

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: P320954

Luminaire Tested: **GAN-SA0A-740-U-AFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320954  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA0A-740-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47322 lumens  
Efficiency: N/A  
Efficacy: 146.5 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

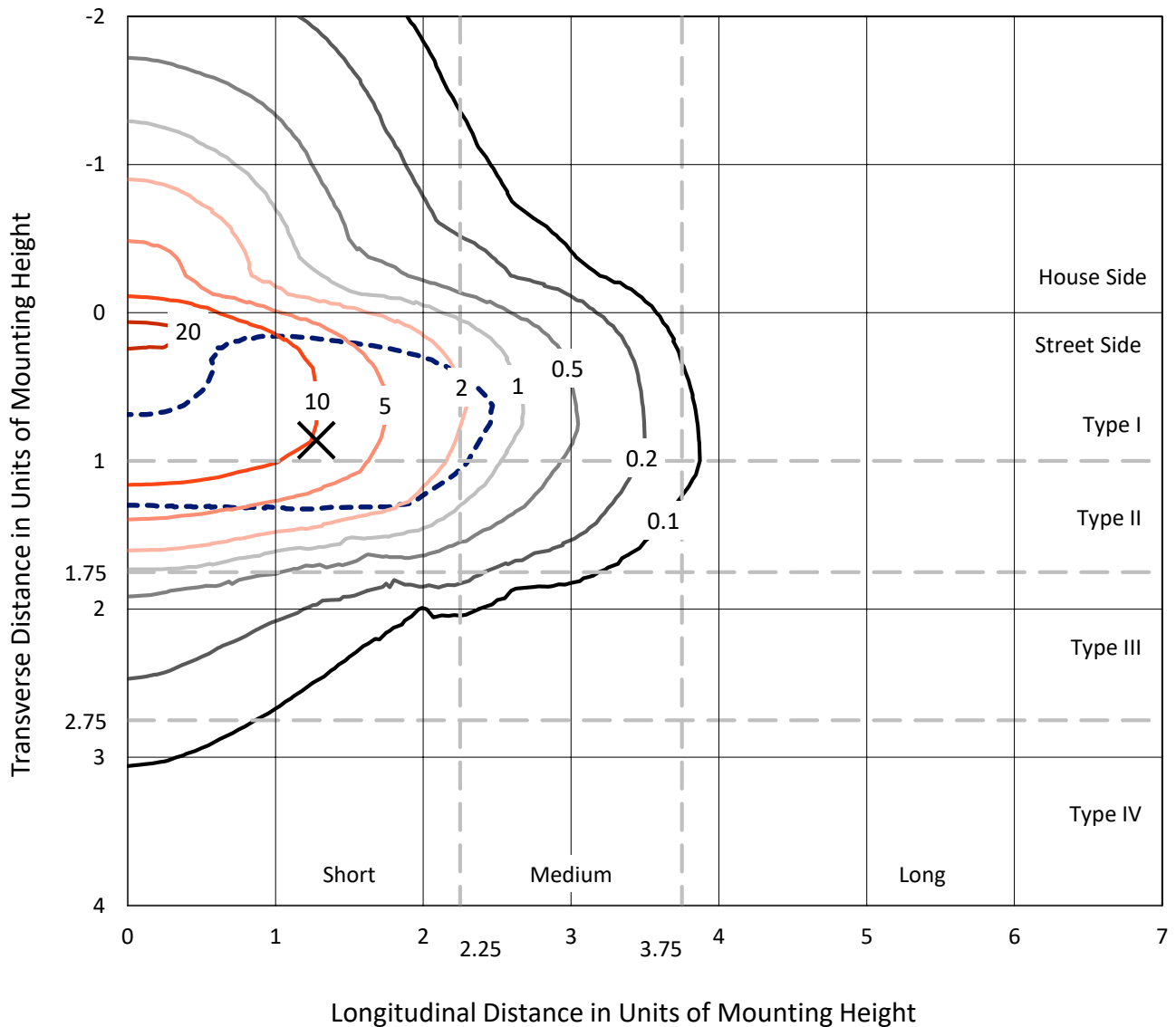
Input Watts (W): 323  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

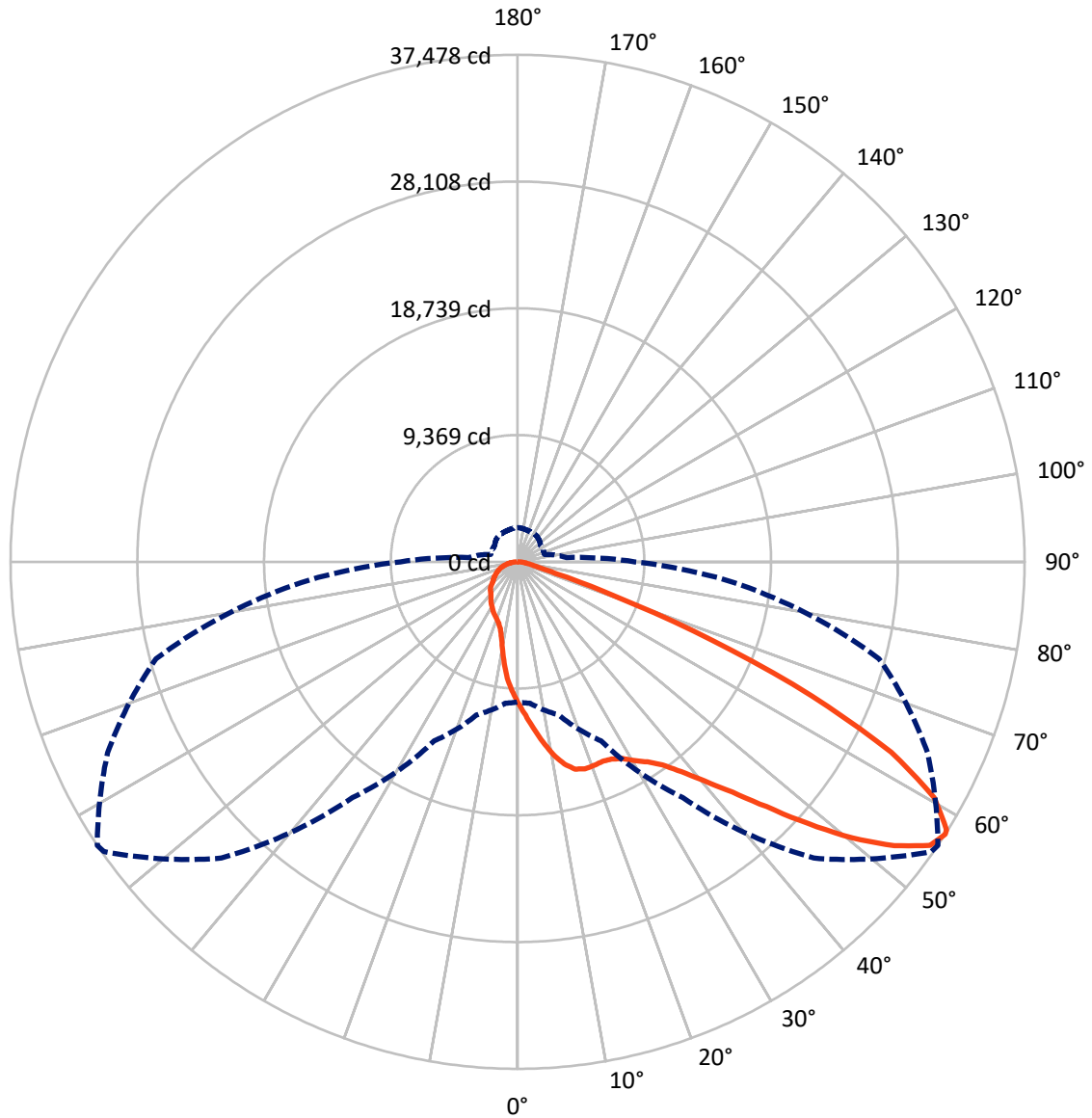
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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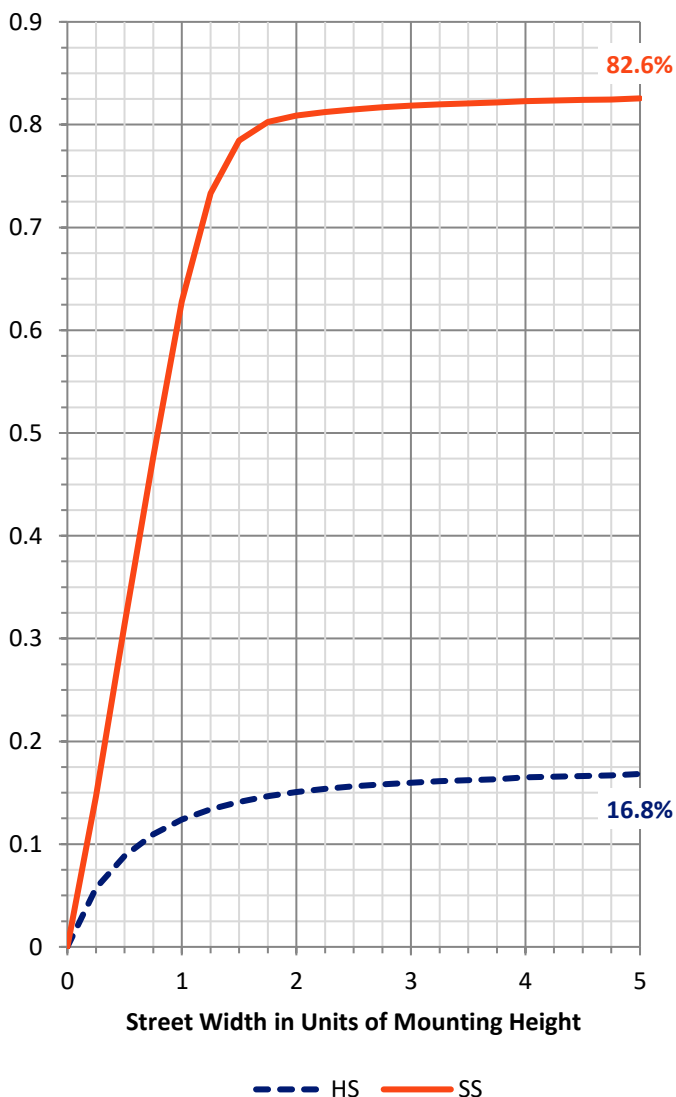
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8157.3	0.0	8157.3
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	39164.7	0.0	39164.7
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	47322.0	0.0	47322.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1002.6	2.1
10°-20°	2834.7	6.0
20°-30°	4617.2	9.8
30°-40°	6902.1	14.6
40°-50°	10469.1	22.1
50°-60°	11734.0	24.8
60°-70°	6930.6	14.6
70°-80°	2270.7	4.8
80°-90°	561.0	1.2
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°	47322.0	100.0
0°-180°	47322.0	100.0

**Coefficient of Utilization**



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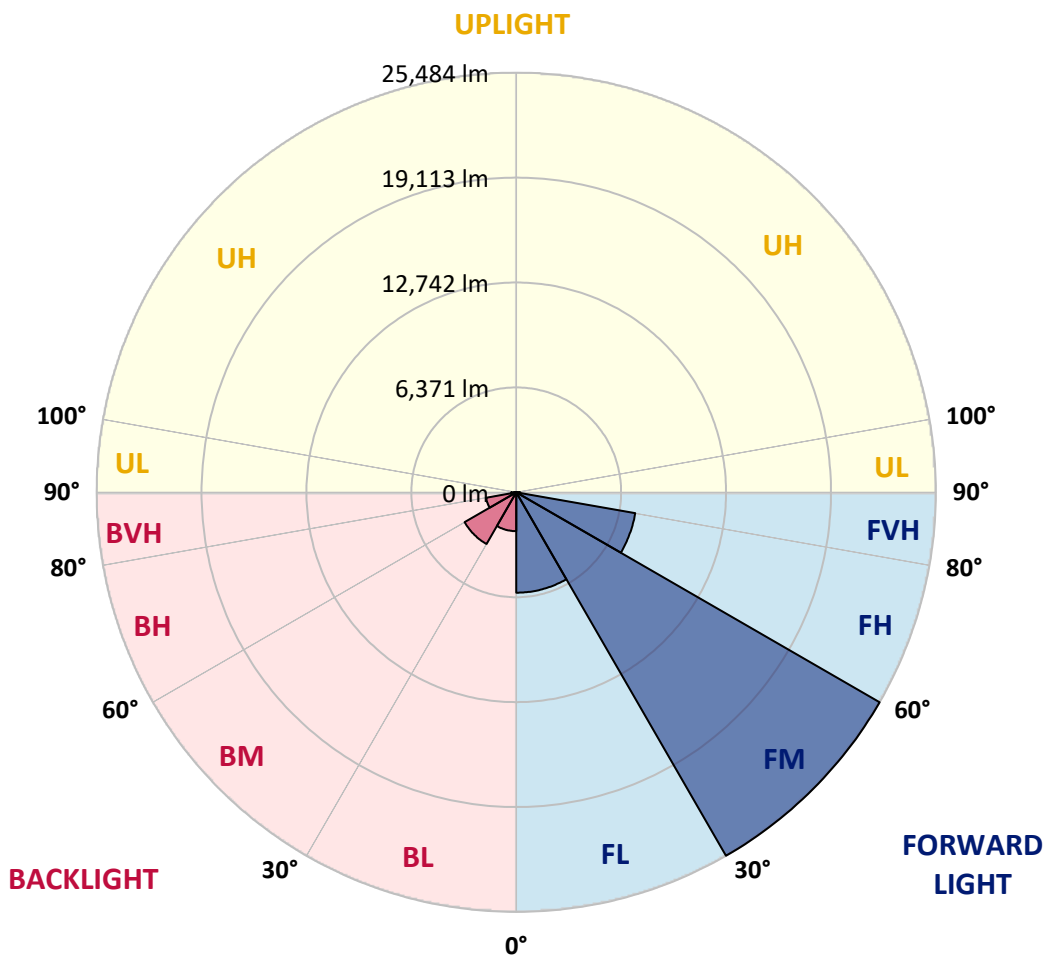
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6095.8	12.9			
FM (30°-60°)	25484.5	53.9			
FH (60°-80°)	7337.4	15.5			G3/7500
FVH (80°-90°)	247.0	0.5			G3/500
BL (0°-30°)	2358.7	5.0	B3/2500		
BM (30°-60°)	3620.8	7.7	B3/5000		
BH (60°-80°)	1863.8	3.9	B3/2500		G3/2500
BVH (80°-90°)	314.0	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	10496.1	10496.1	10496.1	10496.1	10496.1	10496.1	10496.1	10496.1	10496.1	10496.1	10496.1
2.5°	12052.4	12163.0	12114.2	11945.1	11815.0	11631.2	11426.3	11364.5	11148.2	10905.9	10614.8
5°	13960.1	13904.8	13825.1	13561.6	13283.5	12959.9	12446.0	12364.7	11883.3	11335.2	10756.3
7.5°	15046.4	15041.5	14994.4	14839.9	14586.2	14163.3	13543.7	13447.8	12720.8	11839.4	10941.7
10°	14888.7	14877.3	14955.3	15116.3	15192.8	15105.0	14582.9	14487.0	13594.1	12397.2	11156.3
12.5°	13992.6	13999.1	14124.3	14462.6	14922.8	15475.8	15391.2	15344.0	14500.0	13028.2	11416.5
15°	13294.9	13309.5	13408.7	13703.1	14246.3	15249.7	15882.3	15898.6	15376.6	13724.2	11720.7
17.5°	12989.2	13020.1	13065.6	13272.1	13769.8	14799.2	15999.4	16087.2	16144.2	14446.3	12013.4
20°	13086.7	13116.0	13129.0	13260.8	13669.0	14526.0	15918.1	16075.9	16732.9	15126.1	12306.1
22.5°	13524.2	13542.1	13550.2	13584.4	13901.5	14604.1	15864.4	16030.3	17159.0	15736.0	12527.3
25°	14249.5	14236.5	14184.5	14140.6	14353.6	14913.1	15988.0	16145.8	17505.4	16288.9	12672.0
27.5°	15118.0	15101.7	15000.9	14880.5	15002.5	15394.4	16344.2	16469.4	17816.0	16806.1	12745.2
30°	16160.4	16118.1	15927.9	15784.8	15831.9	16116.5	16931.3	17045.1	18295.7	17393.2	12816.8
32.5°	17365.5	17320.0	17045.1	16807.7	16807.7	17045.1	17536.3	17630.6	18702.3	18056.7	12932.2
35°	18874.7	18817.8	18460.0	18061.6	17949.3	18069.7	18360.8	18427.5	19434.1	18892.6	13142.0
37.5°	20653.9	20577.4	20113.9	19580.5	19334.9	19328.4	19538.2	19674.8	20603.4	19990.3	13498.2
40°	22437.9	22384.2	21979.3	21559.7	21078.3	20923.8	21247.5	21289.7	22132.2	21353.2	13953.6
42.5°	23817.0	23807.2	23732.4	23787.7	23294.9	22982.7	23236.4	23270.6	23999.1	22828.2	14438.2
45°	24545.6	24561.8	24924.5	25727.9	25910.0	25682.3	25807.6	25817.3	26132.8	24316.3	14882.2
47.5°	23961.7	24046.3	24963.5	26760.6	28251.9	29008.1	28799.9	28920.3	28201.5	25594.5	15230.2
50°	21686.6	21790.6	23351.9	26300.3	29344.7	32226.5	32117.6	32089.9	29870.0	26531.3	15418.8
52.5°	18868.2	18949.5	20237.5	23908.1	28543.0	34005.7	35005.8	34862.7	31353.2	27232.2	15454.6
55°	14576.4	14703.3	15937.6	19133.3	25300.2	33325.9	37129.8	37001.3	32704.7	27599.7	15412.3
57°	10362.7	10496.1	11722.3	14602.4	21283.2	30972.7	37341.2	37477.8	33434.9	27661.5	15459.5
57.5°	9247.1	9383.7	10598.5	13395.7	20031.0	30122.1	37159.1	37386.7	33566.6	27651.8	15485.5
60°	4656.1	4708.1	5482.2	7477.7	12662.3	24352.0	34783.0	35370.1	33685.3	27173.6	15597.7
62.5°	2894.8	2857.4	2833.0	3444.5	6160.4	16149.0	29879.8	31010.1	31413.4	26015.7	15326.1
65°	2545.1	2475.2	2206.9	2158.1	2720.8	7843.6	22501.3	23908.1	26558.9	24191.0	14678.9
67.5°	2390.6	2322.3	2019.8	1837.7	1839.3	3109.5	13969.8	15553.8	20689.6	21106.0	13151.8
70°	2231.3	2169.5	1886.5	1671.8	1566.1	1722.2	6427.1	7628.9	13486.8	16589.8	10992.1
72.5°	2026.4	1984.1	1715.7	1494.6	1382.3	1289.6	2460.6	2906.2	7807.8	11141.7	7633.8
75°	1811.7	1772.7	1543.3	1331.9	1195.3	1014.8	1385.6	1492.9	3966.5	5700.1	3758.4
77.5°	1575.9	1553.1	1372.6	1177.4	1068.5	840.8	980.7	1032.7	1701.1	2444.3	1884.9
80°	1253.9	1297.8	1200.2	1049.0	948.1	673.3	694.4	728.6	990.4	1193.7	1070.1
82.5°	816.4	892.8	940.0	852.2	780.6	530.2	499.3	513.9	645.6	728.6	465.1
85°	339.9	382.2	618.0	557.8	518.8	387.1	335.0	341.5	400.1	414.7	190.3
87.5°	151.2	161.0	271.6	255.3	219.5	133.4	143.1	156.1	213.0	201.7	73.2
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°	10496.1	10496.1	10496.1	10496.1	10496.1	10496.1	10496.1	10496.1	10496.1	10496.1	10496.1
2.5°	10505.8	10369.2	10135.0	9876.4	9665.0	9495.9	9325.1	9208.0	9071.4	8998.3	8960.8
5°	10514.0	10245.6	9752.8	9247.1	8795.0	8381.9	7988.3	7685.8	7402.9	7250.0	7207.7
7.5°	10548.1	10144.8	9347.9	8515.2	7711.9	6978.4	6412.5	6057.9	5802.6	5688.8	5656.2
10°	10575.8	10026.1	8847.0	7614.3	6521.4	5778.2	5339.1	5140.7	5052.9	5038.2	5023.6
12.5°	10640.8	9904.1	8320.1	6674.3	5596.1	5082.1	4929.3	4916.3	4940.7	4976.4	4976.4
15°	10743.3	9783.7	7718.4	5867.6	5007.3	4826.8	4857.7	4929.3	4996.0	5051.3	5059.4
17.5°	10818.1	9635.8	7071.1	5222.0	4693.5	4742.3	4852.8	4953.7	5022.0	5075.6	5080.5
20°	10871.7	9406.4	6379.9	4729.2	4512.9	4664.2	4802.4	4891.9	4939.0	4992.7	5000.8
22.5°	10844.1	9099.1	5766.8	4376.3	4366.6	4550.4	4682.1	4789.4	4753.6	4701.6	4735.8
25°	10710.7	8676.2	5135.8	4112.9	4212.1	4397.5	4560.1	4488.6	4368.2	4345.4	4358.5
27.5°	10473.3	8136.3	4552.0	3868.9	4033.2	4256.0	4246.2	4174.7	4132.4	4103.1	4121.0
30°	10218.0	7550.9	4041.3	3655.9	3834.8	4018.6	3981.2	3979.5	3937.2	3890.1	3912.8
32.5°	9965.9	6962.1	3636.4	3480.3	3685.2	3709.6	3790.9	3815.3	3732.3	3633.1	3626.6
35°	9746.3	6405.9	3329.0	3320.9	3504.7	3507.9	3626.6	3592.5	3385.9	3283.5	3283.5
37.5°	9582.1	5851.4	3094.8	3177.8	3267.2	3351.8	3412.0	3270.5	3236.3	3179.4	3177.8
40°	9510.5	5363.5	2948.5	3068.8	3099.7	3207.0	3052.5	3107.8	3124.1	3094.8	3094.8
42.5°	9435.7	4939.0	2821.6	2985.9	2981.0	2966.3	2888.3	2959.8	3024.9	3026.5	3021.6
45°	9360.9	4573.1	2709.4	2808.6	2876.9	2719.2	2733.8	2810.2	2901.3	2933.8	2933.8
47.5°	9278.0	4283.6	2606.9	2621.6	2727.3	2621.6	2610.2	2668.7	2776.1	2828.1	2839.5
50°	9095.8	4023.4	2489.8	2457.3	2486.6	2522.4	2532.1	2559.8	2678.5	2761.4	2781.0
52.5°	8843.8	3790.9	2340.2	2306.1	2306.1	2441.1	2486.6	2494.7	2595.6	2694.8	2714.3
55°	8634.0	3642.9	2185.7	2179.2	2172.7	2354.9	2432.9	2445.9	2515.9	2593.9	2603.7
57°	8648.6	3631.5	2067.0	2073.5	2071.9	2267.0	2382.5	2410.2	2445.9	2512.6	2524.0
57.5°	8656.7	3639.6	2041.0	2044.2	2042.6	2242.7	2367.9	2398.8	2426.4	2496.4	2507.7
60°	8778.7	3660.8	1935.3	1899.5	1907.6	2112.5	2284.9	2324.0	2341.9	2434.6	2449.2
62.5°	8598.2	3566.4	1850.7	1764.5	1764.5	1975.9	2169.5	2231.3	2258.9	2384.1	2408.5
65°	8074.5	3301.4	1751.5	1611.7	1627.9	1839.3	2031.2	2132.1	2174.3	2330.5	2356.5
67.5°	7266.3	2994.0	1645.8	1475.0	1491.3	1696.2	1888.1	1997.1	2063.8	2271.9	2293.1
70°	6214.0	2618.3	1502.7	1330.3	1349.8	1540.1	1719.0	1842.6	1941.8	2216.6	2223.1
72.5°	4581.3	2146.7	1302.7	1170.9	1192.1	1358.0	1548.2	1691.3	1824.7	2078.4	2075.1
75°	2724.0	1678.3	1081.5	1009.9	1024.6	1179.1	1393.7	1567.7	1767.8	2024.7	2055.6
77.5°	1652.3	1263.6	881.4	845.7	863.6	1021.3	1283.1	1468.5	1743.4	1909.3	1899.5
80°	998.5	902.6	704.2	681.4	699.3	873.3	1187.2	1393.7	1523.8	1631.2	1631.2
82.5°	522.0	551.3	517.2	499.3	523.7	709.1	1079.9	1216.5	1346.6	1156.3	1079.9
85°	213.0	287.9	313.9	312.2	326.9	491.1	931.9	1040.8	868.4	824.5	844.0
87.5°	71.6	122.0	152.9	131.7	138.2	309.0	645.6	502.5	596.8	416.3	395.2
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)