

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: P319337

Luminaire Tested: **GAN-SA3D-730-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319337  
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-SA3D-730-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 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: 21134 lumens  
Efficiency: N/A  
Efficacy: 110.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

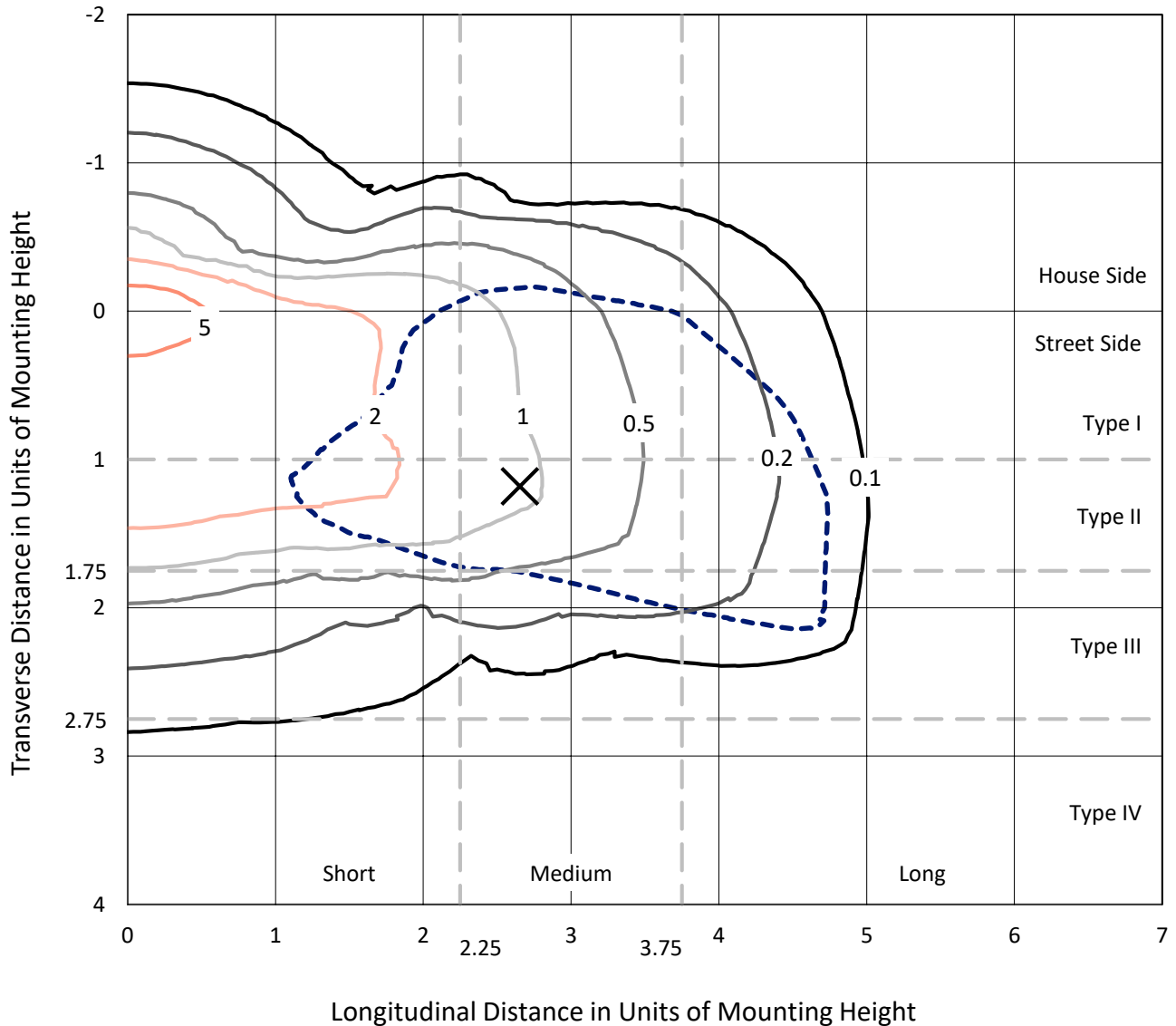
Input Watts (W): 191  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

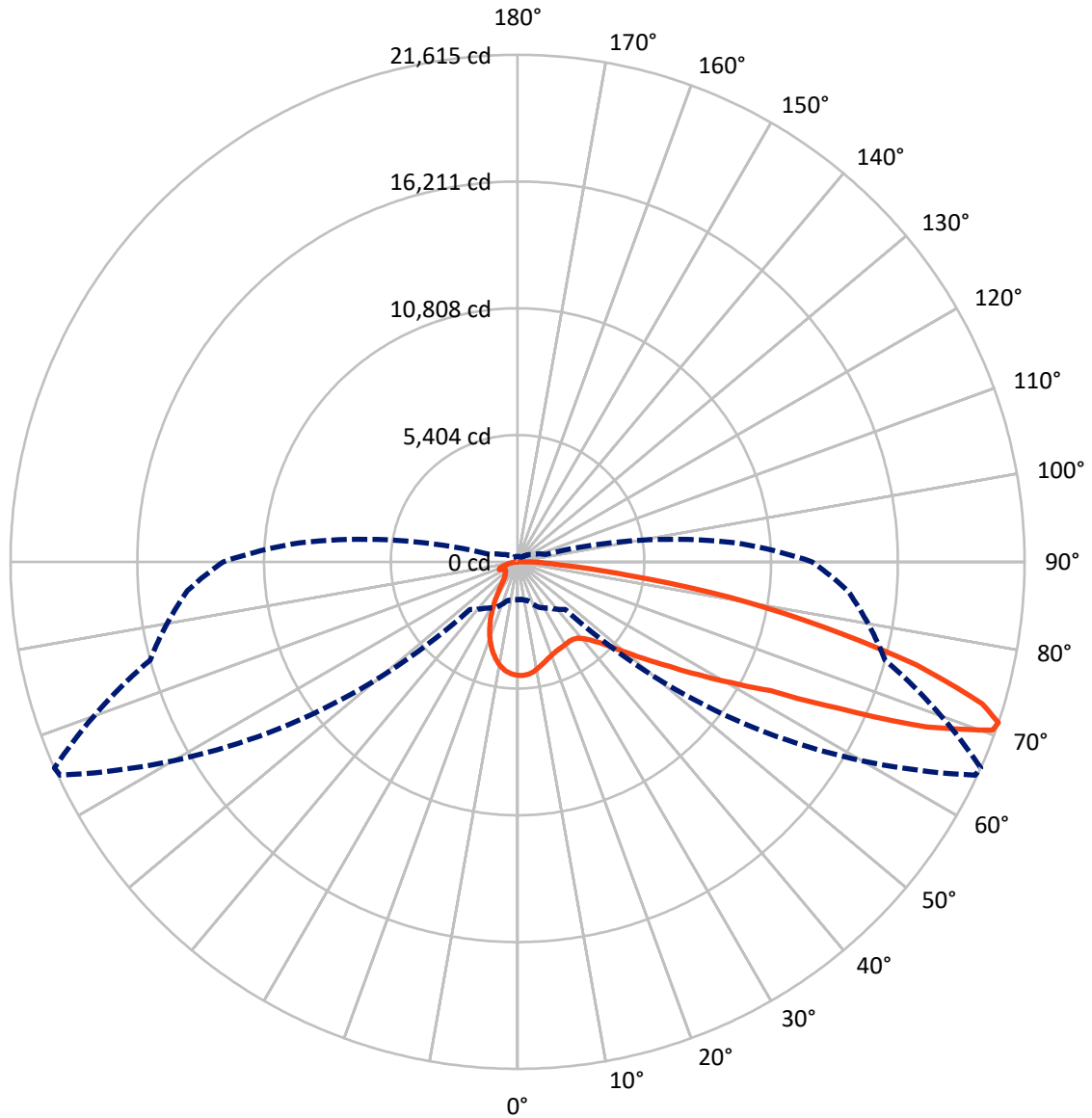
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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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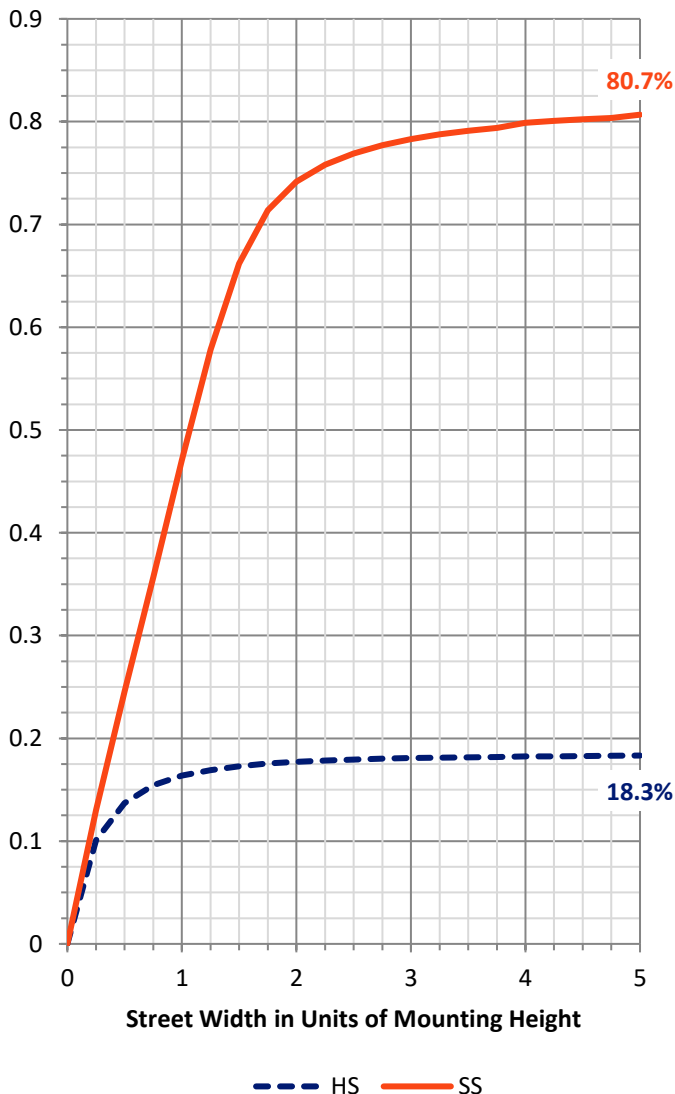
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3916.7	0.0	3916.7
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	17217.3	0.0	17217.3
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	21134.0	0.0	21134.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	426.2	2.0
10°-20°	1022.1	4.8
20°-30°	1373.0	6.5
30°-40°	1806.1	8.5
40°-50°	2627.4	12.4
50°-60°	4104.3	19.4
60°-70°	5141.3	24.3
70°-80°	3921.6	18.6
80°-90°	712.1	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°	21134.0	100.0
0°-180°	21134.0	100.0

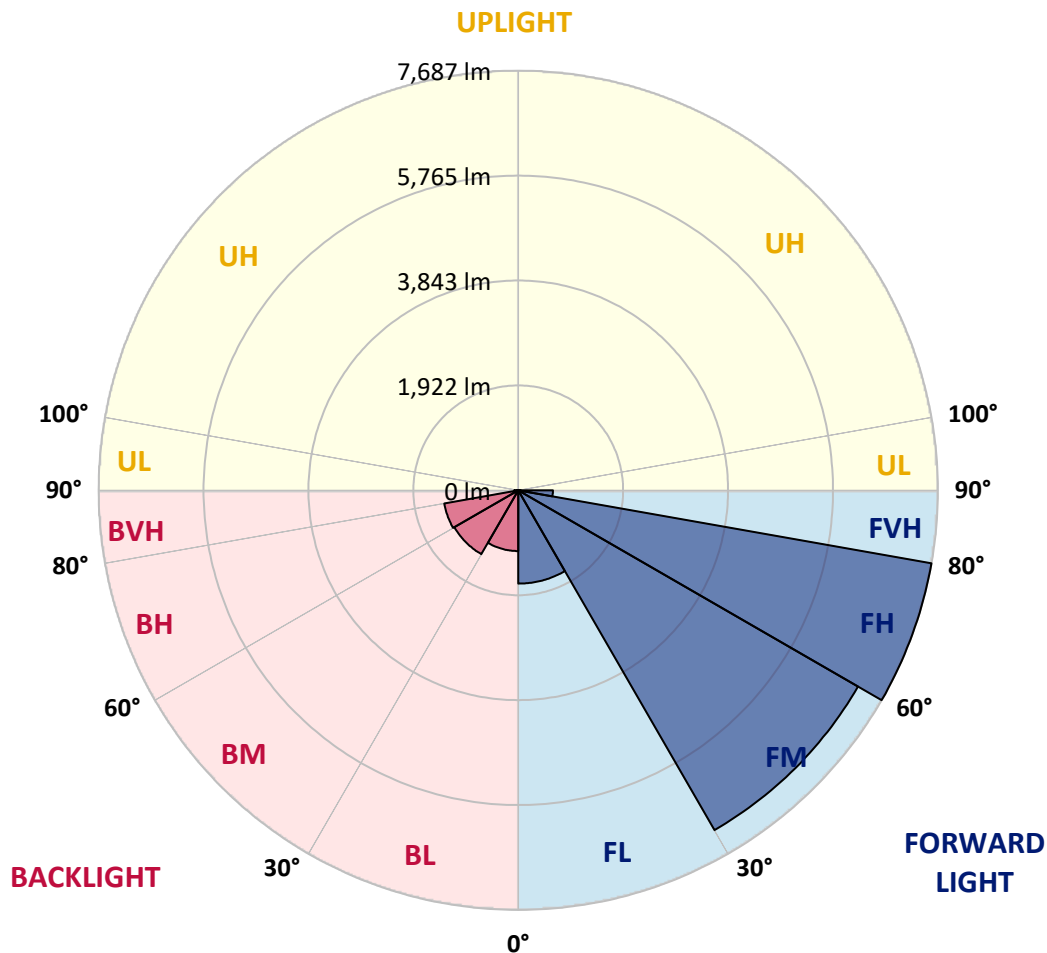


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1709.0	8.1			
FM (30°-60°)	7186.6	34.0			
FH (60°-80°)	7686.7	36.4			G4/12000
FVH (80°-90°)	635.0	3.0			G4/750
BL (0°-30°)	1112.2	5.3	B3/2500		
BM (30°-60°)	1351.1	6.4	B2/2500		
BH (60°-80°)	1376.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	77.1	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4841.4	4841.4	4841.4	4841.4	4841.4	4841.4	4841.4	4841.4	4841.4	4841.4	4841.4
2.5°	4751.6	4744.3	4766.2	4788.9	4797.6	4812.2	4834.1	4846.5	4845.8	4848.0	4840.7
5°	4436.4	4426.9	4470.7	4506.5	4575.1	4652.4	4746.5	4813.7	4815.1	4853.1	4863.3
7.5°	4138.0	4131.4	4181.8	4239.4	4318.9	4437.2	4589.7	4734.1	4742.9	4845.8	4881.5
10°	3898.7	3897.2	3946.1	4008.8	4101.5	4233.6	4408.7	4620.3	4633.4	4810.7	4884.4
12.5°	3711.9	3714.8	3757.1	3828.6	3926.4	4064.3	4254.0	4492.6	4513.8	4755.3	4867.7
15°	3573.9	3585.6	3619.9	3692.2	3788.5	3928.6	4123.4	4374.4	4406.5	4693.3	4858.2
17.5°	3495.1	3508.3	3532.4	3592.2	3682.7	3817.7	4002.3	4277.4	4306.5	4645.8	4858.9
20°	3471.8	3482.7	3496.6	3533.1	3609.7	3732.3	3906.7	4189.8	4221.2	4607.9	4866.2
22.5°	3517.8	3525.8	3527.2	3524.3	3571.0	3671.0	3837.4	4125.6	4159.1	4583.1	4871.3
25°	3616.3	3627.2	3619.2	3592.2	3576.9	3638.2	3801.6	4083.3	4116.8	4564.8	4861.1
27.5°	3764.4	3765.9	3759.3	3724.3	3652.0	3641.8	3790.7	4058.4	4090.6	4543.7	4839.9
30°	3965.8	3975.3	3963.6	3916.2	3798.0	3700.2	3803.8	4034.4	4063.6	4516.7	4805.6
32.5°	4201.5	4224.8	4224.1	4174.5	4005.2	3830.8	3857.8	4019.8	4042.4	4488.2	4764.0
35°	4445.9	4478.0	4537.8	4516.7	4307.3	4037.3	3961.4	4043.1	4058.4	4484.6	4734.9
37.5°	4699.8	4731.9	4855.3	4912.2	4667.0	4332.8	4124.8	4125.6	4132.9	4529.1	4732.7
40°	4965.4	4999.7	5185.1	5333.2	5133.3	4707.1	4388.3	4297.8	4289.8	4638.5	4775.7
42.5°	5337.6	5368.2	5590.8	5779.8	5650.6	5186.5	4752.4	4563.4	4546.6	4853.1	4913.6
45°	5808.2	5834.5	6070.9	6273.0	6206.6	5733.8	5209.9	4929.0	4926.0	5210.6	5193.1
47.5°	6367.9	6388.3	6600.6	6796.2	6820.3	6363.5	5784.9	5493.0	5445.6	5700.9	5625.8
50°	6950.9	6973.5	7118.0	7328.1	7506.9	7206.3	6524.7	6184.0	6120.5	6348.2	6238.7
52.5°	7336.9	7366.8	7492.3	7758.6	8278.9	8130.0	7399.6	7021.7	6925.3	7132.6	7048.7
55°	7164.7	7231.8	7423.7	7850.6	8896.2	9541.2	8478.8	7998.7	7890.0	8062.2	8012.6
57.5°	6381.7	6473.7	6735.6	7394.5	8983.0	10784.6	10110.4	9149.4	9072.8	9023.2	9045.8
60°	4950.8	5039.1	5363.8	6222.7	8378.1	11692.3	12565.7	10567.9	10457.0	9987.8	10008.2
62.5°	3503.9	3459.4	3681.9	4310.2	6807.9	11798.8	15359.6	12465.0	12100.2	11006.4	10916.7
65°	2672.1	2661.9	2761.8	2961.7	4123.4	10524.1	17024.0	15653.7	15083.8	12204.5	11992.9
67.5°	2195.6	2177.3	2275.9	2567.0	2655.3	6789.6	17060.5	19353.2	18793.5	13696.0	13237.8
70°	1805.2	1784.8	1876.7	2252.5	2453.9	3443.3	14358.5	21519.6	21489.6	15584.4	14177.6
71°	1618.4	1603.8	1714.0	2131.4	2410.8	2869.8	12397.2	21525.4	21615.1	16223.6	14122.1
72.5°	1317.8	1322.9	1439.6	1897.2	2378.7	2534.2	9111.4	20522.1	20711.8	16832.9	13617.9
75°	875.6	880.0	1033.2	1459.3	2306.5	2479.4	5007.8	17220.3	17569.1	16468.0	12426.4
77.5°	588.1	586.7	691.0	1001.1	2009.5	2479.4	2936.2	12879.5	13262.6	13103.5	9579.9
80°	405.0	402.1	475.7	691.0	1521.4	2509.4	2270.0	9026.1	9142.1	7076.4	3893.5
82.5°	248.1	250.3	310.8	488.2	1035.4	2258.3	2143.1	4921.7	4795.4	1984.7	972.7
85°	142.3	141.6	198.5	330.5	664.7	1905.9	2089.8	2118.2	1943.1	597.6	351.7
87.5°	51.1	54.7	106.5	183.1	380.9	1327.3	1773.1	1101.8	993.1	270.0	159.1
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°	4841.4	4841.4	4841.4	4841.4	4841.4	4841.4	4841.4	4841.4	4841.4	4841.4	4841.4
2.5°	4835.6	4839.9	4834.8	4805.6	4780.8	4740.7	4718.1	4686.7	4677.2	4672.8	4684.5
5°	4853.8	4855.3	4812.2	4735.6	4649.5	4548.1	4475.1	4385.3	4343.0	4324.8	4336.5
7.5°	4870.6	4864.0	4769.9	4623.2	4464.1	4287.6	4130.7	3986.9	3903.0	3868.7	3871.7
10°	4872.8	4845.0	4694.0	4467.1	4220.4	3961.4	3720.6	3498.8	3358.7	3267.5	3295.2
12.5°	4850.1	4803.4	4582.4	4264.9	3922.7	3569.6	3244.1	2911.4	2711.5	2618.8	2621.7
15°	4832.6	4748.0	4445.2	4027.1	3567.4	3099.7	2655.3	2264.2	2051.1	1956.3	1911.7
17.5°	4818.0	4688.2	4286.1	3759.3	3147.8	2554.6	2020.5	1671.7	1554.9	1527.2	1515.5
20°	4797.6	4624.7	4108.8	3449.2	2669.9	1944.6	1475.4	1303.2	1303.9	1336.0	1340.4
22.5°	4769.2	4552.4	3919.8	3101.1	2156.9	1416.3	1156.5	1106.9	1157.3	1218.6	1229.5
25°	4726.8	4467.1	3709.7	2716.6	1644.7	1088.7	988.0	985.8	1047.1	1111.3	1120.8
27.5°	4667.0	4355.4	3476.2	2303.6	1212.0	925.2	885.1	900.4	945.7	992.4	996.0
30°	4586.7	4225.5	3218.6	1868.0	950.0	823.8	819.4	833.3	861.0	893.9	896.8
32.5°	4498.4	4093.5	2943.5	1446.2	813.6	769.1	773.5	780.0	793.2	806.3	809.2
35°	4418.2	3958.5	2661.9	1098.9	748.6	733.3	730.4	728.9	730.4	726.0	726.8
37.5°	4366.4	3846.8	2368.5	874.9	711.4	701.9	693.2	682.2	669.8	662.5	664.0
40°	4347.4	3763.7	2071.5	755.9	680.8	674.2	657.4	634.1	619.5	615.1	615.1
42.5°	4398.5	3720.6	1784.8	696.1	655.2	644.3	616.6	589.6	578.6	577.9	577.2
45°	4554.6	3738.1	1511.9	663.3	631.9	610.7	574.3	551.6	544.3	545.8	545.1
47.5°	4834.8	3848.3	1278.4	641.4	608.5	580.8	540.0	521.7	513.0	513.0	513.7
50°	5311.3	4105.9	1092.3	623.1	588.8	553.1	515.2	492.5	480.9	480.1	480.1
52.5°	6005.2	4567.0	976.3	607.8	567.0	528.3	490.3	461.9	448.0	445.1	443.6
55°	6875.0	5228.1	944.2	597.6	537.8	501.3	460.4	432.0	416.6	410.1	409.3
57.5°	7847.6	6032.2	1007.7	585.2	507.9	469.2	427.6	400.6	384.5	376.5	375.8
60°	8832.0	6910.0	1266.7	567.7	483.0	434.2	394.0	369.2	353.2	344.4	342.9
62.5°	9817.8	7835.2	1795.7	566.2	465.5	400.6	359.7	338.6	323.2	313.8	311.6
65°	10929.8	8848.0	2397.0	604.9	459.7	369.9	324.7	307.9	294.8	286.0	285.3
67.5°	12206.7	9991.4	2339.3	684.4	479.4	342.2	291.9	278.7	269.2	262.0	261.2
70°	12805.8	9812.7	1454.2	740.6	507.1	315.2	260.5	251.0	243.7	238.6	236.4
71°	12554.8	9317.2	1219.3	734.1	504.2	303.5	248.1	240.8	233.5	229.1	226.9
72.5°	11870.3	8497.1	1017.2	683.0	471.4	282.4	232.0	224.7	218.2	213.1	211.6
75°	10651.8	7588.6	814.3	545.8	375.8	238.6	203.6	195.6	190.4	187.5	184.6
77.5°	7830.1	5415.6	629.7	431.2	276.5	194.8	173.7	167.8	162.7	158.3	156.2
80°	2999.7	2097.8	423.9	321.8	202.8	154.0	140.1	137.2	132.1	129.2	129.2
82.5°	807.7	626.8	226.2	194.8	135.7	112.4	107.3	105.8	101.4	95.6	96.3
85°	326.9	276.5	127.0	107.3	83.2	66.4	72.2	73.0	67.9	60.6	61.3
87.5°	143.7	117.5	70.8	47.4	36.5	25.5	32.8	32.8	29.9	24.8	22.6
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)