

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: P319698

Luminaire Tested: **GAN-SA4D-740-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319698  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA4D-740-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31302 lumens  
Efficiency: N/A  
Efficacy: 121.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

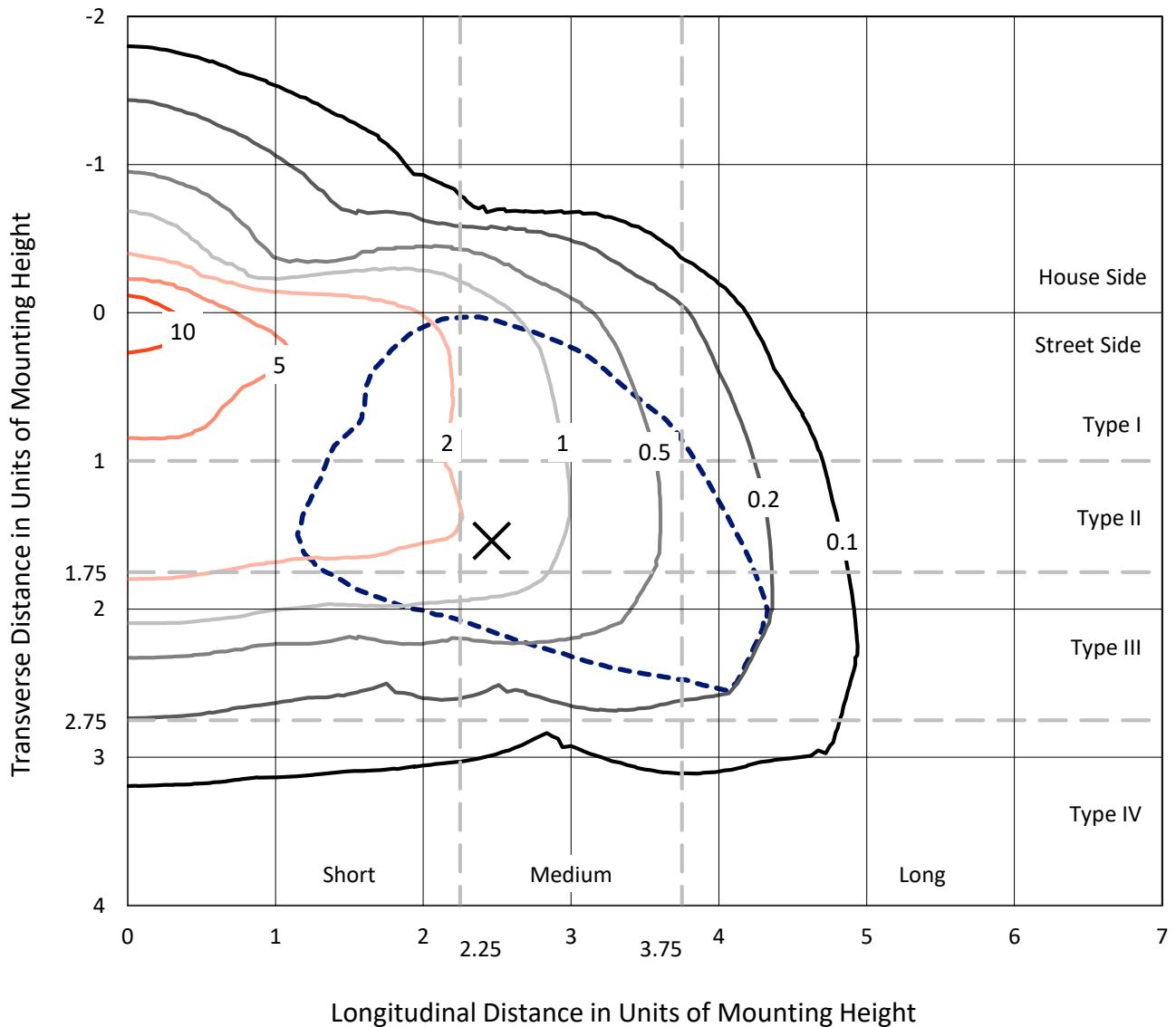
Input Watts (W): 258  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

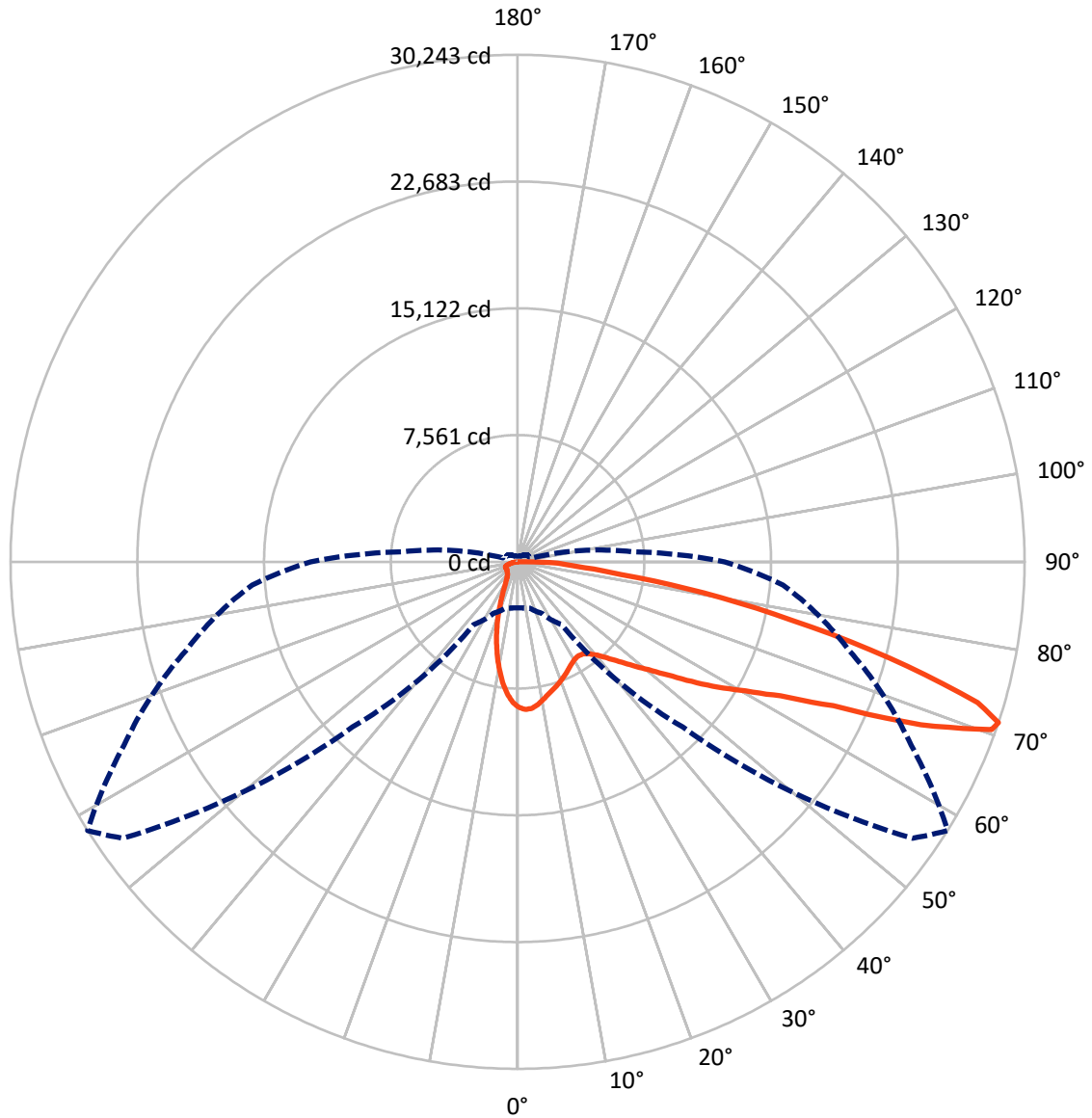
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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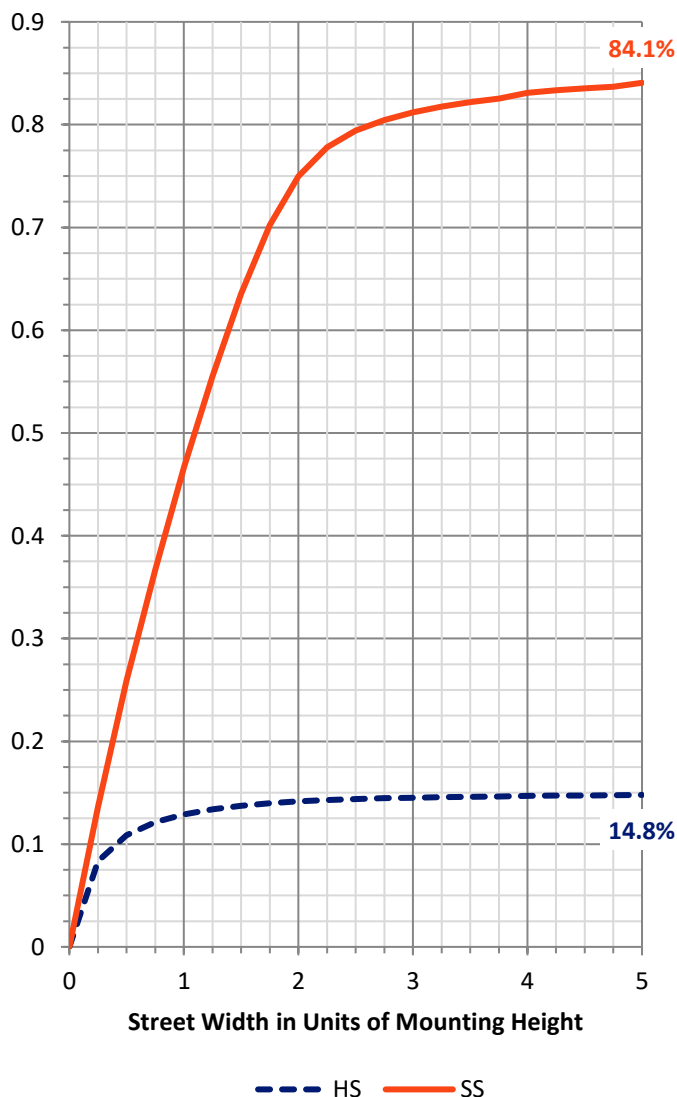
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4679.9	0.0	4679.9
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	26622.1	0.0	26622.1
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	31302.0	0.0	31302.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	748.2	2.4
10°-20°	1663.7	5.3
20°-30°	2114.4	6.8
30°-40°	2693.3	8.6
40°-50°	3819.3	12.2
50°-60°	5910.5	18.9
60°-70°	8046.3	25.7
70°-80°	5367.8	17.1
80°-90°	938.5	3.0
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°	31302.0	100.0
0°-180°	31302.0	100.0

**Coefficient of Utilization**

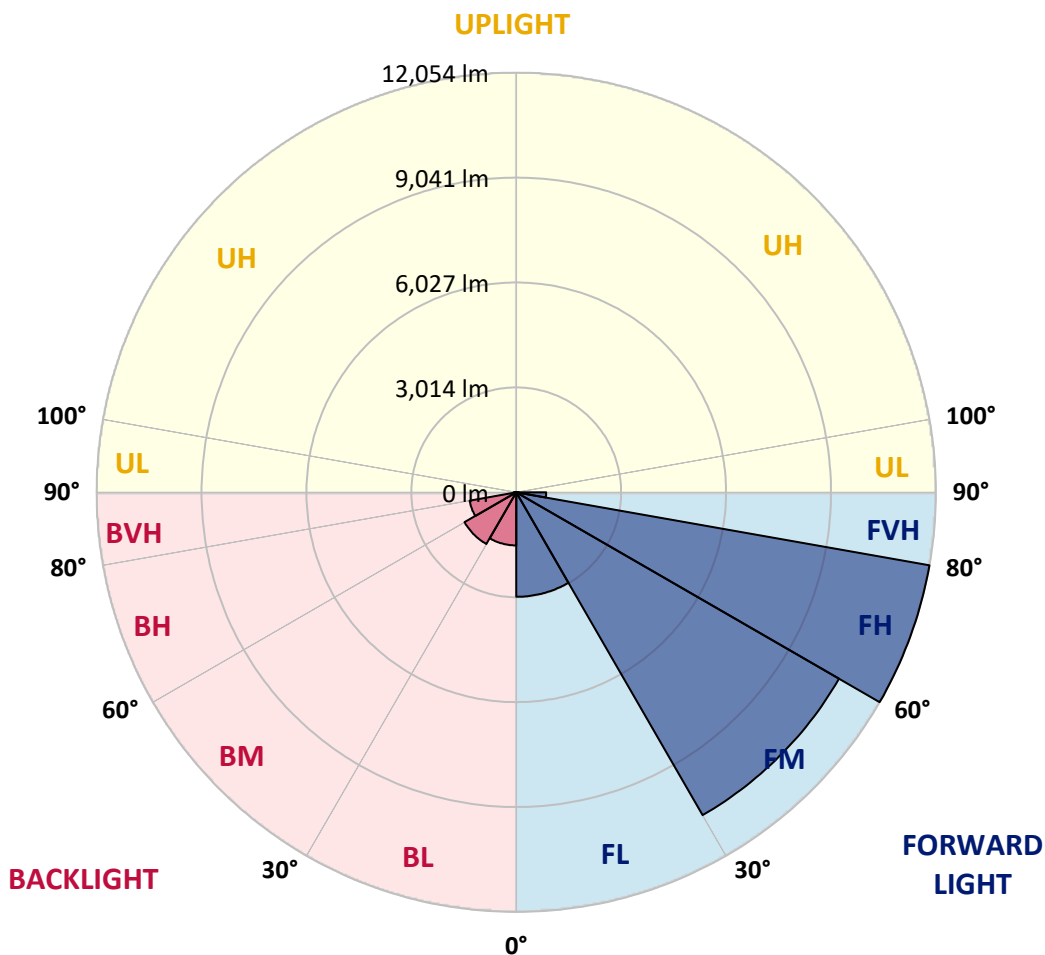


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3000.8	9.6			
FM (30°-60°)	10706.8	34.2			
FH (60°-80°)	12054.0	38.5			G5
FVH (80°-90°)	860.5	2.7			G5
BL (0°-30°)	1525.5	4.9	B3/2500		
BM (30°-60°)	1716.2	5.5	B2/2500		
BH (60°-80°)	1360.2	4.3	B3/2500		G3/2500
BVH (80°-90°)	78.0	0.2			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8672.7	8672.7	8672.7	8672.7	8672.7	8672.7	8672.7	8672.7	8672.7	8672.7	8672.7
2.5°	8902.8	8890.8	8895.2	8886.5	8865.7	8845.0	8814.5	8819.9	8777.4	8714.2	8635.7
5°	8734.9	8730.5	8763.2	8781.8	8797.0	8785.1	8776.3	8787.2	8725.1	8637.9	8501.6
7.5°	8382.7	8334.7	8376.2	8438.3	8497.2	8541.9	8600.8	8608.4	8569.2	8477.6	8298.8
10°	7882.2	7836.4	7897.5	7994.5	8112.3	8219.2	8338.0	8359.8	8367.4	8284.6	8067.6
12.5°	7363.2	7328.3	7389.4	7525.7	7720.9	7885.5	8075.2	8107.9	8175.5	8119.9	7853.9
15°	6898.7	6885.6	6959.8	7093.9	7318.5	7570.4	7844.1	7904.0	8018.5	8000.0	7687.1
17.5°	6497.5	6494.2	6550.9	6691.6	6940.2	7258.5	7614.0	7715.4	7885.5	7907.3	7549.7
20°	6198.7	6192.2	6231.4	6335.0	6591.2	6952.2	7365.4	7505.0	7750.3	7826.6	7407.9
22.5°	6038.4	6037.3	6038.4	6087.5	6296.8	6632.7	7123.3	7293.4	7618.4	7762.3	7250.9
25°	6011.2	6007.9	5983.9	5978.5	6097.3	6365.5	6883.5	7071.0	7493.0	7717.6	7101.5
27.5°	6082.0	6086.4	6054.8	6003.5	6027.5	6190.0	6675.2	6875.8	7392.7	7708.9	6997.9
30°	6229.2	6227.1	6199.8	6146.4	6099.5	6124.6	6526.9	6727.5	7325.1	7747.0	6927.1
32.5°	6391.7	6403.7	6398.2	6368.8	6299.0	6198.7	6482.2	6678.5	7305.4	7838.6	6896.5
35°	6586.9	6600.0	6639.2	6662.1	6580.3	6419.0	6578.2	6748.3	7362.1	8010.9	6945.6
37.5°	6772.2	6806.0	6916.2	7013.2	6943.4	6763.5	6833.3	6954.3	7537.7	8282.4	7077.5
40°	6986.0	7015.4	7195.3	7401.4	7390.5	7204.0	7244.4	7325.1	7847.3	8671.7	7316.3
42.5°	7196.4	7255.3	7515.9	7808.1	7892.0	7727.4	7791.7	7834.3	8283.5	9187.4	7732.9
45°	7476.6	7539.9	7901.9	8254.0	8450.3	8357.6	8460.1	8476.5	8831.9	9889.6	8338.0
47.5°	7900.8	7972.7	8394.7	8764.3	9064.2	9074.0	9243.0	9236.5	9516.7	10693.2	9100.2
50°	8561.5	8665.1	9010.8	9356.4	9720.6	9923.4	10149.1	10117.5	10337.7	11549.1	9977.9
52.5°	9427.3	9475.3	9731.5	9986.6	10439.1	10893.8	11217.7	11189.3	11268.9	12429.0	10974.5
55°	10324.6	10360.6	10466.4	10606.0	11214.4	11955.8	12640.6	12595.9	12394.2	13342.8	11959.1
57.5°	11131.5	11204.6	11277.6	11335.4	11995.1	13065.8	14096.2	14099.5	13615.4	14328.5	12976.4
60°	11256.9	11321.2	11804.3	12260.0	13330.8	14546.5	15654.3	15621.6	14879.1	15398.1	14110.4
62.5°	9950.7	10095.7	10902.5	12115.0	14617.4	17255.0	17642.1	17601.7	16390.3	16716.4	15430.8
65°	7131.0	7295.6	8269.3	10091.3	13993.7	20239.3	21229.4	20686.4	18451.1	18337.7	16977.0
67.5°	4113.9	4153.2	4575.2	6038.4	10655.0	20395.2	26701.9	25941.9	21651.3	20177.2	17733.7
70°	3042.1	3041.0	3141.3	3716.0	5765.8	16645.5	29304.6	29986.1	25020.6	20782.3	16664.0
71°	2751.0	2754.3	2866.6	3382.3	4566.4	13932.7	28751.8	30243.4	25908.1	20483.6	15889.9
72.5°	2353.0	2363.9	2519.8	3033.4	3841.3	9608.3	26370.4	28699.4	26329.0	19746.5	14678.5
75°	1784.9	1810.0	2025.9	2556.9	3511.0	4872.8	19353.9	22917.2	23389.4	17424.0	10906.9
77.5°	1273.5	1301.9	1546.1	2150.2	3337.6	3672.3	12961.1	16716.4	17212.5	11166.4	4919.7
80°	804.7	838.5	1022.8	1710.8	3135.9	3487.0	8145.0	11236.2	9385.8	3573.1	1251.7
82.5°	472.1	498.3	634.6	1117.6	2561.3	3358.3	4792.1	6228.2	3652.7	1079.5	569.2
85°	273.7	285.7	395.8	712.0	1860.2	3169.7	3520.8	3481.5	1585.4	527.7	269.3
87.5°	127.6	141.7	234.4	371.8	1032.6	2297.4	2782.6	2404.3	985.7	247.5	126.5
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°	8672.7	8672.7	8672.7	8672.7	8672.7	8672.7	8672.7	8672.7	8672.7	8672.7	8672.7
2.5°	8597.5	8579.0	8501.6	8432.9	8360.9	8267.1	8163.5	8150.5	8087.2	8099.2	8077.4
5°	8427.4	8380.5	8194.1	8025.1	7825.5	7646.7	7452.6	7363.2	7234.6	7225.8	7193.1
7.5°	8184.3	8097.0	7808.1	7487.5	7167.0	6861.7	6559.6	6361.2	6158.4	6072.2	6064.6
10°	7910.6	7762.3	7337.1	6862.7	6400.4	5954.5	5522.7	5203.2	4915.4	4779.1	4773.6
12.5°	7651.1	7431.9	6848.6	6203.1	5570.7	4992.8	4400.7	3980.9	3620.0	3499.0	3447.7
15°	7430.8	7122.3	6373.2	5547.8	4780.2	3977.6	3303.8	2862.2	2528.6	2413.0	2391.2
17.5°	7217.1	6820.2	5885.8	4885.9	3958.0	3075.9	2401.0	2072.8	1895.1	1848.2	1847.1
20°	7004.5	6509.5	5376.6	4208.8	3163.1	2300.7	1846.0	1698.8	1638.8	1633.4	1624.6
22.5°	6763.5	6180.2	4841.2	3529.5	2468.6	1808.9	1569.0	1510.2	1502.5	1522.1	1522.1
25°	6537.8	5853.1	4298.2	2864.4	1920.1	1509.1	1401.1	1389.1	1409.8	1444.7	1448.0
27.5°	6327.4	5538.0	3768.3	2273.4	1538.5	1329.2	1284.4	1298.6	1335.7	1376.0	1377.1
30°	6154.0	5240.3	3253.6	1791.5	1299.7	1195.0	1187.4	1215.8	1256.1	1287.7	1295.4
32.5°	6019.9	4986.2	2756.4	1440.4	1143.8	1094.7	1101.3	1125.3	1150.3	1167.8	1179.8
35°	5957.7	4768.2	2297.4	1214.7	1044.6	1017.3	1026.0	1039.1	1050.0	1063.1	1072.9
37.5°	5968.6	4599.2	1887.4	1074.0	978.1	963.9	963.9	963.9	963.9	970.4	971.5
40°	6070.1	4502.1	1553.8	984.6	933.4	918.1	906.1	895.2	886.5	890.8	888.6
42.5°	6329.6	4493.4	1309.5	927.9	897.4	872.3	848.3	833.0	822.1	826.5	828.7
45°	6770.1	4602.4	1144.9	887.6	863.6	825.4	794.9	778.5	770.9	785.1	787.2
47.5°	7340.3	4840.1	1044.6	858.1	831.9	781.8	749.1	733.8	736.0	756.7	762.2
50°	8075.2	5226.1	996.6	839.6	810.1	744.7	710.9	697.8	704.4	733.8	740.4
52.5°	8882.1	5782.2	1002.0	834.1	796.0	717.5	681.5	666.2	677.1	704.4	709.8
55°	9813.3	6450.6	1092.5	841.8	775.2	700.0	657.5	631.3	640.0	665.1	669.5
57.5°	10848.0	7216.0	1274.6	839.6	749.1	683.7	632.4	593.2	599.7	615.0	619.3
60°	11925.3	8140.6	1557.0	846.1	737.1	664.0	598.6	549.5	547.4	560.4	562.6
62.5°	13218.5	9210.3	1879.8	850.5	744.7	639.0	553.9	505.9	499.4	502.7	504.8
65°	14550.9	9984.5	1758.8	833.0	768.7	618.2	514.7	463.4	451.4	449.2	450.3
67.5°	14592.3	9154.7	1233.2	798.1	778.5	607.3	485.2	427.4	407.8	400.2	399.1
70°	13086.5	7437.4	960.6	761.1	739.3	589.9	458.0	398.0	368.5	356.5	355.5
71°	12351.6	6846.4	910.5	742.5	709.8	572.4	446.0	384.9	354.4	341.3	339.1
72.5°	11199.1	6137.7	849.4	713.1	653.1	527.7	423.1	366.4	334.7	319.5	316.2
75°	8037.1	4013.6	729.5	635.7	540.8	420.9	370.7	329.3	302.0	283.5	281.3
77.5°	3096.6	1597.4	551.7	528.8	414.3	329.3	305.3	284.6	265.0	246.4	245.3
80°	957.3	714.2	402.3	398.0	299.8	245.3	237.7	232.2	224.6	205.0	200.6
82.5°	511.4	410.0	277.0	257.3	196.3	163.6	172.3	174.5	175.5	154.8	152.7
85°	244.2	217.0	155.9	146.1	114.5	91.6	105.8	114.5	115.6	94.9	88.3
87.5°	116.7	113.4	73.1	55.6	42.5	30.5	37.1	45.8	50.2	36.0	31.6
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)