

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: P653517

Luminaire Tested: **GLAN-SA7D-840-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P653517  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7D-840-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46371.9 lumens  
Efficiency: N/A  
Efficacy: 107.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

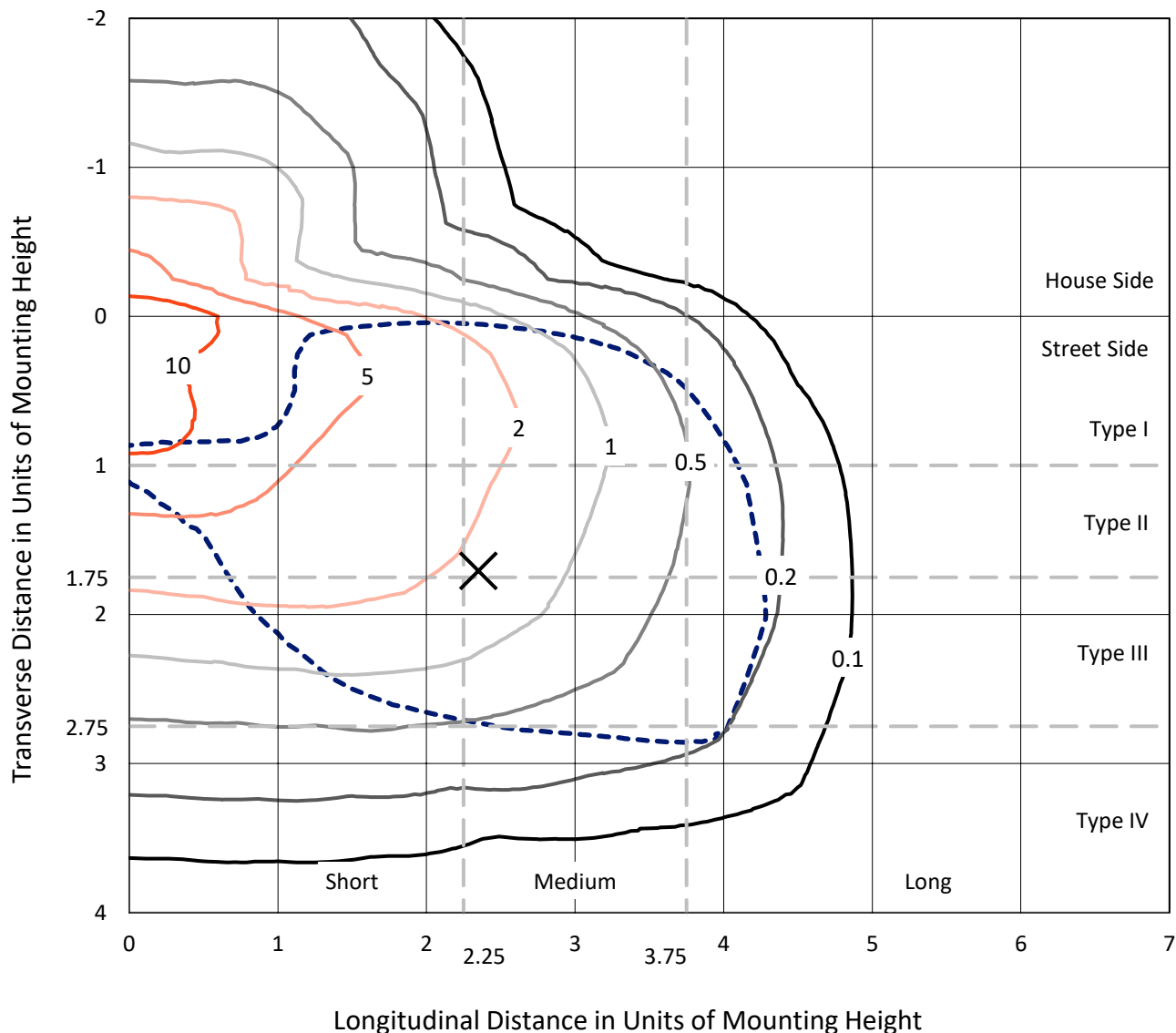
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

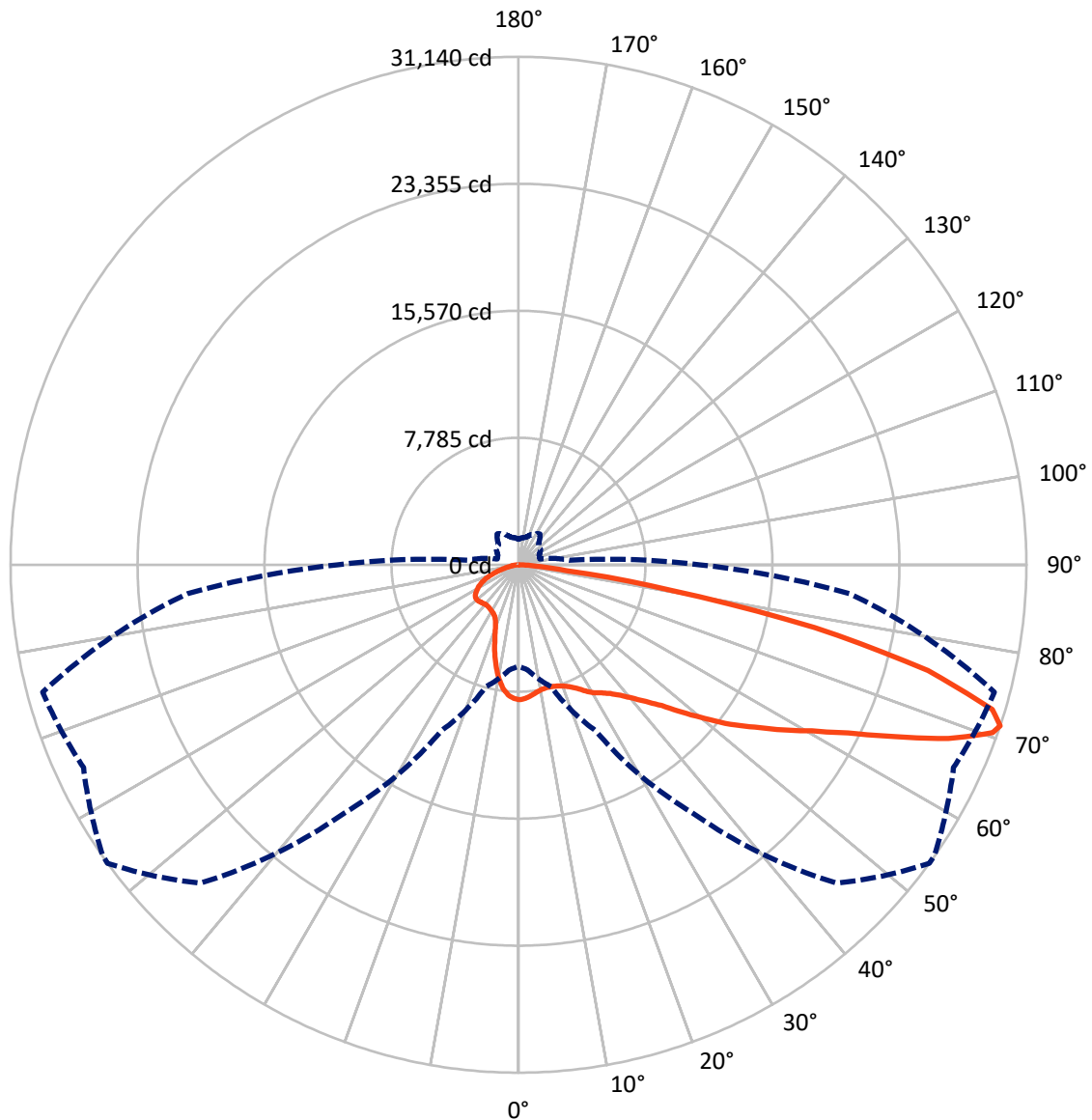
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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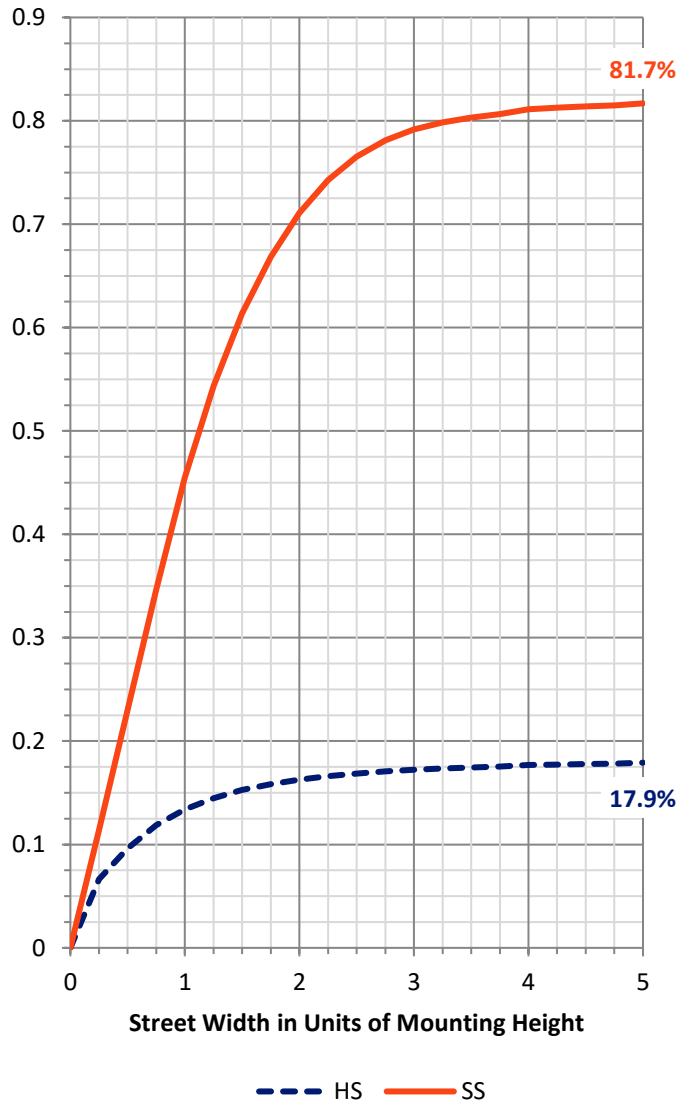
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8372.2	0.0	8372.2
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	37999.7	0.0	37999.7
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	46371.9	0.0	46371.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	737.3	1.6
10°-20°	1946.8	4.2
20°-30°	3241.5	7.0
30°-40°	4793.2	10.3
40°-50°	6751.3	14.6
50°-60°	9040.3	19.5
60°-70°	11394.6	24.6
70°-80°	7782.5	16.8
80°-90°	684.4	1.5
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°	46371.9	100.0
0°-180°	46371.9	100.0

**Coefficient of Utilization**

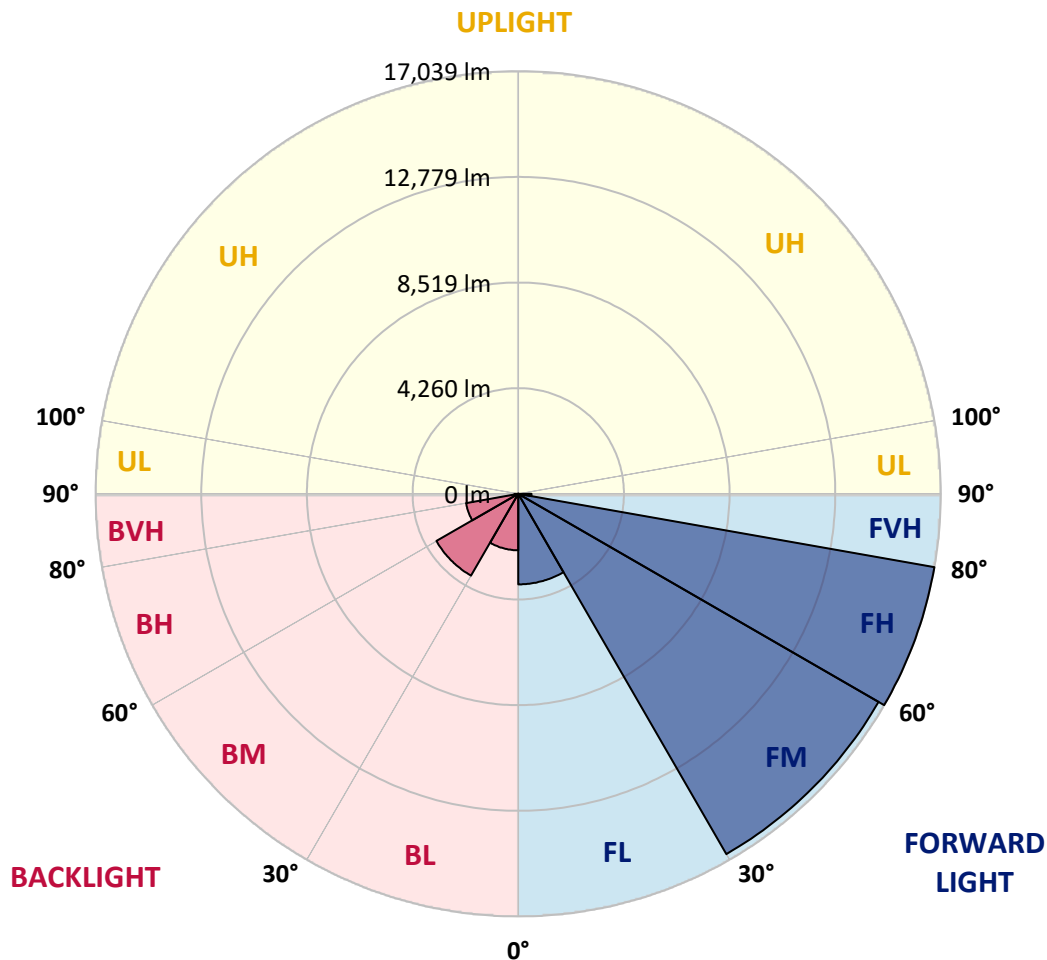


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3650.2	7.9			
FM (30°-60°)	16775.7	36.2			
FH (60°-80°)	17038.9	36.7			G5
FVH (80°-90°)	535.0	1.2			G4/750
BL (0°-30°)	2275.4	4.9	B3/2500		
BM (30°-60°)	3809.1	8.2	B3/5000		
BH (60°-80°)	2138.2	4.6	B3/2500		G3/2500
BVH (80°-90°)	149.4	0.3			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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8273.4	8273.4	8273.4	8273.4	8273.4	8273.4	8273.4	8273.4	8273.4	8273.4	8273.4
2.5°	7992.9	8030.5	8040.5	8065.5	8118.2	8160.7	8203.3	8198.3	8258.4	8283.4	8306.0
5°	7637.2	7647.2	7684.8	7734.9	7827.6	7945.3	8060.6	8063.0	8210.9	8328.5	8386.1
7.5°	7376.7	7409.3	7434.4	7486.9	7584.6	7712.4	7895.2	7910.2	8173.3	8406.2	8528.9
10°	7206.4	7244.0	7271.5	7336.6	7434.4	7577.1	7775.0	7802.5	8145.7	8528.9	8744.4
12.5°	7051.1	7088.6	7113.7	7198.9	7326.6	7502.0	7724.8	7757.5	8155.7	8671.7	8979.8
15°	7146.2	7176.3	7166.3	7191.4	7276.5	7476.9	7744.9	7777.5	8193.3	8809.5	9212.7
17.5°	7569.6	7594.7	7512.0	7416.8	7376.7	7524.5	7807.5	7842.6	8268.5	8952.3	9450.7
20°	8193.3	8260.9	8080.6	7867.6	7674.8	7694.8	7937.8	7975.4	8373.6	9095.0	9693.7
22.5°	9004.8	9055.0	8834.5	8483.8	8128.2	7945.3	8133.1	8155.7	8531.4	9280.4	9959.2
25°	9959.2	9989.2	9683.6	9232.8	8719.3	8373.6	8401.2	8441.3	8791.9	9490.8	10194.6
27.5°	10886.0	10981.2	10628.0	10076.9	9400.6	8824.5	8769.4	8794.4	9075.0	9608.5	10357.4
30°	11985.6	11978.0	11604.9	10966.1	10099.5	9315.4	9117.5	9112.6	9227.8	9666.1	10475.2
32.5°	12862.3	12964.9	12599.3	11902.9	10898.5	9823.9	9358.1	9348.0	9345.5	9766.3	10650.5
35°	13859.2	13874.2	13538.6	12837.2	11762.6	10462.6	9693.7	9643.6	9586.0	9981.7	10888.5
37.5°	14750.9	14821.0	14513.0	13726.5	12611.8	11126.4	10154.6	10122.0	9946.7	10355.0	11269.2
40°	15447.2	15499.9	15314.5	14565.5	13448.4	11842.8	10740.7	10680.5	10467.7	10966.1	11777.7
42.5°	15675.1	15782.9	15855.5	15487.4	14410.3	12692.0	11462.1	11386.9	11224.2	11892.9	12363.8
45°	15692.7	15863.0	16246.3	16263.8	15377.1	13708.9	12303.7	12251.1	12238.6	13080.2	13187.9
47.5°	15559.9	15732.8	16376.5	16724.7	16238.8	14735.9	13518.6	13435.9	13443.4	14548.0	14112.1
50°	15239.3	15444.7	16226.3	17020.2	16912.6	15802.9	14801.0	14773.4	14928.8	16223.7	15071.6
52.5°	14635.7	14883.7	16070.9	17205.6	17413.6	16722.2	16258.8	16181.2	16574.4	18042.2	16121.0
55°	12964.9	13338.2	15502.3	17308.4	17889.4	17601.4	17571.3	17711.6	18232.6	20026.1	17275.7
57.5°	12093.3	12373.8	14267.5	17325.9	18490.6	18623.4	19104.3	19139.4	20051.1	22132.6	18580.8
60°	11617.4	11865.3	13591.1	17210.6	19329.7	19888.3	20672.3	20797.6	21827.1	24414.5	19933.4
62.5°	11201.5	11414.5	13185.4	16812.3	20276.5	21764.4	22703.7	22763.9	23843.4	26934.4	21268.5
65°	10222.2	10465.2	12368.8	16414.1	21093.1	24108.9	25398.9	25328.8	25990.0	29108.5	22105.1
67.5°	8902.2	9210.2	10843.3	15038.9	21496.4	26671.4	28434.8	28347.1	28109.2	30533.8	22345.5
70°	7216.4	7381.7	8892.1	12661.8	19885.8	28016.5	30831.9	30739.2	29421.6	30721.6	21208.3
71°	6209.4	6467.5	7742.4	11246.7	18545.7	27605.7	31140.0	31114.9	29424.2	30203.2	20351.7
72.5°	4846.9	5004.6	6131.8	8714.3	15762.9	25271.2	30378.5	30473.7	28785.4	28762.9	18585.8
75°	3065.9	3136.0	3847.4	5129.8	8649.2	17897.0	25932.4	26190.4	25559.3	23542.9	13821.6
77.5°	1780.9	1871.1	2304.4	3023.3	3737.2	9713.7	18555.7	18836.3	17759.2	12962.5	5658.4
80°	1037.0	1137.2	1517.9	1755.8	1715.8	3604.4	9448.2	9926.6	7689.8	3273.8	1588.1
82.5°	576.1	643.7	1067.1	1069.6	914.3	1177.2	2973.2	3111.0	2194.3	1320.0	648.7
85°	418.3	473.4	688.9	623.7	438.3	505.9	1034.5	1084.6	886.7	556.1	210.4
87.5°	147.8	210.4	378.2	300.6	120.3	105.2	298.1	243.0	225.5	155.3	47.6
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°	8273.4	8273.4	8273.4	8273.4	8273.4	8273.4	8273.4	8273.4	8273.4	8273.4	8273.4
2.5°	8318.5	8323.5	8298.5	8253.4	8208.3	8150.7	8085.5	8035.5	8013.0	8010.4	8007.9
5°	8408.7	8421.2	8326.1	8185.8	8030.5	7840.1	7677.3	7492.0	7444.4	7369.2	7391.7
7.5°	8554.0	8546.5	8358.6	8060.6	7697.3	7294.1	6953.4	6755.5	6550.1	6492.5	6495.0
10°	8761.9	8714.3	8358.6	7805.1	7198.9	6600.3	6124.3	5823.8	5660.9	5525.6	5475.6
12.5°	8982.3	8862.0	8278.5	7446.8	6557.6	5823.8	5312.8	4907.0	4801.8	4691.5	4694.0
15°	9192.7	8992.3	8120.6	6943.4	5866.3	4994.6	4498.7	4255.7	4223.2	4235.7	4233.2
17.5°	9383.0	9085.0	7880.2	6382.3	5059.7	4283.2	4020.2	4037.8	4125.4	4188.1	4195.6
20°	9576.0	9140.1	7522.0	5630.8	4298.3	3852.5	3862.5	4000.2	4132.9	4218.1	4230.7
22.5°	9758.8	9165.1	7101.2	4904.5	3747.2	3669.5	3817.4	3965.1	4095.4	4178.1	4190.5
25°	9879.1	9107.5	6505.1	4145.5	3476.7	3604.4	3759.8	3885.0	3995.2	4080.4	4100.4
27.5°	9911.6	8922.2	5766.1	3531.8	3351.5	3541.8	3684.6	3777.3	3862.5	3942.6	3957.7
30°	9894.0	8649.2	4954.6	3171.1	3278.8	3469.2	3579.4	3647.0	3749.7	3812.3	3824.9
32.5°	9866.5	8331.0	4107.9	2978.2	3218.7	3401.6	3466.7	3526.8	3524.3	3499.2	3516.8
35°	9876.5	7950.3	3421.6	2863.0	3166.1	3351.5	3406.6	3331.5	3116.0	3106.0	3096.0
37.5°	9929.1	7574.6	2923.1	2782.9	3138.5	3343.9	3374.0	3028.4	2838.0	2750.3	2727.8
40°	10064.4	7136.2	2595.0	2722.7	3136.0	3401.6	3226.2	2875.5	2509.8	2339.5	2327.0
42.5°	10244.7	6705.4	2394.6	2685.1	3166.1	3489.2	3166.1	2660.1	2261.9	2161.6	2146.7
45°	10512.8	6212.0	2284.4	2667.7	3211.2	3521.8	3146.1	2502.3	2161.6	2081.5	2081.5
47.5°	10815.8	5741.1	2224.3	2655.1	3268.8	3499.2	2968.2	2452.2	2114.1	2124.1	2171.7
50°	11116.4	5332.8	2179.2	2627.5	3318.9	3486.7	2895.6	2449.7	2126.6	2254.3	2339.5
52.5°	11464.6	5044.7	2124.1	2582.5	3318.9	3406.6	2873.0	2499.8	2161.6	2199.2	2236.8
55°	11885.3	4954.6	2054.0	2484.8	3258.8	3206.1	2860.5	2572.5	2186.7	2099.1	2114.1
57.5°	12441.5	5099.8	1986.4	2362.0	3121.0	2998.2	2855.5	2592.5	2129.1	2056.5	2041.4
60°	13087.7	5387.9	1966.3	2236.8	2933.2	2820.5	2825.4	2534.9	2048.9	1973.8	1986.4
62.5°	13541.1	5560.7	1953.7	2141.6	2727.8	2625.1	2752.8	2464.7	2013.9	1948.8	1961.3
65°	13541.1	5350.3	1838.5	1996.4	2462.3	2389.6	2665.1	2377.1	1968.8	1893.7	1881.1
67.5°	13027.6	4736.6	1663.2	1778.5	2169.2	2121.6	2542.4	2271.9	1901.2	1843.6	1813.5
70°	11690.0	3591.9	1442.8	1523.0	1798.5	1841.0	2384.6	2129.1	1788.5	1718.3	1673.3
71°	11101.4	3128.5	1350.1	1392.7	1655.7	1718.3	2309.5	2068.9	1738.3	1638.2	1558.0
72.5°	9966.7	2635.1	1209.9	1227.4	1415.2	1527.9	2151.6	1953.7	1643.1	1500.4	1410.2
75°	7572.1	1923.7	974.4	964.4	1047.0	1212.3	1821.0	1740.9	1440.3	1247.4	1194.8
77.5°	3271.3	1047.0	728.9	736.4	711.4	919.3	1432.7	1495.4	1234.8	1014.4	966.9
80°	991.9	603.7	498.5	508.5	475.9	616.2	1009.5	1172.3	991.9	789.0	723.9
82.5°	508.5	360.7	340.7	335.6	303.1	348.2	611.2	801.6	708.9	493.4	435.8
85°	220.4	192.8	167.9	162.8	142.8	125.2	217.9	400.7	375.8	275.5	263.0
87.5°	55.1	50.1	32.5	30.0	17.5	2.5	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)