

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: P319980

Luminaire Tested: **GAN-SA6D-730-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319980  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA6D-730-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40159 lumens  
Efficiency: N/A  
Efficacy: 105.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

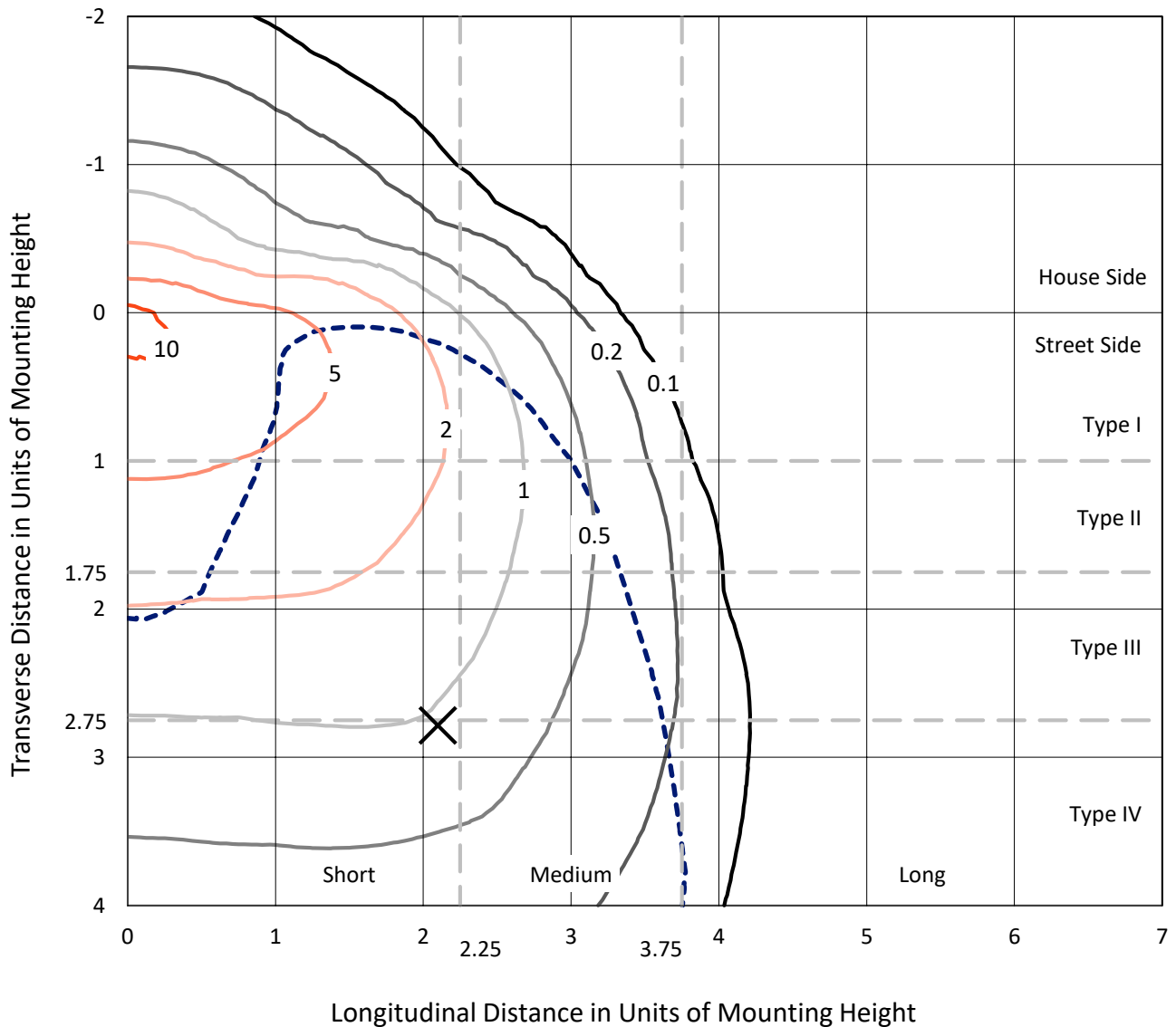
Input Watts (W): 382  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

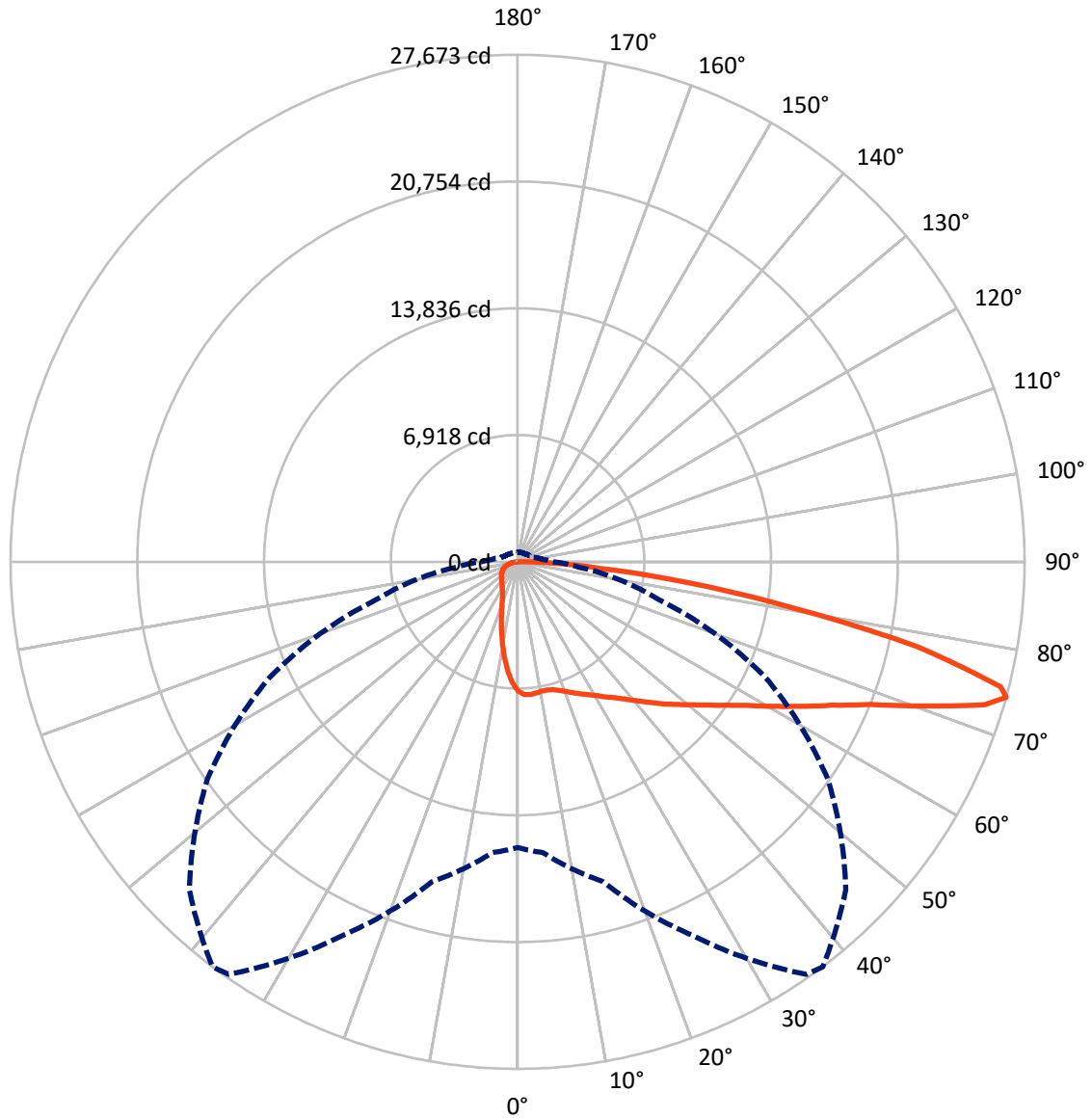
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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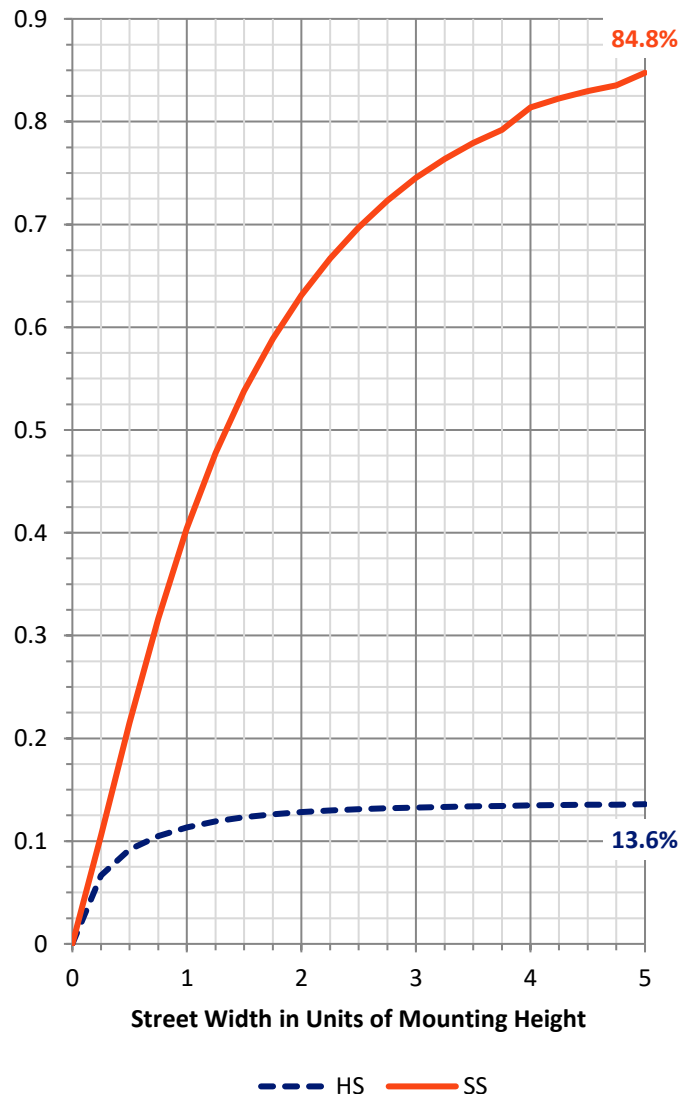
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5525.6	0.0	5525.6
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	34633.4	0.0	34633.4
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	40159.0	0.0	40159.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	623.1	1.6
10°-20°	1597.2	4.0
20°-30°	2461.0	6.1
30°-40°	3578.6	8.9
40°-50°	5267.1	13.1
50°-60°	7396.7	18.4
60°-70°	9361.9	23.3
70°-80°	8243.5	20.5
80°-90°	1629.9	4.1
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°	40159.0	100.0
0°-180°	40159.0	100.0

**Coefficient of Utilization**

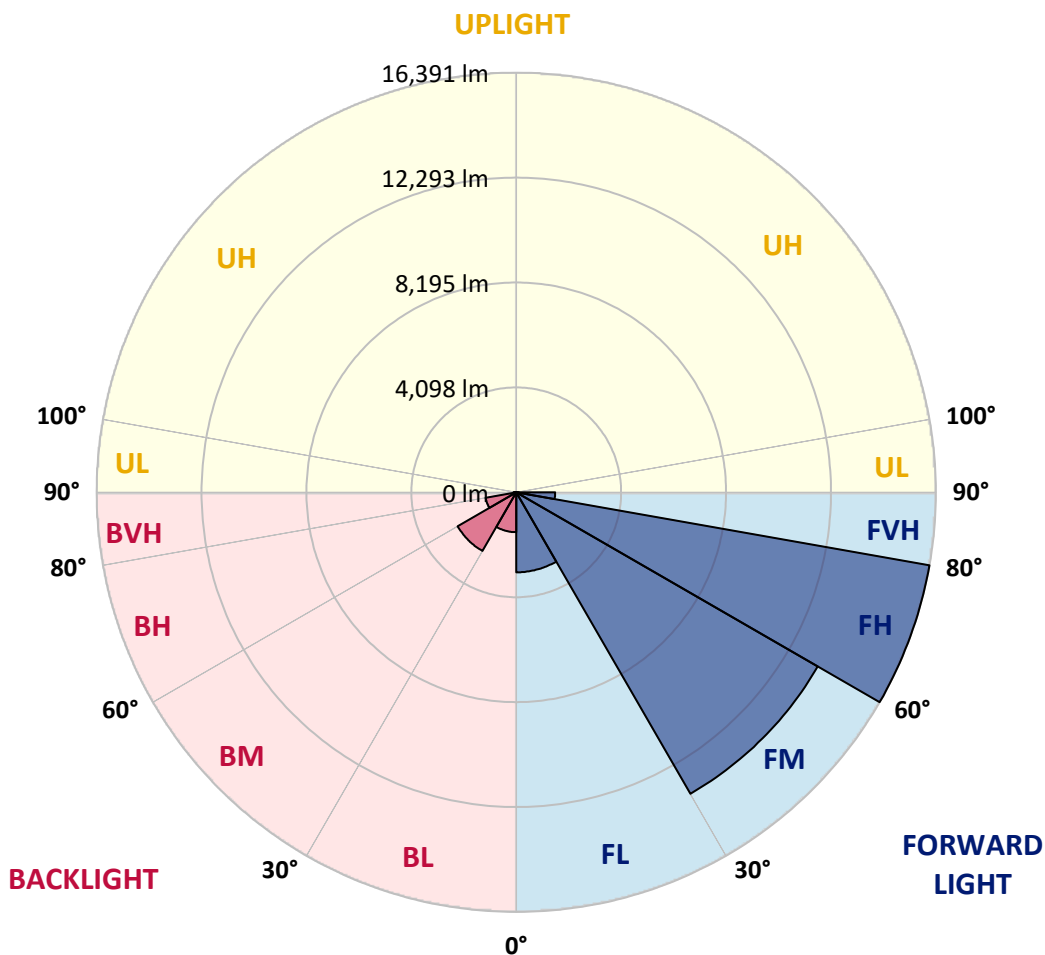


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3124.8	7.8			
FM (30°-60°)	13598.2	33.9			
FH (60°-80°)	16390.9	40.8			G5
FVH (80°-90°)	1519.6	3.8			G5
BL (0°-30°)	1556.4	3.9	B3/2500		
BM (30°-60°)	2644.2	6.6	B3/5000		
BH (60°-80°)	1214.6	3.0	B3/2500		G3/2500
BVH (80°-90°)	110.4	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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	7075.9	7075.9	7075.9	7075.9	7075.9	7075.9	7075.9	7075.9	7075.9	7075.9	7075.9
2.5°	7317.8	7319.2	7317.8	7306.4	7279.6	7256.9	7238.5	7211.7	7152.2	7107.0	7039.1
5°	7387.1	7378.6	7372.9	7351.7	7309.3	7283.8	7248.4	7197.5	7099.9	7009.4	6899.0
7.5°	7354.5	7344.6	7331.9	7306.4	7258.3	7237.1	7187.6	7121.1	7003.7	6884.9	6726.5
10°	7254.1	7251.3	7245.6	7240.0	7198.9	7182.0	7136.7	7066.0	6950.0	6805.7	6620.4
12.5°	7142.3	7149.4	7172.1	7201.8	7183.4	7174.9	7146.6	7098.5	6979.7	6824.1	6600.6
15°	7071.6	7091.4	7152.2	7230.1	7245.6	7242.8	7235.7	7204.6	7078.7	6906.1	6645.8
17.5°	7047.6	7080.1	7196.1	7324.8	7370.1	7380.0	7382.8	7329.1	7189.0	7006.5	6692.5
20°	7091.4	7132.4	7302.2	7479.0	7551.2	7556.8	7544.1	7450.7	7293.7	7092.8	6718.0
22.5°	7224.4	7261.2	7473.4	7672.8	7754.9	7763.4	7725.2	7583.7	7404.0	7194.7	6753.3
25°	7480.4	7525.7	7737.9	7937.4	7979.8	7981.2	7926.0	7750.6	7548.3	7337.6	6829.7
27.5°	7814.3	7859.6	8050.5	8245.7	8223.1	8210.4	8135.4	7960.0	7736.5	7534.2	6965.5
30°	8186.3	8235.8	8416.9	8555.5	8501.8	8476.3	8415.5	8189.2	7998.2	7803.0	7173.5
32.5°	8571.1	8616.4	8774.8	8869.6	8801.7	8790.4	8698.4	8491.9	8339.1	8213.2	7510.1
35°	8965.8	8998.3	9153.9	9207.7	9117.1	9114.3	9088.8	8899.3	8803.1	8862.5	7999.6
37.5°	9368.9	9377.4	9510.4	9513.2	9486.3	9497.7	9524.5	9405.7	9432.6	9617.9	8636.2
40°	9728.2	9750.9	9847.1	9876.8	9923.5	9963.1	10097.5	10019.7	10227.6	10555.8	9428.4
42.5°	9994.2	10038.0	10192.2	10268.6	10420.0	10482.2	10671.8	10743.9	11162.7	11654.9	10370.5
45°	10219.1	10287.0	10534.6	10691.6	10947.6	11056.6	11328.2	11570.1	12219.4	12847.5	11362.1
47.5°	10462.4	10548.7	10858.5	11158.4	11506.4	11629.5	12123.2	12485.3	13346.8	14047.0	12297.2
50°	10820.3	10886.8	11189.5	11660.6	12094.9	12253.3	12936.6	13455.7	14492.6	15190.0	13107.7
52.5°	11319.7	11294.2	11550.3	12210.9	12793.7	12988.9	13805.1	14488.4	15654.0	16224.1	13792.4
55°	11821.9	11779.4	11959.1	12786.6	13608.5	13813.6	14761.4	15525.3	16758.8	17154.9	14317.2
57.5°	12380.6	12300.0	12451.4	13435.9	14536.5	14781.2	15832.3	16627.3	17845.3	17907.5	14651.1
60°	12956.4	12847.5	13017.2	14240.8	15714.9	16003.4	17085.6	17702.4	18869.4	18510.1	14758.6
62.5°	13460.0	13383.6	13645.3	15139.1	17043.2	17360.0	18316.3	18845.4	19879.5	18760.5	14371.0
65°	13899.9	13912.7	14365.3	16149.1	18524.3	18862.4	19728.1	20254.3	20674.5	18612.0	13464.2
67.5°	14424.7	14496.9	15269.3	17478.9	20388.7	20759.3	21782.1	21790.6	21118.7	17740.6	11679.0
70°	15190.0	15338.6	16512.7	19323.5	23039.7	23548.9	24338.3	22693.1	20494.8	15378.2	9189.3
72.5°	15869.1	16146.3	17835.4	21434.1	26270.7	26656.8	25833.5	22172.5	17887.7	11524.8	5724.9
74°	15593.2	15937.0	18075.8	22473.8	27487.2	27672.5	25328.5	20653.3	14914.2	7981.2	3327.2
75°	14999.1	15372.5	17725.0	22463.9	27333.0	27229.8	24109.1	18917.5	12283.0	5443.4	2213.9
77.5°	12104.8	12499.5	14935.4	19252.8	22411.6	22314.0	18520.0	12690.4	5379.7	1785.2	1124.6
80°	7037.7	7339.0	9271.3	12226.4	15112.2	15289.1	12179.8	6279.4	2116.3	1003.0	762.5
82.5°	3126.3	3334.2	4478.6	6241.2	9120.0	9347.7	6378.5	3290.4	1307.1	609.7	458.3
85°	2051.2	2205.4	2718.9	2972.1	4342.8	4498.4	3122.0	2561.9	862.9	335.3	336.7
87.5°	1475.4	1624.0	2020.1	1764.0	1993.2	1887.1	1698.9	2370.9	346.6	191.0	113.2
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°	7075.9	7075.9	7075.9	7075.9	7075.9	7075.9	7075.9	7075.9	7075.9	7075.9	7075.9
2.5°	7009.4	6986.7	6935.8	6839.6	6785.9	6740.6	6665.6	6621.8	6602.0	6600.6	6609.0
5°	6835.4	6783.0	6651.5	6490.2	6361.5	6244.1	6098.4	6010.7	5948.4	5911.6	5921.5
7.5°	6633.1	6551.0	6344.5	6087.1	5880.5	5652.8	5427.8	5293.5	5188.8	5111.0	5125.1
10°	6494.5	6381.3	6080.0	5709.4	5365.6	5034.6	4724.8	4539.5	4392.4	4279.2	4287.7
12.5°	6447.8	6295.0	5877.7	5382.6	4900.2	4447.5	4042.9	3758.6	3607.2	3478.5	3488.4
15°	6454.8	6249.7	5707.9	5088.3	4481.5	3911.4	3420.5	3088.1	2883.0	2793.8	2795.3
17.5°	6460.5	6197.4	5529.7	4772.9	4067.0	3410.6	2877.3	2540.6	2346.8	2264.8	2266.2
20°	6442.1	6112.5	5309.0	4410.7	3634.1	2950.9	2434.5	2148.8	2001.7	1938.0	1938.0
22.5°	6418.1	6012.1	5060.0	4047.2	3206.9	2551.9	2117.7	1899.8	1814.9	1772.5	1771.1
25°	6429.4	5937.1	4805.4	3673.7	2813.7	2233.7	1906.9	1762.6	1706.0	1679.1	1677.7
27.5°	6490.2	5901.7	4570.6	3301.7	2469.9	1994.6	1765.4	1663.6	1626.8	1609.8	1609.8
30°	6600.6	5901.7	4325.9	2984.8	2184.2	1817.8	1656.5	1587.2	1561.7	1550.4	1550.4
32.5°	6792.9	5934.3	4089.6	2670.8	1956.4	1679.1	1566.0	1519.3	1499.5	1493.8	1493.8
35°	7124.0	6044.6	3859.0	2373.7	1772.5	1566.0	1479.7	1452.8	1438.7	1437.2	1441.5
37.5°	7589.4	6269.5	3642.6	2154.4	1642.4	1474.0	1407.5	1386.3	1377.8	1384.9	1390.6
40°	8175.0	6575.1	3446.0	1956.4	1543.3	1400.5	1341.0	1326.9	1322.7	1332.6	1341.0
42.5°	8882.3	6988.2	3284.7	1813.5	1466.9	1338.2	1284.5	1267.5	1263.2	1274.6	1285.9
45°	9647.6	7432.3	3171.5	1707.4	1407.5	1291.5	1235.0	1216.6	1208.1	1213.7	1226.5
47.5°	10343.6	7852.5	3126.3	1632.5	1350.9	1251.9	1191.1	1168.5	1154.3	1151.5	1161.4
50°	10930.7	8165.1	3147.5	1587.2	1305.7	1208.1	1148.7	1123.2	1102.0	1089.2	1096.3
52.5°	11357.9	8361.7	3167.3	1567.4	1270.3	1160.0	1102.0	1077.9	1049.6	1028.4	1028.4
55°	11667.7	8407.0	3123.5	1551.8	1243.4	1107.6	1049.6	1027.0	998.7	974.7	971.8
57.5°	11789.3	8279.7	2960.8	1529.2	1225.0	1058.1	994.5	977.5	953.4	925.2	923.7
60°	11625.2	7886.4	2646.7	1481.1	1201.0	1017.1	939.3	928.0	916.7	889.8	888.4
62.5°	10966.0	7023.5	2240.7	1383.5	1152.9	973.2	888.4	894.0	895.4	877.1	874.2
65°	9770.7	5838.1	1844.6	1256.2	1080.8	920.9	836.0	862.9	878.5	875.6	871.4
67.5°	8033.5	4543.7	1563.1	1121.8	986.0	848.8	779.4	810.6	823.3	833.2	830.4
70°	5962.6	3204.1	1293.0	980.3	871.4	763.9	705.9	721.4	713.0	724.3	728.5
72.5°	3324.3	1922.4	1053.9	838.9	752.6	664.9	623.8	621.0	602.6	602.6	602.6
74°	1994.6	1410.4	926.6	751.2	680.4	599.8	564.4	551.7	534.7	536.1	534.7
75°	1604.2	1212.3	850.2	693.2	629.5	561.6	526.2	509.3	496.5	496.5	495.1
77.5°	1012.9	920.9	684.7	551.7	503.6	462.6	438.5	415.9	415.9	414.5	413.1
80°	765.3	732.8	533.3	417.3	386.2	355.1	339.5	329.6	329.6	333.8	332.4
82.5°	524.8	551.7	374.9	291.4	275.8	253.2	250.4	251.8	247.6	241.9	240.5
85°	383.4	414.5	253.2	183.9	168.3	154.2	165.5	171.2	164.1	151.4	145.7
87.5°	147.1	271.6	135.8	76.4	70.7	60.8	70.7	73.6	79.2	62.2	63.7
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)