

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: P319338

Luminaire Tested: **GAN-SA4D-730-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319338  
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-SA4D-730-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 1200mA 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: 27924 lumens  
Efficiency: N/A  
Efficacy: 108.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

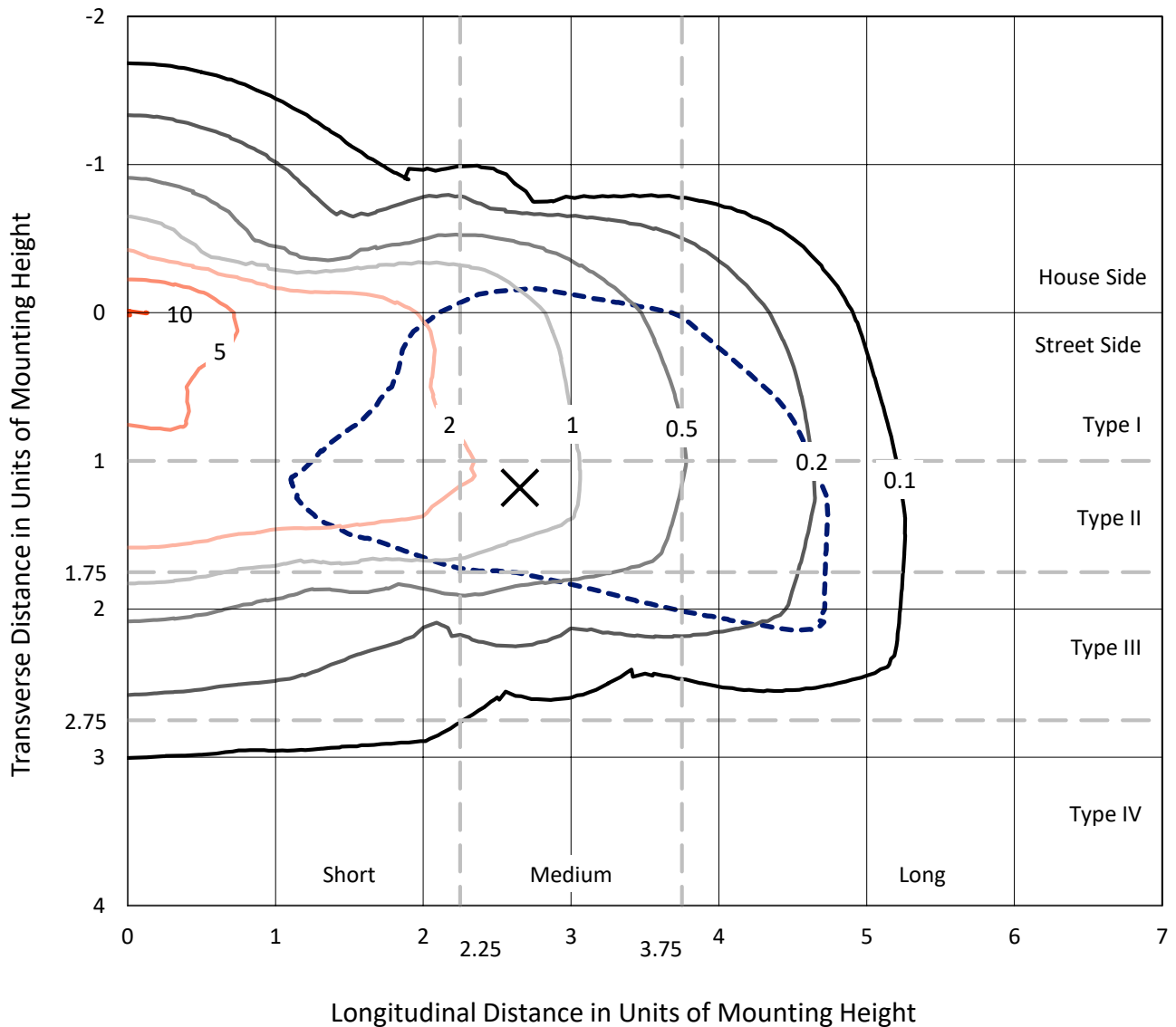
Input Watts (W): 258  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

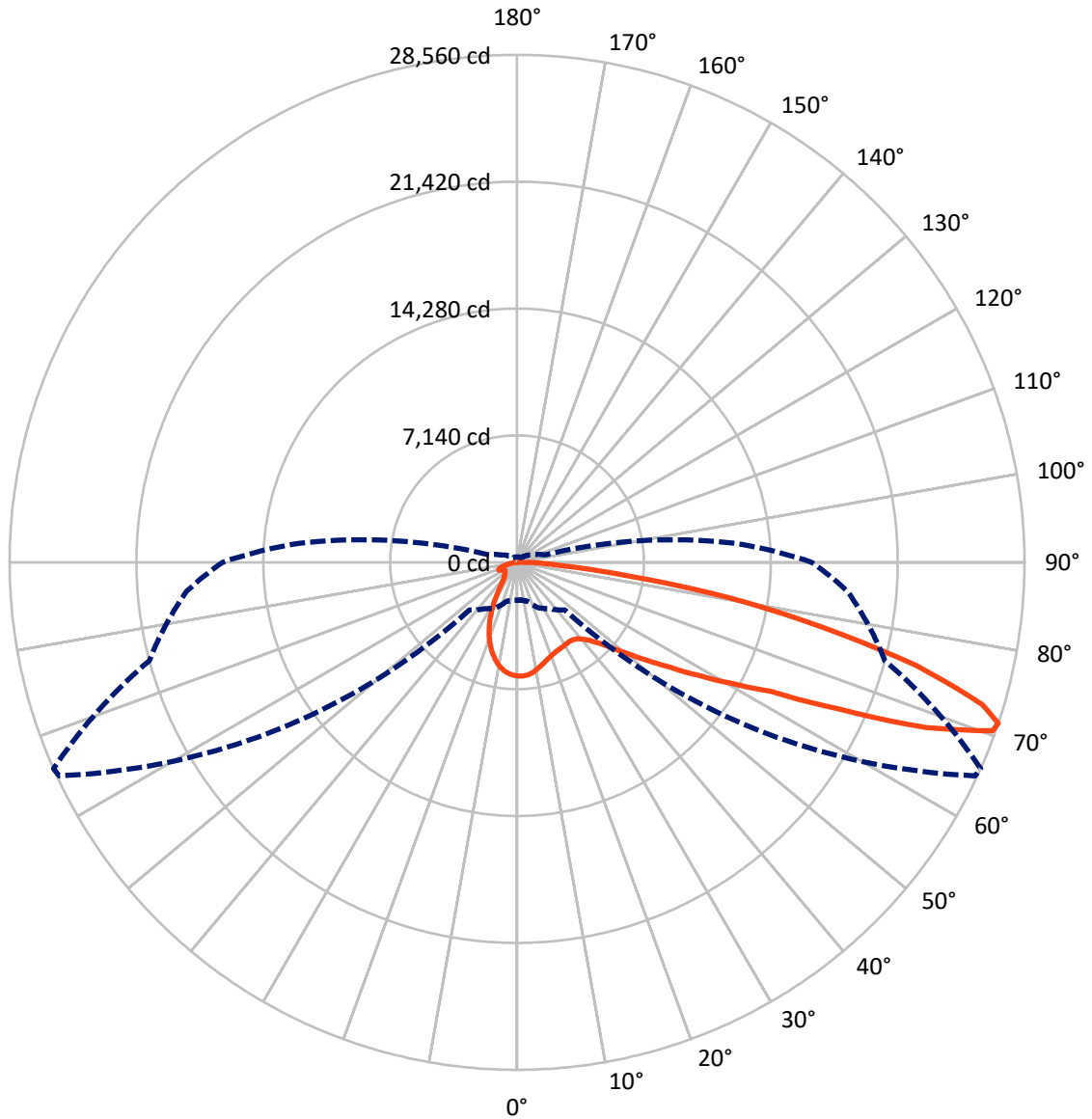
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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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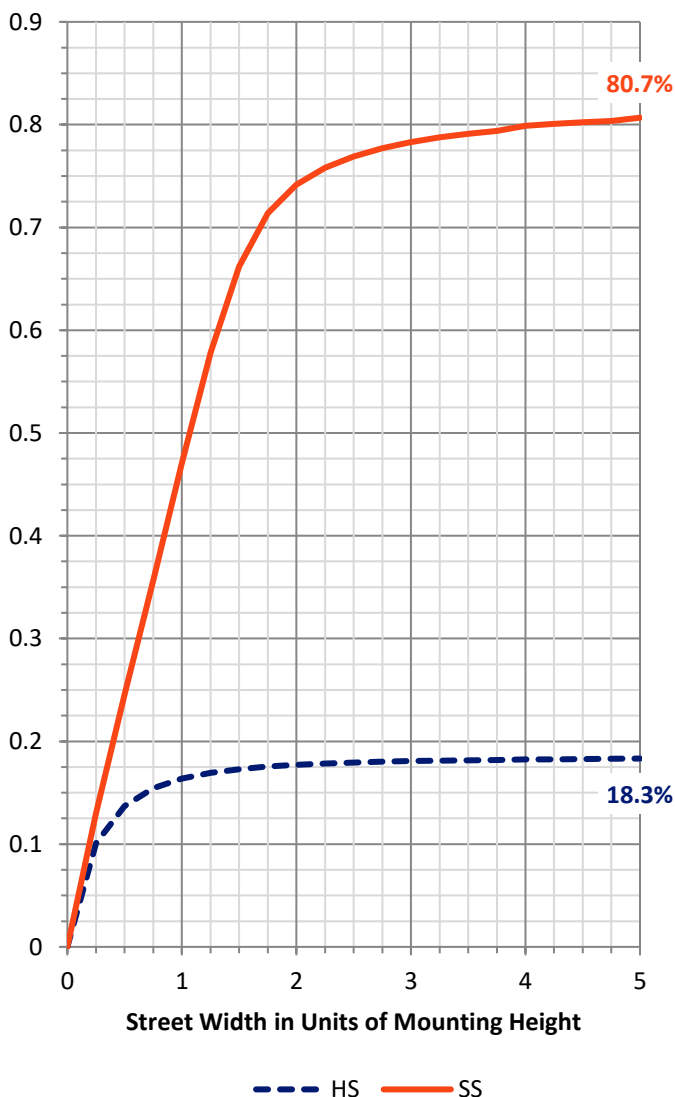
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5175.1	0.0	5175.1
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	22748.9	0.0	22748.9
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	27924.0	0.0	27924.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	563.1	2.0
10°-20°	1350.5	4.8
20°-30°	1814.1	6.5
30°-40°	2386.4	8.5
40°-50°	3471.5	12.4
50°-60°	5422.9	19.4
60°-70°	6793.1	24.3
70°-80°	5181.6	18.6
80°-90°	940.9	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°	27924.0	100.0
0°-180°	27924.0	100.0

**Coefficient of Utilization**

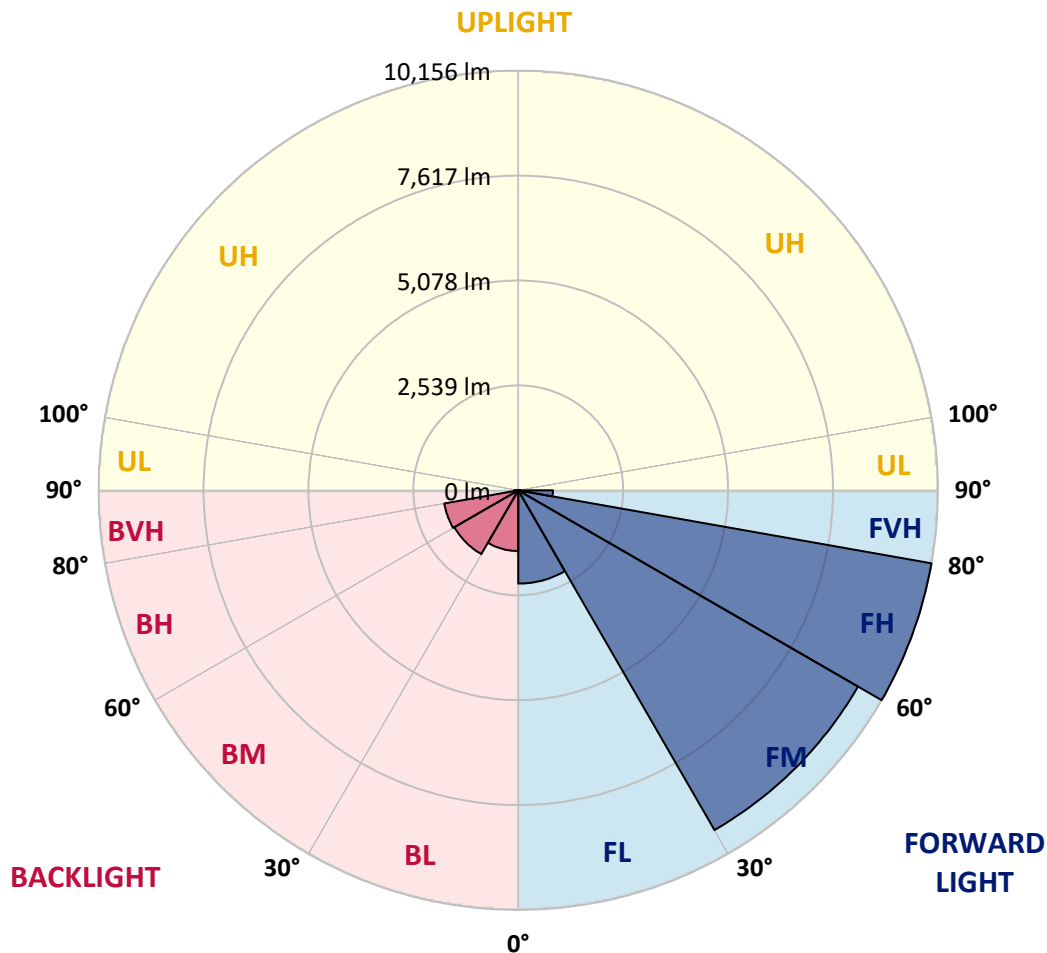


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2258.0	8.1			
FM (30°-60°)	9495.6	34.0			
FH (60°-80°)	10156.2	36.4			G4/12000
FVH (80°-90°)	839.1	3.0			G5
BL (0°-30°)	1469.6	5.3	B3/2500		
BM (30°-60°)	1785.2	6.4	B2/2500		
BH (60°-80°)	1818.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	101.9	0.4			G2/225
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°	65°	66°	75°	85°
0°	6396.8	6396.8	6396.8	6396.8	6396.8	6396.8	6396.8	6396.8	6396.8	6396.8	6396.8
2.5°	6278.3	6268.6	6297.5	6327.4	6339.0	6358.3	6387.2	6403.6	6402.6	6405.5	6395.9
5°	5861.8	5849.2	5907.1	5954.3	6044.9	6147.1	6271.5	6360.2	6362.1	6412.3	6425.8
7.5°	5467.4	5458.8	5525.3	5601.5	5706.5	5862.7	6064.2	6255.1	6266.7	6402.6	6449.9
10°	5151.2	5149.3	5213.9	5296.8	5419.2	5593.7	5825.1	6104.7	6122.1	6356.4	6453.7
12.5°	4904.4	4908.3	4964.2	5058.7	5187.9	5370.1	5620.7	5936.0	5964.0	6283.1	6431.6
15°	4722.2	4737.6	4782.9	4878.4	5005.6	5190.8	5448.2	5779.8	5822.2	6201.1	6419.0
17.5°	4618.1	4635.4	4667.2	4746.3	4865.8	5044.2	5288.1	5651.6	5690.2	6138.5	6420.0
20°	4587.2	4601.7	4620.0	4668.2	4769.4	4931.4	5161.8	5535.9	5577.4	6088.3	6429.6
22.5°	4648.0	4658.6	4660.5	4656.6	4718.3	4850.4	5070.2	5451.1	5495.4	6055.6	6436.4
25°	4778.1	4792.6	4782.0	4746.3	4726.1	4807.0	5023.0	5395.1	5439.5	6031.5	6422.9
27.5°	4973.8	4975.8	4967.1	4920.8	4825.4	4811.9	5008.5	5362.4	5404.8	6003.5	6394.9
30°	5239.9	5252.5	5237.0	5174.4	5018.2	4889.0	5025.9	5330.5	5369.1	5967.8	6349.6
32.5°	5551.3	5582.2	5581.2	5515.7	5292.0	5061.6	5097.2	5311.3	5341.2	5930.2	6294.7
35°	5874.3	5916.7	5995.8	5967.8	5691.1	5334.4	5234.1	5342.1	5362.4	5925.4	6256.1
37.5°	6209.8	6252.2	6415.2	6490.4	6166.4	5724.9	5450.1	5451.1	5460.7	5984.2	6253.2
40°	6560.7	6606.1	6850.9	7046.7	6782.5	6219.5	5798.1	5678.6	5668.0	6128.8	6310.1
42.5°	7052.4	7092.9	7387.0	7636.7	7466.0	6852.9	6279.2	6029.5	6007.3	6412.3	6492.3
45°	7674.3	7709.0	8021.4	8288.4	8200.7	7576.0	6883.7	6512.5	6508.7	6884.7	6861.5
47.5°	8413.8	8440.8	8721.3	8979.7	9011.5	8408.0	7643.4	7257.8	7195.1	7532.6	7433.3
50°	9184.1	9214.0	9404.9	9682.5	9918.7	9521.5	8621.0	8170.8	8086.9	8387.7	8243.1
52.5°	9694.1	9733.6	9899.4	10251.3	10938.8	10742.1	9777.0	9277.6	9150.3	9424.1	9313.3
55°	9466.6	9555.3	9808.8	10372.8	11754.4	12606.7	11202.9	10568.5	10424.9	10652.4	10586.9
57.5°	8432.1	8553.6	8899.7	9770.3	11869.1	14249.5	13358.7	12088.9	11987.7	11922.1	11952.0
60°	6541.5	6658.1	7087.1	8221.9	11069.9	15448.8	16602.9	13963.2	13816.6	13196.7	13223.7
62.5°	4629.6	4570.8	4864.9	5695.0	8995.1	15589.6	20294.4	16469.8	15987.8	14542.6	14424.0
65°	3530.6	3517.1	3649.1	3913.3	5448.2	13905.3	22493.6	20683.0	19930.0	16125.6	15846.1
67.5°	2901.0	2876.9	3007.0	3391.7	3508.4	8971.0	22541.8	25571.0	24831.5	18096.3	17490.8
70°	2385.2	2358.2	2479.7	2976.2	3242.3	4549.6	18971.7	28433.4	28393.9	20591.4	18732.6
71°	2138.4	2119.1	2264.7	2816.2	3185.4	3791.8	16380.2	28441.1	28559.7	21435.9	18659.3
72.5°	1741.2	1747.9	1902.2	2506.7	3143.0	3348.3	12038.8	27115.5	27366.2	22241.0	17993.1
75°	1156.9	1162.7	1365.2	1928.2	3047.5	3276.0	6616.7	22752.9	23213.8	21758.9	16418.7
77.5°	777.1	775.1	913.0	1322.8	2655.1	3276.0	3879.6	17017.4	17523.6	17313.4	12657.8
80°	535.1	531.2	628.6	913.0	2010.2	3315.6	2999.3	11926.0	12079.3	9349.9	5144.5
82.5°	327.8	330.7	410.7	645.0	1368.1	2983.9	2831.6	6502.9	6336.1	2622.4	1285.2
85°	188.0	187.0	262.2	436.7	878.3	2518.2	2761.2	2798.8	2567.4	789.6	464.7
87.5°	67.5	72.3	140.8	242.0	503.3	1753.7	2342.8	1455.8	1312.1	356.7	210.2
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°	6396.8	6396.8	6396.8	6396.8	6396.8	6396.8	6396.8	6396.8	6396.8	6396.8	6396.8
2.5°	6389.1	6394.9	6388.2	6349.6	6316.8	6263.8	6233.9	6192.5	6179.9	6174.1	6189.6
5°	6413.2	6415.2	6358.3	6257.1	6143.3	6009.3	5912.9	5794.3	5738.4	5714.3	5729.7
7.5°	6435.4	6426.7	6302.4	6108.6	5898.4	5665.1	5457.8	5267.9	5157.0	5111.7	5115.6
10°	6438.3	6401.7	6202.1	5902.3	5576.4	5234.1	4916.0	4622.9	4437.8	4317.3	4353.9
12.5°	6408.4	6346.7	6054.6	5635.2	5183.0	4716.4	4286.4	3846.8	3582.6	3460.2	3464.0
15°	6385.3	6273.4	5873.3	5320.9	4713.5	4095.5	3508.4	2991.6	2710.1	2584.8	2526.0
17.5°	6366.0	6194.4	5663.2	4967.1	4159.2	3375.3	2669.6	2208.8	2054.5	2017.9	2002.4
20°	6339.0	6110.5	5428.9	4557.3	3527.7	2569.3	1949.4	1721.9	1722.9	1765.3	1771.1
22.5°	6301.4	6015.1	5179.2	4097.5	2849.9	1871.3	1528.1	1462.5	1529.1	1610.1	1624.5
25°	6245.5	5902.3	4901.5	3589.4	2173.1	1438.4	1305.4	1302.5	1383.5	1468.3	1480.9
27.5°	6166.4	5754.8	4593.0	3043.7	1601.4	1222.5	1169.5	1189.7	1249.5	1311.2	1316.0
30°	6060.4	5583.1	4252.7	2468.1	1255.3	1088.5	1082.7	1101.0	1137.6	1181.0	1184.9
32.5°	5943.7	5408.6	3889.2	1910.9	1075.0	1016.2	1022.0	1030.6	1048.0	1065.3	1069.2
35°	5837.7	5230.3	3517.1	1451.9	989.2	968.9	965.1	963.1	965.1	959.3	960.3
37.5°	5769.2	5082.8	3129.5	1156.0	940.0	927.5	915.9	901.4	885.0	875.4	877.3
40°	5744.1	4972.9	2737.1	998.8	899.5	890.8	868.7	837.8	818.5	812.7	812.7
42.5°	5811.6	4916.0	2358.2	919.8	865.8	851.3	814.7	779.0	764.5	763.6	762.6
45°	6018.0	4939.1	1997.6	876.4	834.9	807.0	758.8	728.9	719.2	721.2	720.2
47.5°	6388.2	5084.7	1689.1	847.4	804.1	767.4	713.4	689.3	677.8	677.8	678.7
50°	7017.7	5425.0	1443.3	823.3	778.0	730.8	680.7	650.8	635.3	634.4	634.4
52.5°	7934.6	6034.3	1290.0	803.1	749.1	698.0	647.9	610.3	592.0	588.1	586.2
55°	9083.8	6907.8	1247.6	789.6	710.5	662.3	608.4	570.8	550.5	541.8	540.9
57.5°	10369.0	7970.3	1331.4	773.2	671.0	619.9	565.0	529.3	508.1	497.5	496.5
60°	11669.5	9130.1	1673.7	750.1	638.2	573.6	520.6	487.8	466.6	455.1	453.1
62.5°	12972.1	10352.6	2372.7	748.1	615.1	529.3	475.3	447.3	427.1	414.6	411.7
65°	14441.4	11690.8	3167.1	799.2	607.4	488.8	429.0	406.9	389.5	377.9	377.0
67.5°	16128.5	13201.5	3090.9	904.3	633.4	452.2	385.6	368.3	355.8	346.1	345.2
70°	16920.1	12965.3	1921.5	978.6	670.1	416.5	344.2	331.7	322.0	315.3	312.4
71°	16588.4	12310.7	1611.0	969.9	666.2	401.1	327.8	318.2	308.5	302.7	299.8
72.5°	15684.1	11227.0	1344.0	902.4	622.8	373.1	306.6	296.9	288.3	281.5	279.6
75°	14074.0	10026.7	1075.9	721.2	496.5	315.3	269.0	258.4	251.6	247.8	243.9
77.5°	10345.8	7155.6	832.0	569.8	365.4	257.4	229.5	221.7	215.0	209.2	206.3
80°	3963.4	2771.8	560.1	425.2	268.0	203.4	185.1	181.3	174.5	170.6	170.6
82.5°	1067.3	828.2	298.9	257.4	179.3	148.5	141.7	139.8	134.0	126.3	127.3
85°	431.9	365.4	167.8	141.7	109.9	87.7	95.4	96.4	89.7	80.0	81.0
87.5°	189.9	155.2	93.5	62.7	48.2	33.7	43.4	43.4	39.5	32.8	29.9
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)