

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: P320021

Luminaire Tested: **GAN-SA7D-740-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320021  
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-SA7D-740-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 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: 52148 lumens  
Efficiency: N/A  
Efficacy: 116.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

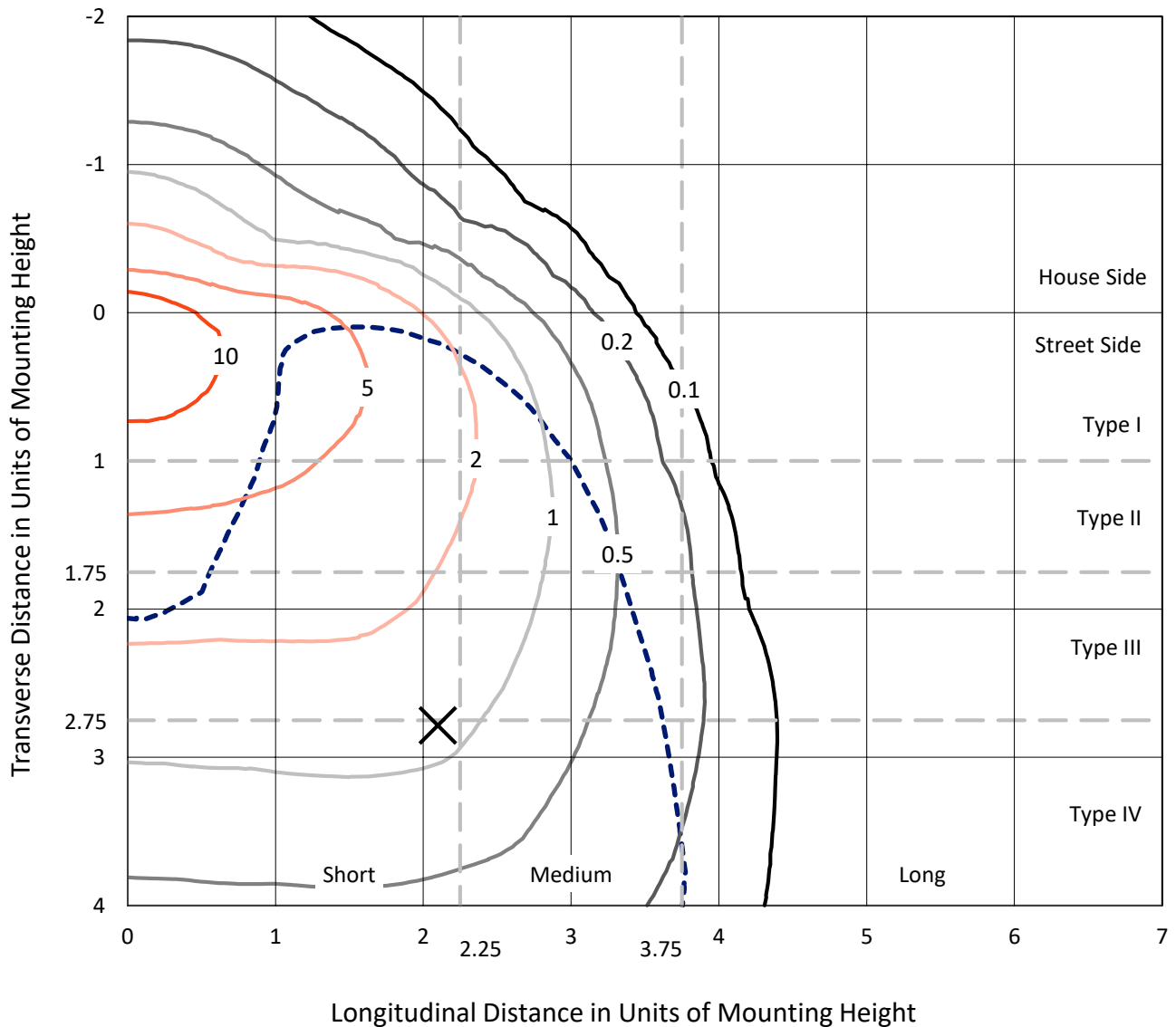
Input Watts (W): 448  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

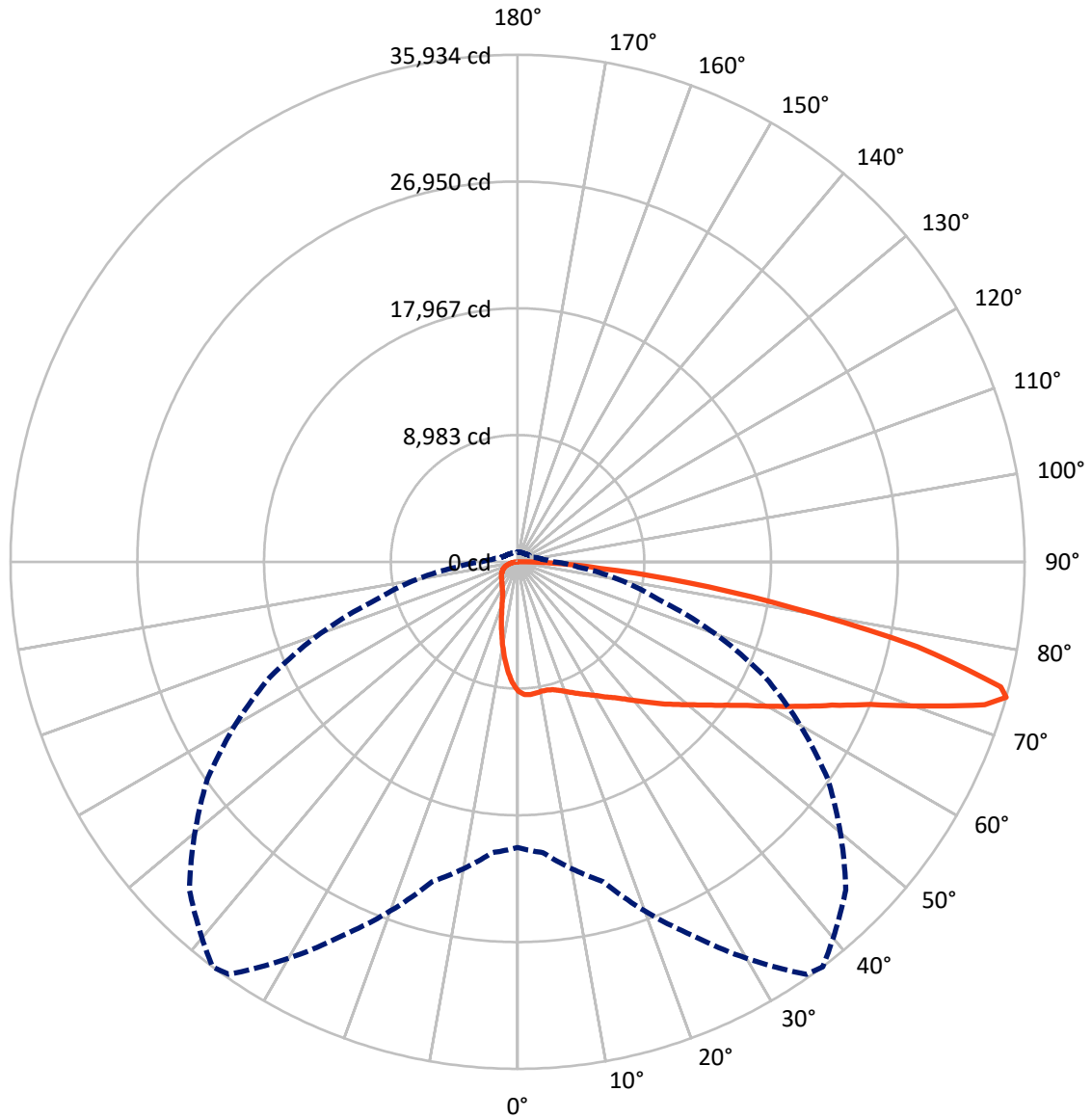
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 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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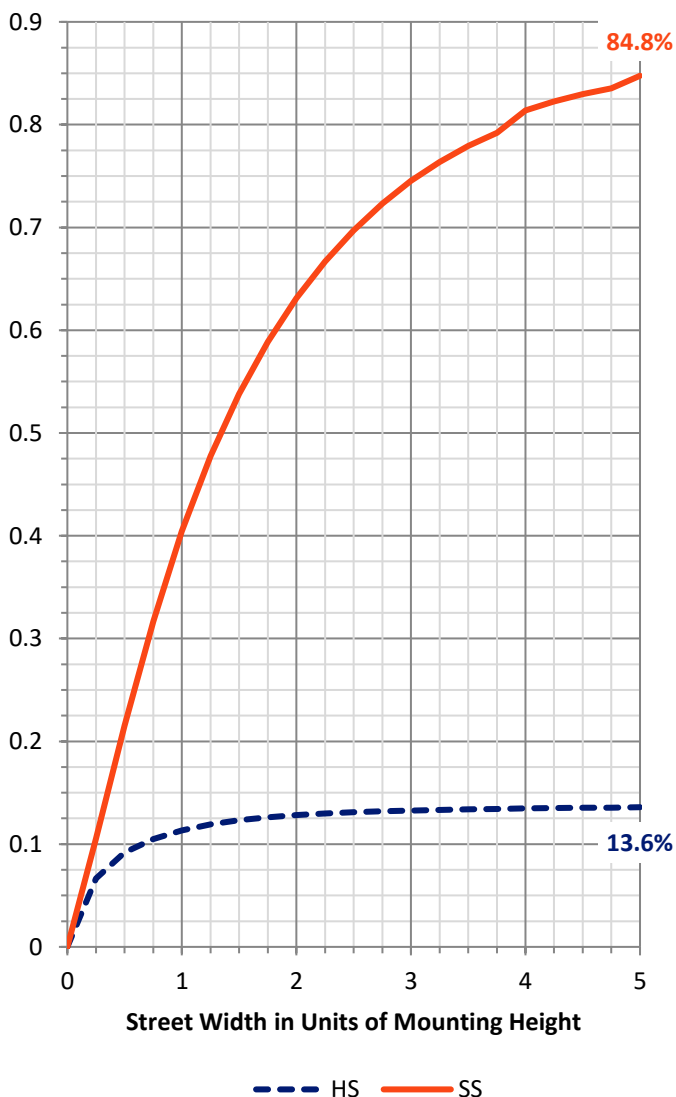
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7175.2	0.0	7175.2
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	44972.8	0.0	44972.8
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	52148.0	0.0	52148.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	809.1	1.6
10°-20°	2074.0	4.0
20°-30°	3195.7	6.1
30°-40°	4646.9	8.9
40°-50°	6839.5	13.1
50°-60°	9604.9	18.4
60°-70°	12156.8	23.3
70°-80°	10704.5	20.5
80°-90°	2116.5	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°	52148.0	100.0
0°-180°	52148.0	100.0

**Coefficient of Utilization**

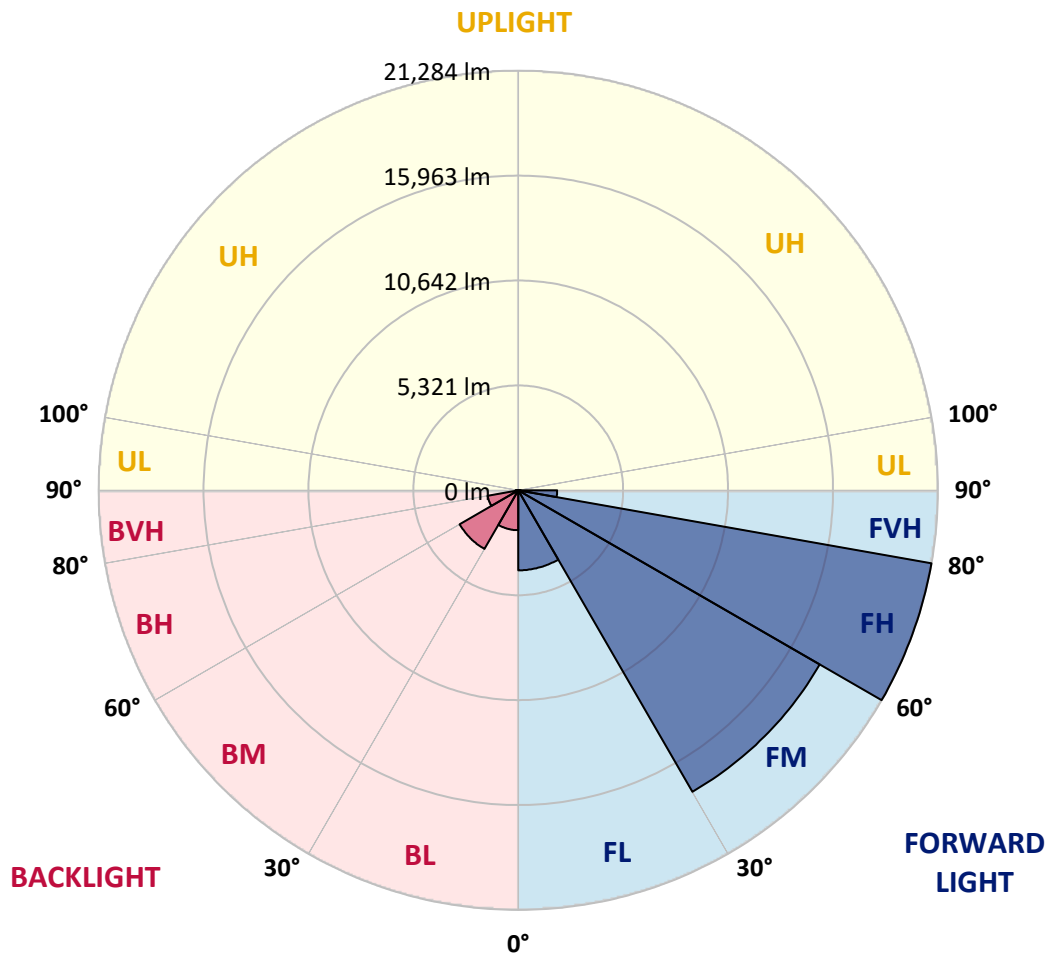


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4057.7	7.8			
FM (30°-60°)	17657.7	33.9			
FH (60°-80°)	21284.1	40.8			G5
FVH (80°-90°)	1973.2	3.8			G5
BL (0°-30°)	2021.1	3.9	B3/2500		
BM (30°-60°)	3433.6	6.6	B3/5000		
BH (60°-80°)	1577.2	3.0	B3/2500		G3/2500
BVH (80°-90°)	143.3	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°	9188.3	9188.3	9188.3	9188.3	9188.3	9188.3	9188.3	9188.3	9188.3	9188.3	9188.3
2.5°	9502.4	9504.2	9502.4	9487.7	9452.8	9423.4	9399.5	9364.6	9287.5	9228.7	9140.5
5°	9592.4	9581.4	9574.0	9546.5	9491.4	9458.3	9412.4	9346.3	9219.5	9101.9	8958.7
7.5°	9550.1	9537.3	9520.8	9487.7	9425.2	9397.7	9333.4	9247.1	9094.6	8940.3	8734.6
10°	9419.7	9416.1	9408.7	9401.4	9348.1	9326.0	9267.3	9175.4	9024.8	8837.4	8596.8
12.5°	9274.6	9283.8	9313.2	9351.8	9327.9	9316.9	9280.1	9217.7	9063.4	8861.3	8571.1
15°	9182.8	9208.5	9287.5	9388.5	9408.7	9405.0	9395.8	9355.4	9191.9	8967.8	8629.9
17.5°	9151.5	9193.8	9344.4	9511.6	9570.4	9583.2	9586.9	9517.1	9335.2	9098.3	8690.5
20°	9208.5	9261.8	9482.2	9711.8	9805.5	9812.8	9796.3	9675.1	9471.2	9210.3	8723.5
22.5°	9381.2	9428.9	9704.5	9963.5	10070.0	10081.0	10031.4	9847.7	9614.4	9342.6	8769.5
25°	9713.6	9772.4	10048.0	10307.0	10362.1	10363.9	10292.3	10064.5	9801.8	9528.1	8868.7
27.5°	10147.1	10205.9	10453.9	10707.4	10678.0	10661.5	10564.1	10336.4	10046.1	9783.4	9045.0
30°	10630.3	10694.6	10929.7	11109.7	11039.9	11006.8	10927.8	10633.9	10385.9	10132.5	9315.0
32.5°	11129.9	11188.7	11394.4	11517.5	11429.3	11414.6	11295.2	11027.0	10828.6	10665.2	9752.2
35°	11642.4	11684.7	11886.7	11956.5	11839.0	11835.3	11802.2	11556.1	11431.2	11508.3	10387.8
37.5°	12165.9	12176.9	12349.6	12353.3	12318.4	12333.1	12368.0	12213.7	12248.6	12489.2	11214.4
40°	12632.5	12661.9	12786.8	12825.4	12886.0	12937.4	13111.9	13010.9	13280.9	13707.1	12243.1
42.5°	12977.8	13034.8	13235.0	13334.2	13530.8	13611.6	13857.7	13951.4	14495.1	15134.4	13466.5
45°	13269.9	13358.1	13679.5	13883.4	14215.9	14357.4	14710.1	15024.2	15867.3	16682.9	14754.1
47.5°	13585.9	13697.9	14100.2	14489.6	14941.5	15101.3	15742.4	16212.7	17331.3	18240.6	15968.3
50°	14050.6	14136.9	14530.0	15141.7	15705.7	15911.4	16798.6	17472.8	18819.2	19724.9	17020.9
52.5°	14699.0	14666.0	14998.5	15856.3	16613.1	16866.6	17926.5	18813.7	20327.4	21067.6	17910.0
55°	15351.1	15296.0	15529.3	16603.9	17671.2	17937.5	19168.3	20160.2	21762.0	22276.3	18591.5
57.5°	16076.7	15972.0	16168.6	17447.1	18876.2	19194.0	20558.8	21591.2	23172.7	23253.6	19025.0
60°	16824.4	16682.9	16903.3	18492.3	20406.3	20781.1	22186.3	22987.2	24502.7	24036.1	19164.6
62.5°	17478.3	17379.1	17718.9	19658.7	22131.2	22542.7	23784.4	24471.5	25814.2	24361.2	18661.3
65°	18049.6	18066.1	18653.9	20970.3	24054.5	24493.5	25617.7	26301.0	26846.6	24168.4	17483.8
67.5°	18731.1	18824.8	19827.7	22697.0	26475.5	26956.8	28284.9	28295.9	27423.4	23036.8	15165.6
70°	19724.9	19917.7	21442.4	25092.3	29917.9	30579.2	31604.2	29467.9	26613.3	19969.2	11932.6
72.5°	20606.6	20966.6	23159.9	27833.0	34113.4	34614.9	33545.8	28791.9	23227.9	14965.4	7434.0
74°	20248.4	20694.7	23472.2	29183.2	35693.2	35933.8	32890.1	26819.0	19366.7	10363.9	4320.4
75°	19476.9	19961.8	23016.6	29170.3	35493.0	35358.9	31306.6	24565.1	15950.0	7068.5	2874.8
77.5°	15718.5	16231.0	19394.2	25000.5	29102.3	28975.6	24049.0	16479.0	6985.8	2318.2	1460.4
80°	9138.7	9529.9	12039.2	15876.5	19623.8	19853.4	15815.9	8154.1	2748.0	1302.4	990.1
82.5°	4059.6	4329.6	5815.7	8104.5	11842.6	12138.4	8282.7	4272.7	1697.3	791.7	595.2
85°	2663.5	2863.8	3530.6	3859.4	5639.3	5841.4	4054.1	3326.7	1120.5	435.4	437.2
87.5°	1915.9	2108.8	2623.1	2290.6	2588.2	2450.5	2206.1	3078.7	450.0	248.0	147.0
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°	9188.3	9188.3	9188.3	9188.3	9188.3	9188.3	9188.3	9188.3	9188.3	9188.3	9188.3
2.5°	9101.9	9072.5	9006.4	8881.5	8811.7	8752.9	8655.6	8598.6	8572.9	8571.1	8582.1
5°	8876.0	8808.0	8637.2	8427.8	8260.6	8108.2	7919.0	7805.1	7724.2	7676.5	7689.3
7.5°	8613.3	8506.8	8238.6	7904.3	7636.1	7340.3	7048.3	6873.8	6737.8	6636.8	6655.2
10°	8433.3	8286.3	7895.1	7413.8	6967.4	6537.6	6135.3	5894.7	5703.6	5556.7	5567.7
12.5°	8372.7	8174.3	7632.4	6989.5	6363.1	5775.3	5249.9	4880.7	4684.1	4517.0	4529.8
15°	8381.9	8115.5	7412.0	6607.4	5819.4	5079.1	4441.7	4010.0	3743.6	3627.9	3629.8
17.5°	8389.2	8047.5	7180.5	6197.8	5281.1	4428.8	3736.3	3299.1	3047.5	2940.9	2942.7
20°	8365.3	7937.3	6894.0	5727.5	4719.0	3831.8	3161.3	2790.3	2599.2	2516.6	2516.6
22.5°	8334.1	7806.9	6570.7	5255.4	4164.3	3313.8	2749.9	2467.0	2356.8	2301.7	2299.8
25°	8348.8	7709.6	6240.0	4770.5	3653.6	2900.5	2476.2	2288.8	2215.3	2180.4	2178.6
27.5°	8427.8	7663.6	5935.1	4287.4	3207.3	2590.1	2292.5	2160.2	2112.5	2090.4	2090.4
30°	8571.1	7663.6	5617.3	3875.9	2836.2	2360.4	2151.0	2061.0	2028.0	2013.3	2013.3
32.5°	8820.9	7705.9	5310.5	3468.1	2540.5	2180.4	2033.5	1972.9	1947.1	1939.8	1939.8
35°	9250.7	7849.2	5011.1	3082.4	2301.7	2033.5	1921.4	1886.5	1868.1	1866.3	1871.8
37.5°	9855.1	8141.2	4730.1	2797.6	2132.7	1914.1	1827.7	1800.2	1789.2	1798.3	1805.7
40°	10615.6	8538.0	4474.7	2540.5	2004.1	1818.6	1741.4	1723.0	1717.5	1730.4	1741.4
42.5°	11534.0	9074.4	4265.3	2354.9	1904.9	1737.7	1667.9	1645.9	1640.4	1655.1	1669.8
45°	12527.8	9651.2	4118.4	2217.2	1827.7	1677.1	1603.6	1579.8	1568.7	1576.1	1592.6
47.5°	13431.6	10196.7	4059.6	2119.8	1754.3	1625.7	1546.7	1517.3	1498.9	1495.3	1508.1
50°	14193.9	10602.7	4087.1	2061.0	1695.5	1568.7	1491.6	1458.5	1431.0	1414.4	1423.6
52.5°	14748.6	10858.0	4112.9	2035.3	1649.6	1506.3	1431.0	1399.7	1363.0	1335.4	1335.4
55°	15150.9	10916.8	4055.9	2015.1	1614.7	1438.3	1363.0	1333.6	1296.9	1265.6	1262.0
57.5°	15308.9	10751.5	3844.7	1985.7	1590.8	1374.0	1291.4	1269.3	1238.1	1201.3	1199.5
60°	15095.8	10240.8	3436.9	1923.3	1559.5	1320.7	1219.7	1205.0	1190.3	1155.4	1153.6
62.5°	14239.8	9120.3	2909.7	1796.5	1497.1	1263.8	1153.6	1160.9	1162.8	1138.9	1135.2
65°	12687.6	7581.0	2395.3	1631.2	1403.4	1195.8	1085.6	1120.5	1140.7	1137.1	1131.5
67.5°	10431.9	5900.2	2029.8	1456.7	1280.3	1102.2	1012.1	1052.6	1069.1	1081.9	1078.3
70°	7742.6	4160.6	1678.9	1273.0	1131.5	991.9	916.6	936.8	925.8	940.5	946.0
72.5°	4316.8	2496.4	1368.5	1089.3	977.2	863.4	810.1	806.4	782.5	782.5	782.5
74°	2590.1	1831.4	1203.2	975.4	883.6	778.9	732.9	716.4	694.4	696.2	694.4
75°	2083.1	1574.2	1104.0	900.1	817.4	729.3	683.3	661.3	644.8	644.8	642.9
77.5°	1315.2	1195.8	889.1	716.4	653.9	600.7	569.4	540.1	540.1	538.2	536.4
80°	993.8	951.5	692.5	541.9	501.5	461.1	440.9	428.0	428.0	433.5	431.7
82.5°	681.5	716.4	486.8	378.4	358.2	328.8	325.1	327.0	321.5	314.1	312.3
85°	497.8	538.2	328.8	238.8	218.6	200.2	214.9	222.3	213.1	196.6	189.2
87.5°	191.0	352.7	176.3	99.2	91.8	79.0	91.8	95.5	102.9	80.8	82.7
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)