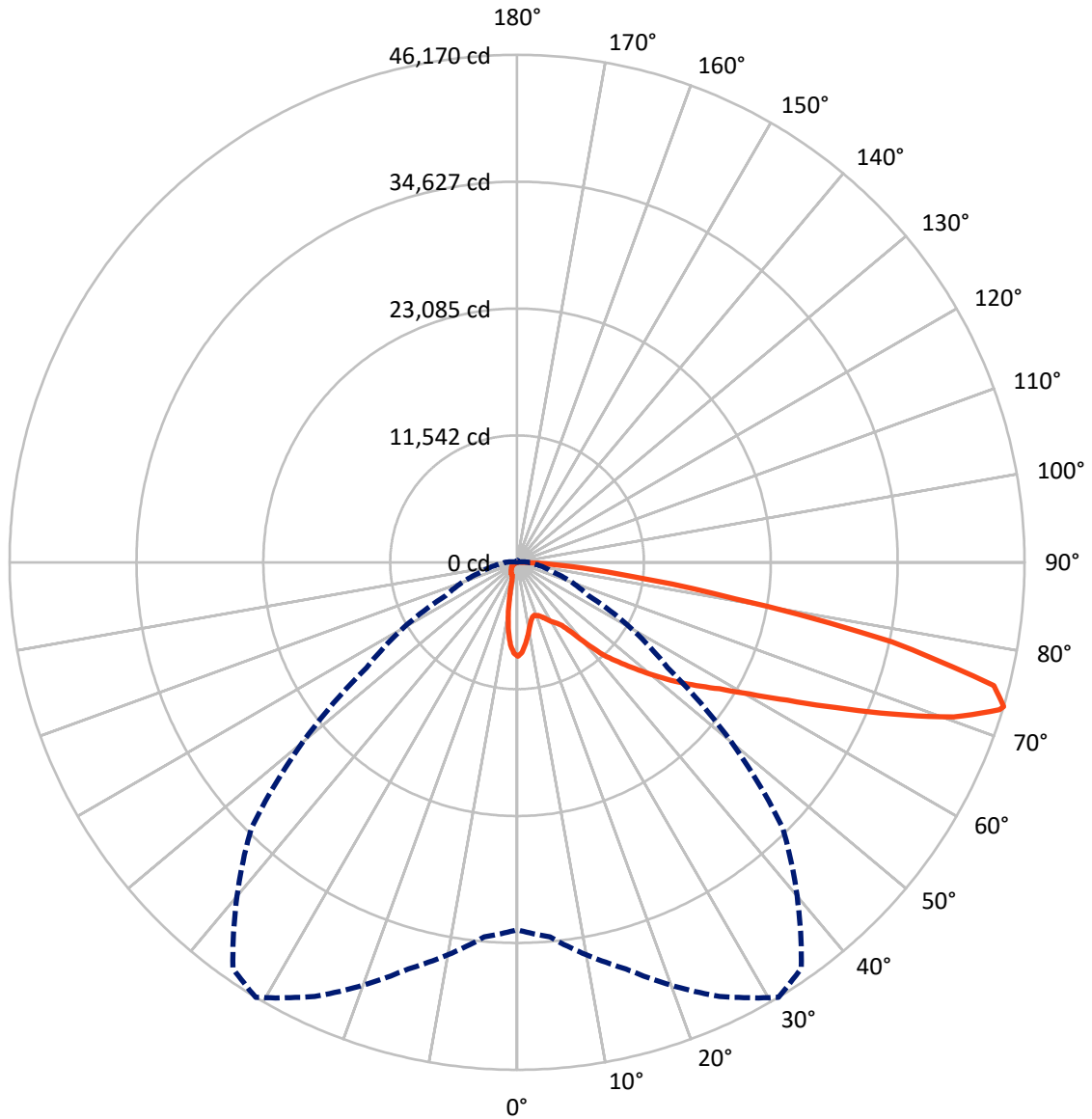
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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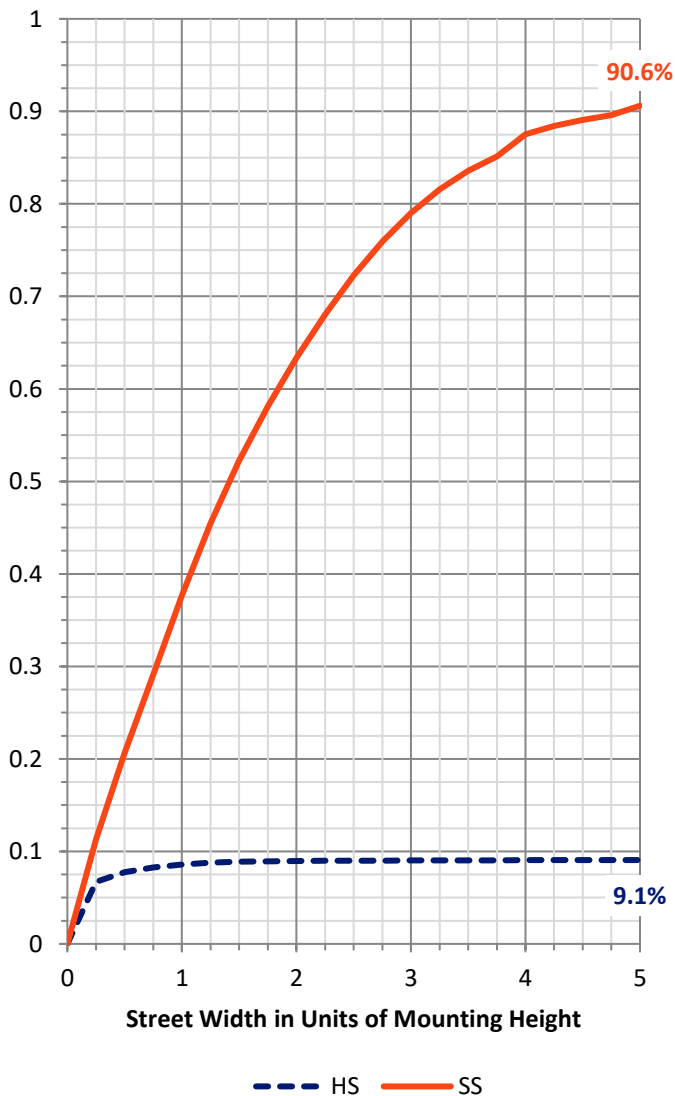
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4527.5	0.0	4527.5
	% Fixture	9.1	0.0	9.1
<b>Street Side</b>	Lumens	45141.5	0.0	45141.5
	% Fixture	90.9	0.0	90.9
<b>Total</b>	Lumens	49669.0	0.0	49669.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	708.5	1.4
10°-20°	1538.5	3.1
20°-30°	2305.1	4.6
30°-40°	3667.4	7.4
40°-50°	6548.9	13.2
50°-60°	10162.1	20.5
60°-70°	13509.1	27.2
70°-80°	10161.6	20.5
80°-90°	1067.8	2.1
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°	49669.0	100.0
0°-180°	49669.0	100.0

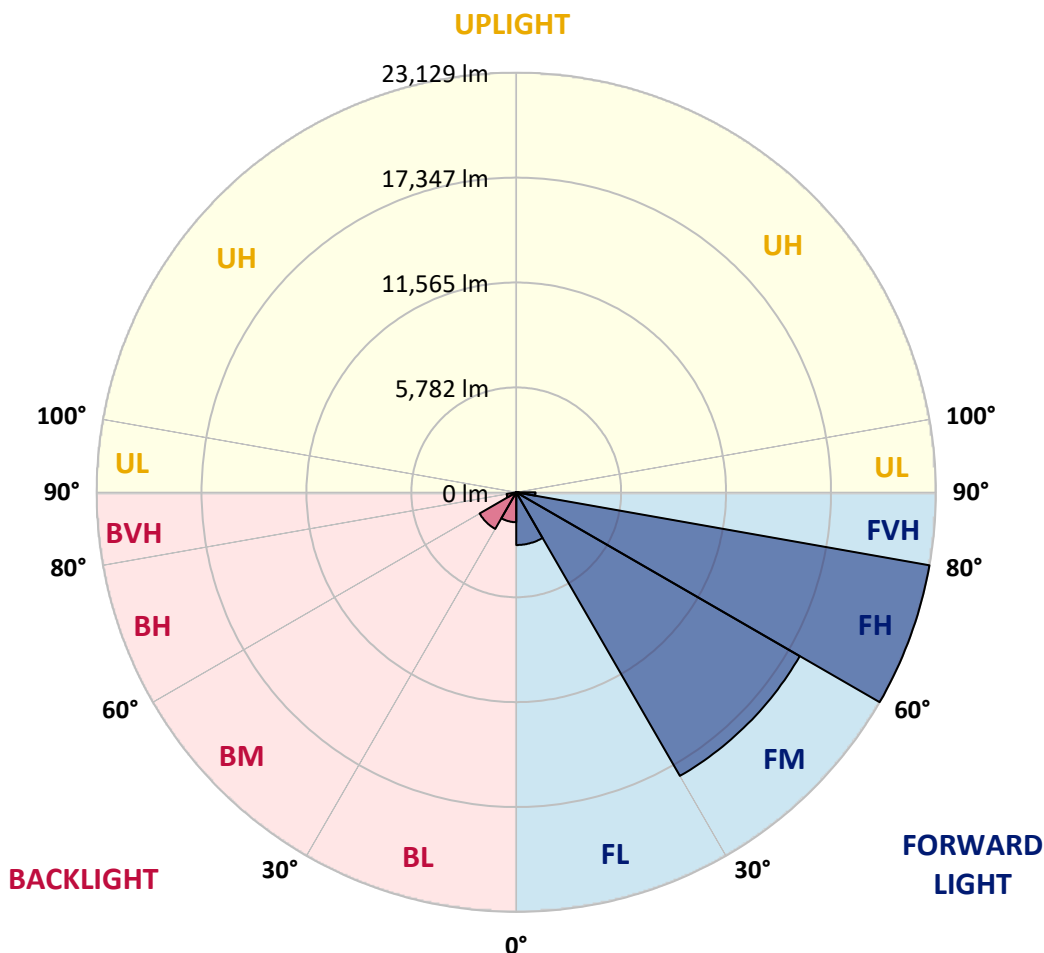


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2905.7	5.9			
FM (30°-60°)	18048.0	36.3			
FH (60°-80°)	23129.0	46.6			G5
FVH (80°-90°)	1058.8	2.1			G5
BL (0°-30°)	1646.4	3.3	B3/2500		
BM (30°-60°)	2330.4	4.7	B2/2500		
BH (60°-80°)	541.7	1.1	B2/1000		G2/1000
BVH (80°-90°)	9.0	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°	31°	35°	45°	55°	65°	75°	85°
0°	8545.7	8545.7	8545.7	8545.7	8545.7	8545.7	8545.7	8545.7	8545.7	8545.7	8545.7
2.5°	8098.4	8132.5	8168.9	8176.2	8237.0	8239.4	8326.9	8392.5	8458.2	8521.3	8543.2
5°	7267.2	7323.1	7388.7	7454.4	7583.2	7634.2	7848.1	8066.8	8275.9	8475.2	8572.4
7.5°	6380.1	6443.3	6535.6	6698.5	6841.9	6941.5	7279.4	7668.2	8057.1	8424.1	8635.6
10°	5570.7	5629.0	5726.3	5898.8	6120.0	6256.1	6710.6	7250.2	7821.4	8377.9	8730.4
12.5°	5055.4	5087.0	5140.5	5325.2	5524.5	5677.7	6212.4	6880.8	7626.9	8375.5	8883.5
15°	4960.7	4970.4	4926.6	5009.3	5164.8	5313.1	5855.1	6581.8	7478.7	8414.4	9082.8
17.5°	5111.4	5106.5	4960.7	4950.9	5074.9	5196.4	5680.1	6375.2	7374.2	8504.3	9340.4
20°	5339.8	5322.8	5070.0	5023.9	5155.1	5269.3	5667.9	6297.4	7335.3	8655.0	9654.0
22.5°	5643.6	5614.5	5218.3	5169.7	5310.7	5429.7	5818.6	6372.8	7369.3	8856.8	10018.5
25°	6020.4	5976.6	5473.5	5420.0	5563.4	5682.5	6088.4	6589.1	7471.4	9102.2	10480.3
27.5°	6445.7	6382.5	5881.8	5743.3	5906.1	6030.1	6448.1	6919.6	7631.8	9362.3	11046.6
30°	6846.7	6764.1	6312.0	6083.6	6282.9	6421.4	6837.0	7313.4	7889.4	9763.3	11822.0
32.5°	7250.2	7157.8	6696.0	6423.8	6603.7	6754.4	7238.0	7855.4	8373.1	10375.8	12852.5
35°	8178.6	8081.4	7515.1	7065.5	7063.0	7148.1	7799.5	8596.7	9012.3	11228.9	14082.3
37.5°	9741.5	9685.6	9146.0	8292.9	8064.4	7969.6	8565.1	9481.4	9931.0	12402.9	15470.2
40°	11452.5	11403.9	10798.7	10025.8	9678.3	9444.9	9663.7	10713.7	11228.9	13836.9	16887.1
42.5°	13384.8	13153.9	12074.7	11843.8	11532.7	11355.3	11158.4	12232.7	12823.3	15397.2	18292.0
45°	15139.6	14750.7	13350.8	13000.8	12930.3	12974.0	13083.4	14274.4	14617.1	17251.7	19691.9
47.5°	16184.7	15878.5	14804.2	14468.8	14449.3	14738.6	15564.9	16580.9	16403.5	18868.0	20924.2
50°	17178.8	16901.7	16009.7	16092.4	16182.3	16576.0	18381.9	18953.1	18034.3	20333.6	22054.4
52.5°	17983.3	17560.4	17093.7	17558.0	18000.3	18634.7	21288.8	21082.2	19191.3	21500.2	23021.7
55°	18447.5	18255.5	18481.6	18948.2	19779.4	20810.0	24032.8	22854.0	20037.1	22564.8	23665.8
57.5°	20148.9	19772.2	20221.8	20625.3	21709.3	23150.6	26383.1	24173.8	20647.1	23223.5	23814.1
60°	22207.5	21903.7	22168.6	22839.4	24302.6	25996.7	28580.3	25250.5	20965.5	23646.4	23430.1
62.5°	25483.8	25082.8	24917.5	25668.6	27608.1	29457.7	30247.6	25996.7	20895.0	23459.2	22112.7
65°	29873.3	29457.7	28718.8	29399.4	31866.3	33171.5	32111.8	26154.7	20408.9	21945.0	18782.9
67.5°	34369.8	34068.4	33436.4	34583.6	36810.0	37230.5	34083.0	25770.6	18843.7	17793.7	13270.6
70°	37339.8	37211.0	37621.8	40159.2	42144.9	42023.4	35891.3	23707.1	14687.5	10942.1	6564.8
72.5°	35198.6	35815.9	38849.2	43450.1	45875.8	44884.1	34962.8	18204.5	8395.0	4209.6	1898.2
73°	33424.3	34214.2	38297.5	43574.1	46169.9	45083.4	34182.6	16709.7	7155.4	3322.5	1438.9
75°	23252.6	24222.4	31705.9	40582.1	44794.2	42954.3	28492.8	10227.6	3315.2	1472.9	580.9
77.5°	11289.7	12006.7	17458.3	29321.6	34836.4	33560.4	17737.8	3811.0	1497.2	921.2	267.4
80°	4214.5	4686.0	7578.3	14923.3	20131.9	20659.3	7801.9	1441.3	996.5	741.3	136.1
82.5°	1103.4	1229.8	2795.1	6654.7	10317.5	10798.7	2459.7	726.7	729.2	610.1	82.6
85°	352.4	403.5	872.6	2987.1	4861.0	4268.0	641.7	352.4	529.8	454.5	46.2
87.5°	43.7	55.9	277.1	702.4	1071.9	595.5	99.7	104.5	226.0	252.8	26.7
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°	8545.7	8545.7	8545.7	8545.7	8545.7	8545.7	8545.7	8545.7	8545.7	8545.7	8545.7
2.5°	8565.1	8552.9	8555.4	8492.2	8450.9	8368.2	8283.2	8244.3	8203.0	8185.9	8203.0
5°	8608.8	8587.0	8523.8	8329.3	8122.7	7855.4	7605.0	7415.5	7177.3	7111.7	7179.7
7.5°	8676.9	8633.2	8448.4	8052.3	7592.9	7082.5	6508.9	6090.8	5748.1	5527.0	5607.2
10°	8776.6	8693.9	8322.0	7648.8	6827.3	5923.1	5108.9	4474.6	4024.9	3840.2	3832.9
12.5°	8944.3	8788.7	8166.5	7123.8	5891.5	4686.0	3619.0	2931.2	2566.6	2330.9	2326.0
15°	9129.0	8900.5	7969.6	6494.3	4802.7	3356.5	2330.9	1808.3	1572.5	1497.2	1487.5
17.5°	9355.0	9029.3	7714.4	5719.0	3662.8	2223.9	1521.5	1370.8	1361.1	1353.8	1353.8
20°	9639.4	9182.4	7386.3	4831.8	2598.2	1485.0	1293.0	1302.8	1307.6	1297.9	1300.3
22.5°	9969.9	9338.0	6995.0	3879.1	1757.3	1242.0	1237.1	1249.3	1254.1	1249.3	1251.7
25°	10353.9	9517.9	6518.6	2880.1	1268.7	1178.8	1190.9	1208.0	1220.1	1220.1	1220.1
27.5°	10830.3	9736.6	5945.0	2010.0	1096.2	1113.2	1147.2	1178.8	1195.8	1200.7	1200.7
30°	11450.1	10008.8	5257.2	1378.1	996.5	1025.7	1088.9	1149.6	1181.2	1186.1	1188.5
32.5°	12232.7	10315.1	4460.0	1018.4	911.4	933.3	1001.4	1103.4	1164.2	1173.9	1173.9
35°	13129.6	10669.9	3602.0	887.1	850.7	858.0	911.4	1028.1	1135.0	1161.8	1164.2
37.5°	14111.5	11019.9	2739.2	828.8	799.6	799.6	838.5	938.2	1064.6	1147.2	1156.9
40°	15027.8	11231.4	1920.1	782.6	753.5	753.5	787.5	860.4	979.5	1103.4	1130.2
42.5°	15873.6	11304.3	1336.8	738.9	709.7	717.0	746.2	804.5	894.4	1018.4	1042.7
45°	16743.7	11292.1	974.6	687.8	666.0	687.8	709.7	753.5	819.1	889.6	894.4
47.5°	17400.0	11190.0	772.9	639.2	624.6	653.8	673.2	702.4	738.9	734.0	734.0
50°	18014.9	10942.1	622.2	573.6	583.3	617.3	627.1	636.8	639.2	593.0	588.2
52.5°	18481.6	10555.7	498.3	503.1	542.0	576.0	566.3	551.7	527.4	471.5	461.8
55°	18637.1	9811.9	391.3	415.6	481.2	525.0	488.5	456.9	410.8	364.6	354.9
57.5°	18355.2	8851.9	318.4	323.3	405.9	442.4	401.0	364.6	313.5	274.6	267.4
60°	17757.3	7784.9	262.5	243.1	313.5	345.1	318.4	281.9	235.8	206.6	204.2
62.5°	16571.2	6647.4	216.3	189.6	238.2	264.9	247.9	221.2	182.3	162.8	160.4
65°	14077.5	5317.9	175.0	153.1	184.7	206.6	192.0	172.6	143.4	128.8	126.4
67.5°	9826.5	3594.7	143.4	126.4	145.8	162.8	150.7	141.0	114.2	111.8	114.2
70°	4739.5	1732.9	119.1	102.1	114.2	126.4	121.5	114.2	109.4	126.4	145.8
72.5°	1358.7	580.9	94.8	85.1	92.4	99.7	104.5	102.1	119.1	153.1	177.4
73°	1045.1	469.1	89.9	80.2	87.5	97.2	102.1	99.7	121.5	155.6	177.4
75°	447.2	226.0	68.1	65.6	72.9	85.1	89.9	89.9	121.5	158.0	170.1
77.5°	201.7	121.5	43.7	51.0	63.2	68.1	75.3	75.3	97.2	121.5	121.5
80°	114.2	65.6	34.0	38.9	46.2	46.2	46.2	41.3	43.7	48.6	53.5
82.5°	72.9	43.7	26.7	31.6	29.2	24.3	19.4	19.4	17.0	19.4	24.3
85°	41.3	24.3	24.3	19.4	12.2	9.7	12.2	9.7	2.4	0.0	2.4
87.5°	24.3	14.6	7.3	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)