

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: P319699

Luminaire Tested: **GAN-SA5D-740-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319699  
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-SA5D-740-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 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: 38784 lumens  
Efficiency: N/A  
Efficacy: 121.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

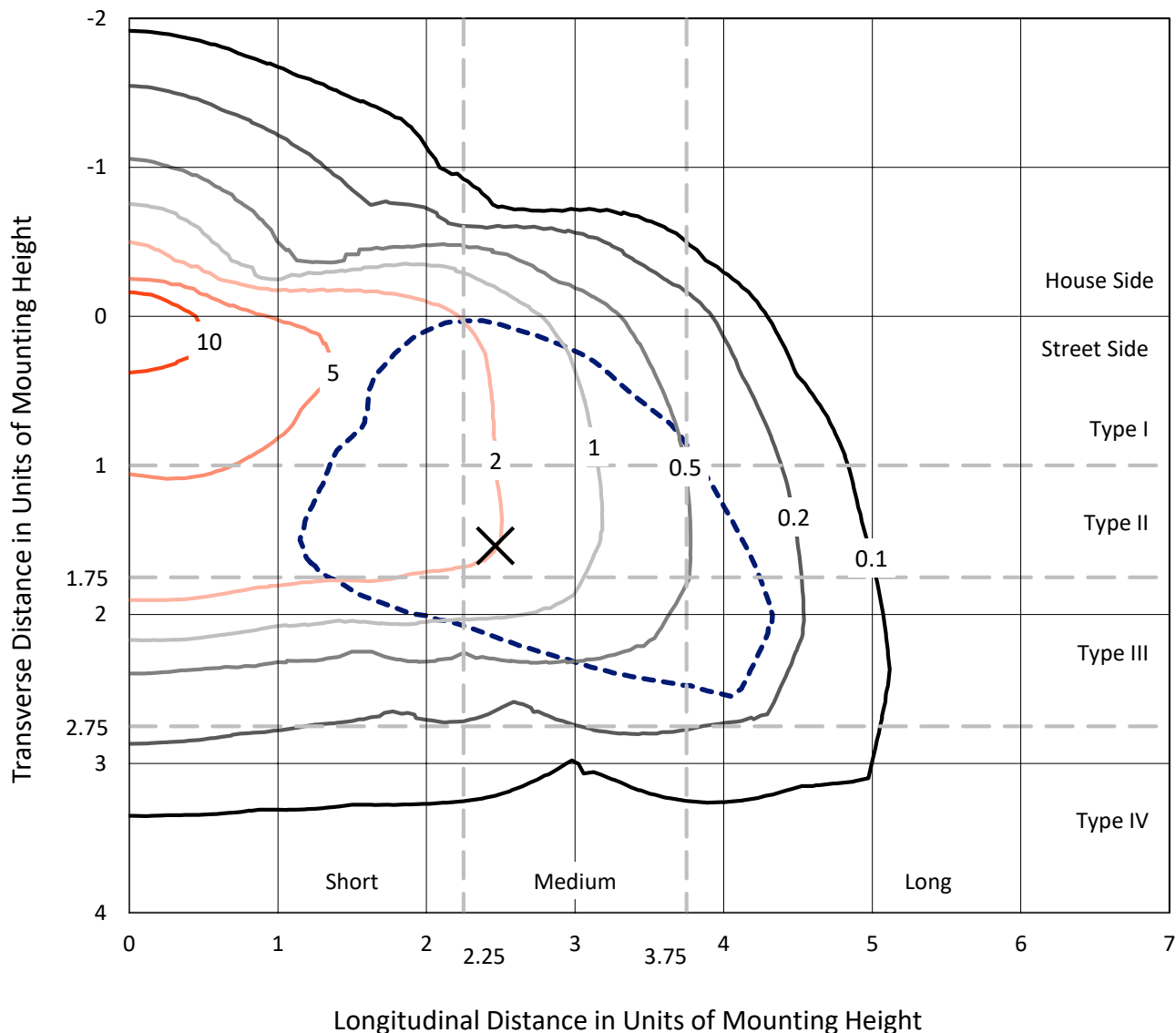
Input Watts (W): 320  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

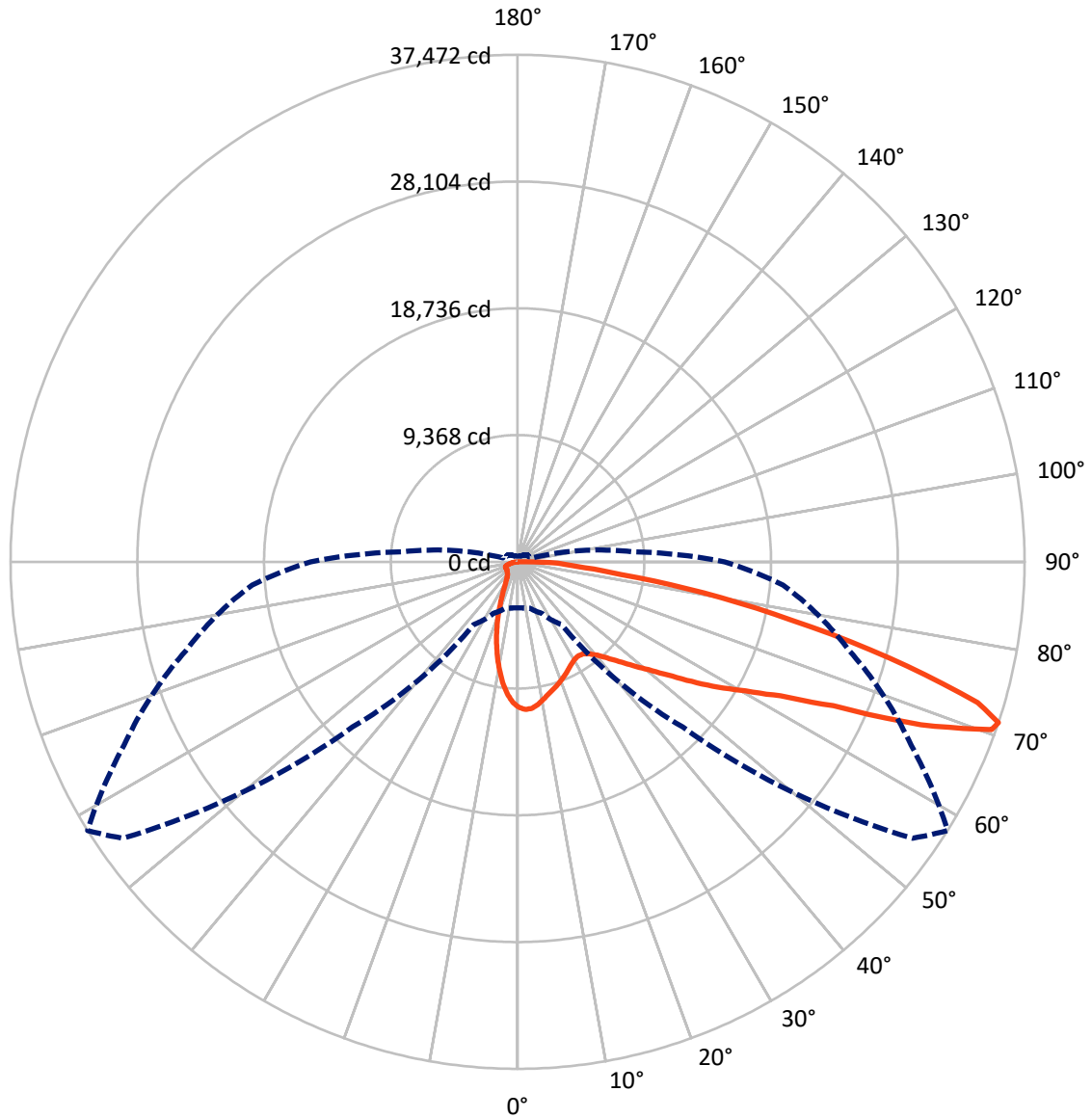
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 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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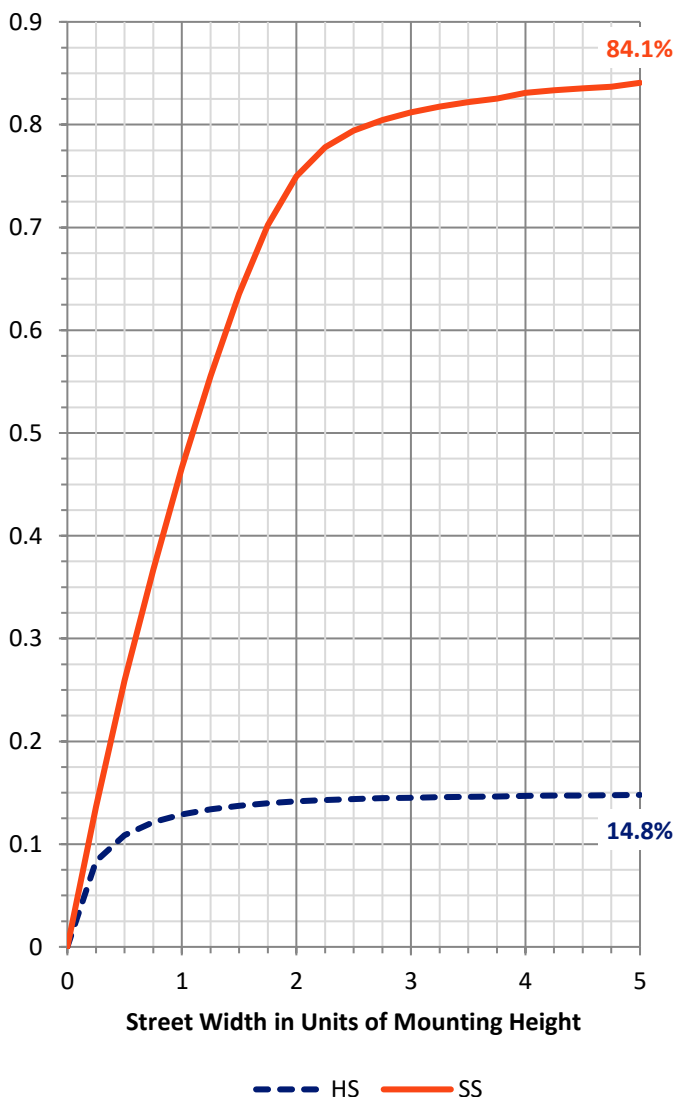
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5798.5	0.0	5798.5
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	32985.5	0.0	32985.5
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	38784.0	0.0	38784.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	927.0	2.4
10°-20°	2061.4	5.3
20°-30°	2619.8	6.8
30°-40°	3337.1	8.6
40°-50°	4732.2	12.2
50°-60°	7323.2	18.9
60°-70°	9969.6	25.7
70°-80°	6650.9	17.1
80°-90°	1162.8	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°	38784.0	100.0
0°-180°	38784.0	100.0

**Coefficient of Utilization**

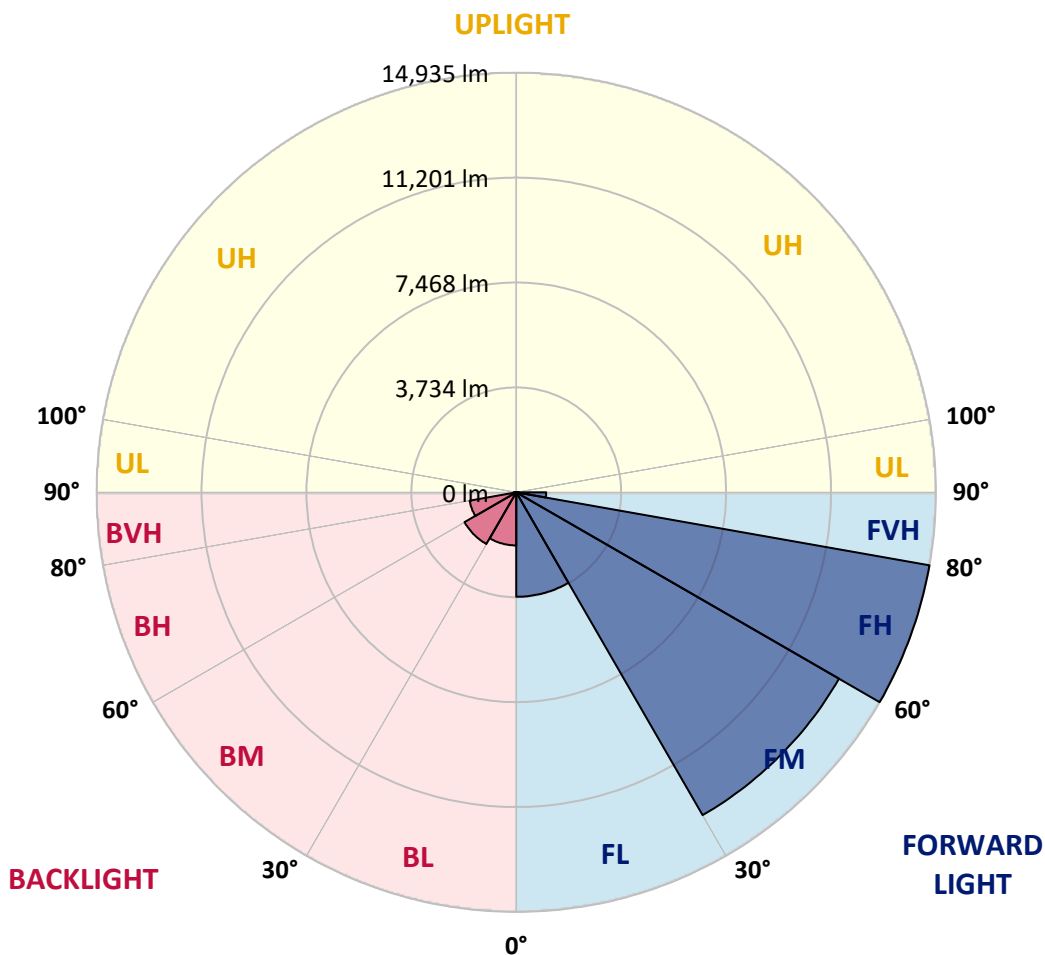


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3718.1	9.6			
FM (30°-60°)	13266.0	34.2			
FH (60°-80°)	14935.2	38.5			G5
FVH (80°-90°)	1066.2	2.7			G5
BL (0°-30°)	1890.1	4.9	B3/2500		
BM (30°-60°)	2126.5	5.5	B2/2500		
BH (60°-80°)	1685.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	96.6	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°	10745.8	10745.8	10745.8	10745.8	10745.8	10745.8	10745.8	10745.8	10745.8	10745.8	10745.8
2.5°	11030.8	11016.0	11021.4	11010.6	10984.9	10959.2	10921.4	10928.1	10875.5	10797.1	10699.8
5°	10822.8	10817.4	10857.9	10880.9	10899.8	10884.9	10874.1	10887.6	10810.6	10702.5	10533.7
7.5°	10386.4	10327.0	10378.3	10455.3	10528.3	10583.6	10656.6	10666.1	10617.4	10503.9	10282.4
10°	9766.3	9709.6	9785.2	9905.4	10051.4	10183.7	10331.0	10358.0	10367.5	10264.8	9996.0
12.5°	9123.2	9080.0	9155.6	9324.5	9566.3	9770.3	10005.4	10045.9	10129.7	10060.8	9731.2
15°	8547.7	8531.5	8623.4	8789.5	9067.8	9379.9	9719.0	9793.3	9935.2	9912.2	9524.5
17.5°	8050.5	8046.5	8116.7	8291.0	8599.0	8993.5	9434.0	9559.6	9770.3	9797.4	9354.2
20°	7680.4	7672.3	7720.9	7849.2	8166.7	8613.9	9125.9	9298.9	9602.8	9697.4	9178.6
22.5°	7481.8	7480.4	7481.8	7542.6	7802.0	8218.1	8826.0	9036.8	9439.4	9617.7	8984.1
25°	7448.0	7443.9	7414.2	7407.5	7554.7	7887.1	8528.8	8761.2	9284.0	9562.3	8799.0
27.5°	7535.8	7541.2	7502.0	7438.5	7468.3	7669.6	8270.8	8519.3	9159.7	9551.5	8670.6
30°	7718.2	7715.5	7681.7	7615.5	7557.4	7588.5	8087.0	8335.6	9075.9	9598.8	8582.8
32.5°	7919.5	7934.4	7927.6	7891.1	7804.7	7680.4	8031.6	8274.8	9051.6	9712.3	8545.0
35°	8161.3	8177.5	8226.2	8254.5	8153.2	7953.3	8150.5	8361.3	9121.9	9925.7	8605.8
37.5°	8391.0	8432.9	8569.3	8689.6	8603.1	8380.2	8466.6	8616.6	9339.4	10262.1	8769.3
40°	8655.8	8692.3	8915.2	9170.5	9157.0	8926.0	8976.0	9075.9	9723.1	10744.4	9065.1
42.5°	8916.5	8989.5	9312.4	9674.4	9778.5	9574.5	9654.2	9706.9	10263.5	11383.4	9581.2
45°	9263.7	9342.1	9790.6	10227.0	10470.2	10355.3	10482.3	10502.6	10943.0	12253.5	10331.0
47.5°	9789.3	9878.4	10401.3	10859.2	11230.8	11242.9	11452.3	11444.2	11791.4	13249.1	11275.3
50°	10608.0	10736.3	11164.6	11592.8	12044.1	12295.3	12575.0	12535.8	12808.7	14309.7	12362.9
52.5°	11680.6	11740.1	12057.6	12373.7	12934.4	13497.7	13899.0	13863.8	13962.5	15399.9	13597.7
55°	12792.5	12837.1	12968.1	13141.1	13894.9	14813.6	15662.0	15606.6	15356.7	16532.0	14817.6
57.5°	13792.2	13882.8	13973.3	14044.9	14862.2	16188.9	17465.6	17469.6	16869.8	17753.3	16078.1
60°	13947.6	14027.3	14625.8	15190.5	16517.2	18023.5	19396.1	19355.6	18435.6	19078.7	17483.1
62.5°	12329.1	12508.8	13508.5	15010.8	18111.3	21379.4	21859.0	21809.0	20308.1	20712.0	19119.2
65°	8835.5	9039.5	10245.9	12503.4	17338.6	25077.0	26303.7	25630.9	22861.4	22720.9	21034.9
67.5°	5097.3	5145.9	5668.7	7481.8	13201.9	25270.2	33084.4	32142.7	26826.6	25000.0	21972.5
70°	3769.3	3767.9	3892.2	4604.2	7144.0	20624.2	36309.2	37153.5	31001.1	25749.8	20647.2
71°	3408.5	3412.6	3551.7	4190.8	5657.9	17262.9	35624.2	37472.4	32100.8	25379.7	19688.0
72.5°	2915.4	2928.9	3122.1	3758.4	4759.5	11904.9	32673.7	35559.4	32622.3	24466.4	18187.0
75°	2211.6	2242.6	2510.1	3168.1	4350.2	6037.6	23980.0	28395.1	28980.0	21588.8	13513.9
77.5°	1578.0	1613.1	1915.7	2664.1	4135.4	4550.1	16059.2	20712.0	21326.7	13835.5	6095.7
80°	997.0	1038.9	1267.2	2119.7	3885.4	4320.5	10091.9	13921.9	11629.3	4427.2	1550.9
82.5°	585.0	617.4	786.3	1384.8	3173.5	4161.0	5937.6	7716.8	4525.8	1337.5	705.2
85°	339.1	354.0	490.4	882.2	2304.8	3927.3	4362.3	4313.7	1964.3	653.9	333.7
87.5°	158.1	175.6	290.5	460.7	1279.4	2846.5	3447.7	2978.9	1221.3	306.7	156.7
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°	10745.8	10745.8	10745.8	10745.8	10745.8	10745.8	10745.8	10745.8	10745.8	10745.8	10745.8
2.5°	10652.5	10629.6	10533.7	10448.5	10359.4	10243.2	10114.8	10098.6	10020.3	10035.1	10008.1
5°	10441.8	10383.7	10152.7	9943.3	9696.0	9474.5	9234.0	9123.2	8963.8	8953.0	8912.5
7.5°	10140.5	10032.4	9674.4	9277.2	8880.0	8501.8	8127.5	7881.7	7630.4	7523.7	7514.2
10°	9801.4	9617.7	9090.8	8503.1	7930.3	7377.7	6842.8	6446.9	6090.3	5921.4	5914.6
12.5°	9479.9	9208.3	8485.6	7685.8	6902.2	6186.2	5452.6	4932.5	4485.3	4335.3	4271.8
15°	9207.0	8824.7	7896.5	6873.8	5922.7	4928.4	4093.5	3546.3	3132.9	2989.7	2962.7
17.5°	8942.2	8450.4	7292.6	6053.8	4904.1	3811.1	2974.9	2568.2	2348.0	2289.9	2288.6
20°	8678.7	8065.4	6661.7	5214.8	3919.2	2850.6	2287.2	2104.8	2030.5	2023.8	2013.0
22.5°	8380.2	7657.4	5998.4	4373.1	3058.6	2241.3	1944.1	1871.1	1861.7	1886.0	1886.0
25°	8100.5	7252.1	5325.6	3549.0	2379.1	1869.8	1736.0	1721.2	1746.8	1790.1	1794.1
27.5°	7839.8	6861.7	4669.0	2816.8	1906.2	1646.9	1591.5	1609.0	1655.0	1704.9	1706.3
30°	7625.0	6492.8	4031.3	2219.7	1610.4	1480.7	1471.2	1506.4	1556.3	1595.5	1605.0
32.5°	7458.8	6178.1	3415.3	1784.7	1417.2	1356.4	1364.5	1394.2	1425.3	1446.9	1461.8
35°	7381.8	5907.9	2846.5	1505.0	1294.2	1260.5	1271.3	1287.5	1301.0	1317.2	1329.4
37.5°	7395.3	5698.5	2338.6	1330.7	1211.8	1194.3	1194.3	1194.3	1194.3	1202.4	1203.7
40°	7521.0	5578.2	1925.2	1219.9	1156.4	1137.5	1122.7	1109.2	1098.4	1103.8	1101.1
42.5°	7842.5	5567.4	1622.5	1149.7	1111.9	1080.8	1051.1	1032.2	1018.6	1024.0	1026.8
45°	8388.3	5702.5	1418.5	1099.7	1070.0	1022.7	984.9	964.6	955.1	972.7	975.4
47.5°	9094.9	5997.0	1294.2	1063.2	1030.8	968.7	928.1	909.2	911.9	937.6	944.3
50°	10005.4	6475.3	1234.8	1040.3	1003.8	922.7	880.8	864.6	872.7	909.2	917.3
52.5°	11005.2	7164.3	1241.6	1033.5	986.2	889.0	844.4	825.5	839.0	872.7	879.5
55°	12158.9	7992.4	1353.7	1043.0	960.6	867.3	814.6	782.2	793.0	824.1	829.5
57.5°	13441.0	8940.8	1579.3	1040.3	928.1	847.1	783.6	734.9	743.0	762.0	767.4
60°	14775.8	10086.5	1929.2	1048.4	913.3	822.8	741.7	680.9	678.2	694.4	697.1
62.5°	16378.0	11411.8	2329.1	1053.8	922.7	791.7	686.3	626.9	618.8	622.8	625.5
65°	18028.9	12371.0	2179.1	1032.2	952.4	766.0	637.7	574.2	559.3	556.6	558.0
67.5°	18080.3	11342.9	1528.0	988.9	964.6	752.5	601.2	529.6	505.3	495.8	494.5
70°	16214.6	9215.1	1190.2	943.0	916.0	730.9	567.4	493.1	456.6	441.8	440.4
71°	15304.0	8482.9	1128.1	920.0	879.5	709.3	552.6	476.9	439.1	422.9	420.2
72.5°	13876.0	7604.7	1052.4	883.5	809.2	653.9	524.2	453.9	414.8	395.8	391.8
75°	9958.1	4973.0	903.8	787.6	670.1	521.5	459.3	408.0	374.2	351.3	348.6
77.5°	3836.8	1979.2	683.6	655.2	513.4	408.0	378.3	352.6	328.3	305.3	304.0
80°	1186.2	884.9	498.5	493.1	371.5	304.0	294.5	287.8	278.3	254.0	248.6
82.5°	633.6	508.0	343.2	318.8	243.2	202.6	213.5	216.2	217.5	191.8	189.1
85°	302.6	268.8	193.2	181.0	141.9	113.5	131.0	141.9	143.2	117.5	109.4
87.5°	144.6	140.5	90.5	68.9	52.7	37.8	45.9	56.7	62.1	44.6	39.2
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)