

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: P654481

Luminaire Tested: **GLAN-SA7B-840-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P654481  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7B-840-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 800mA 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: 33037 lumens  
Efficiency: N/A  
Efficacy: 115.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

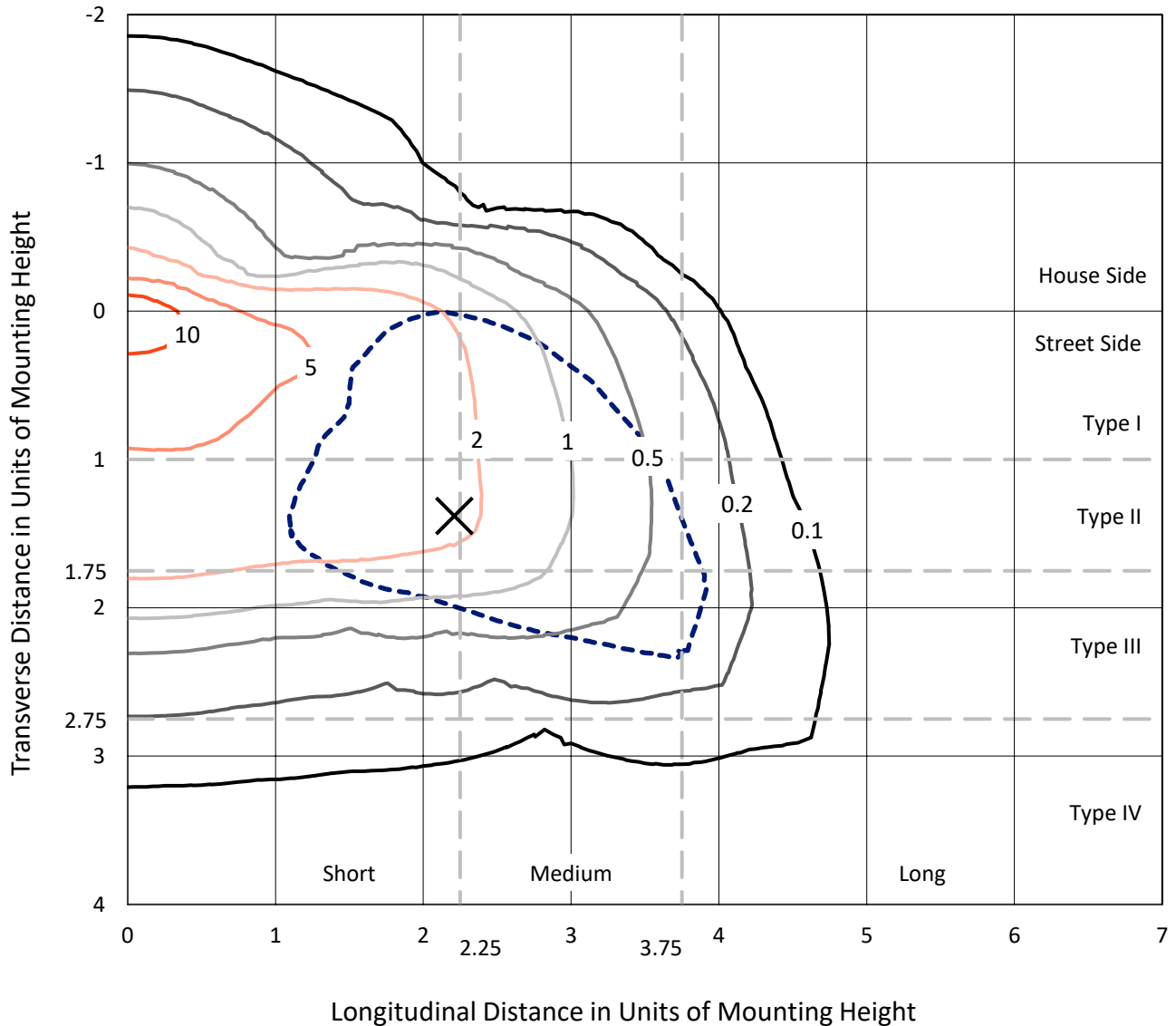
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

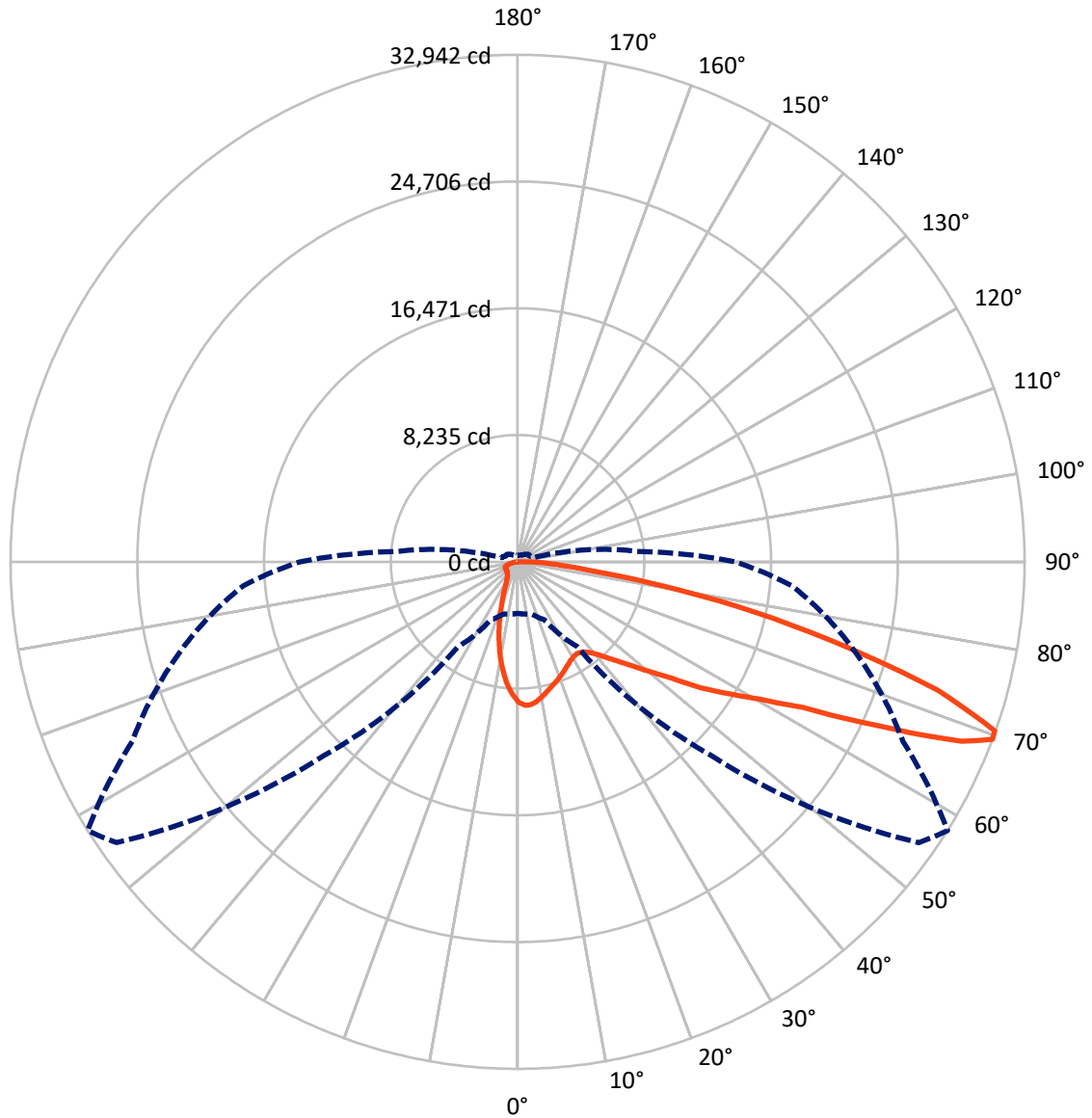
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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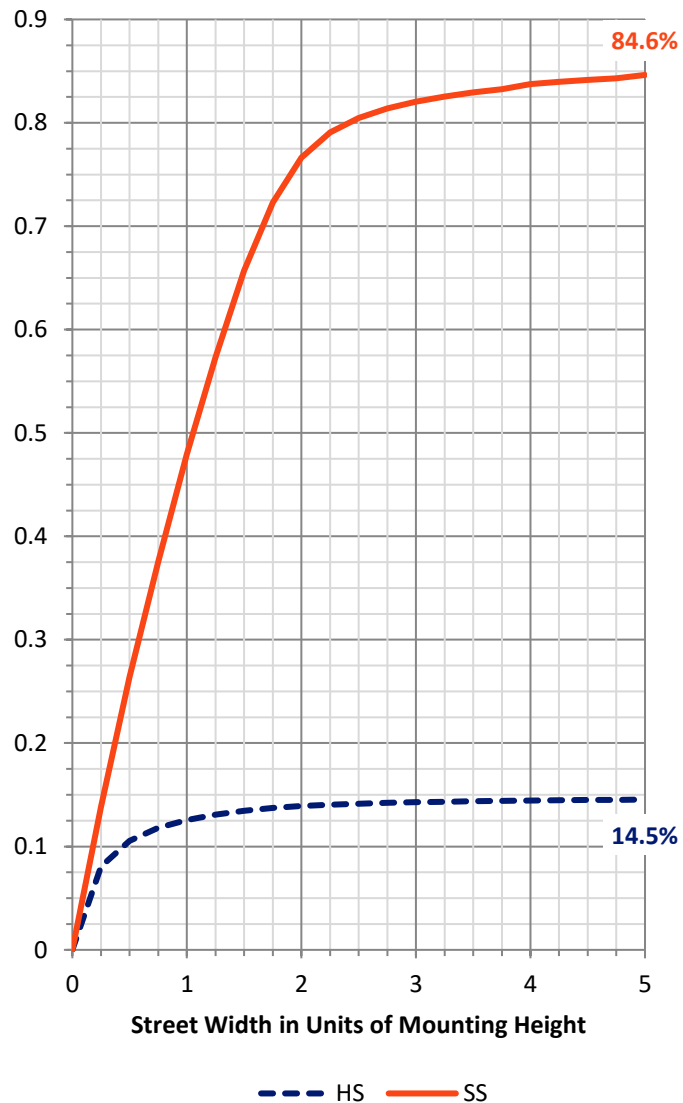
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4841.6	0.0	4841.6
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	28195.4	0.0	28195.4
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	33037.0	0.0	33037.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	775.3	2.3
10°-20°	1702.5	5.2
20°-30°	2199.6	6.7
30°-40°	2856.9	8.6
40°-50°	4153.5	12.6
50°-60°	6627.6	20.1
60°-70°	8853.6	26.8
70°-80°	5103.7	15.4
80°-90°	764.4	2.3
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°	33037.0	100.0
0°-180°	33037.0	100.0

**Coefficient of Utilization**



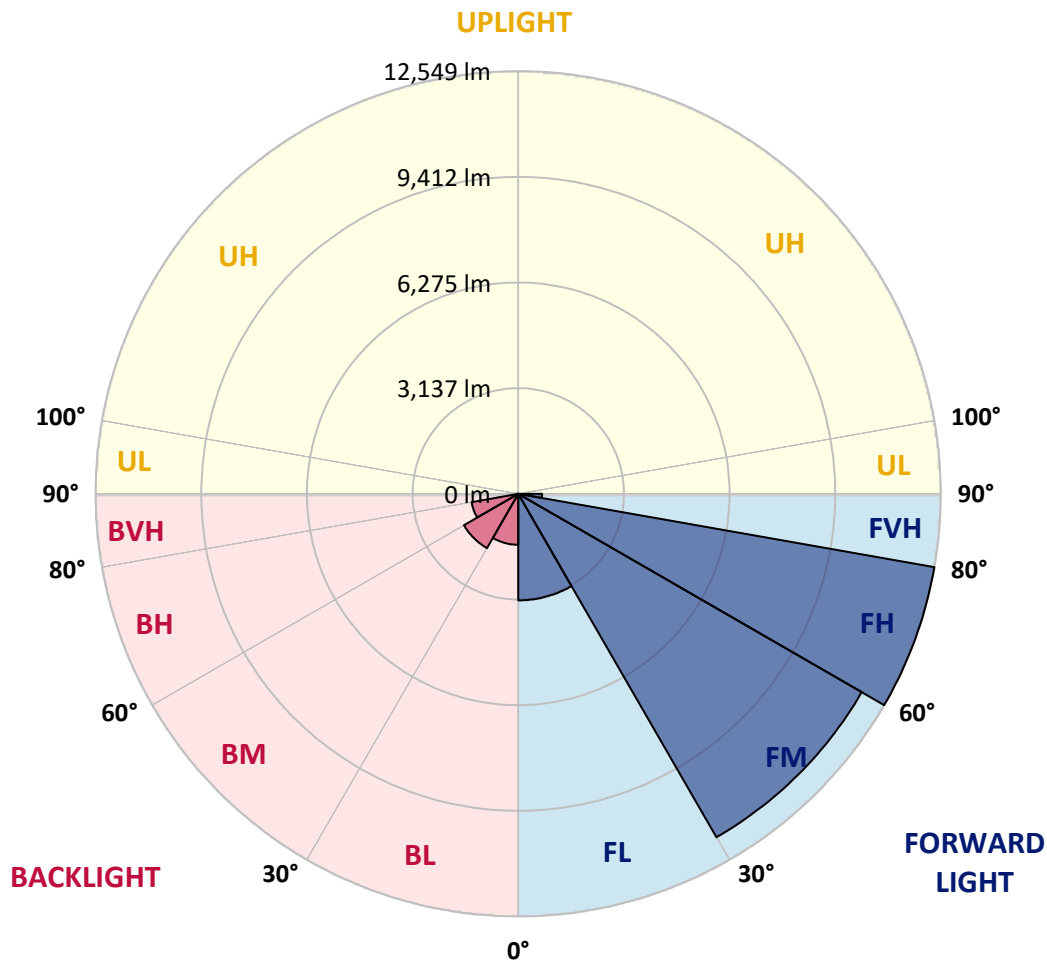
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3164.1	9.6			
FM (30°-60°)	11776.0	35.6			
FH (60°-80°)	12549.5	38.0			G5
FVH (80°-90°)	705.9	2.1			G4/750
BL (0°-30°)	1513.3	4.6	B3/2500		
BM (30°-60°)	1861.9	5.6	B2/2500		
BH (60°-80°)	1407.8	4.3	B3/2500		G3/2500
BVH (80°-90°)	58.6	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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9129.5	9129.5	9129.5	9129.5	9129.5	9129.5	9129.5	9129.5	9129.5	9129.5	9129.5
2.5°	9468.5	9494.3	9486.9	9477.7	9463.0	9422.5	9356.1	9345.0	9302.7	9212.4	9100.0
5°	9323.0	9345.0	9346.9	9359.8	9378.2	9370.8	9323.0	9317.4	9254.8	9133.2	8945.2
7.5°	8823.6	8853.1	8917.6	8989.4	9054.0	9114.8	9129.5	9138.7	9100.0	8960.0	8709.4
10°	8261.6	8291.2	8320.7	8427.5	8585.9	8737.1	8862.4	8878.9	8888.1	8759.2	8453.3
12.5°	7638.9	7699.7	7762.3	7920.8	8132.7	8370.4	8591.5	8626.5	8689.1	8591.5	8232.2
15°	7110.2	7172.8	7263.0	7404.9	7661.0	8003.7	8315.1	8372.2	8495.7	8445.9	8025.8
17.5°	6743.5	6765.6	6828.2	6990.4	7266.7	7627.9	8044.2	8158.5	8355.7	8342.7	7849.0
20°	6454.2	6481.8	6520.5	6620.0	6907.5	7288.9	7791.9	7939.3	8206.4	8250.6	7674.0
22.5°	6332.6	6352.9	6347.4	6400.8	6596.0	6979.3	7535.8	7710.8	8073.8	8188.0	7511.8
25°	6340.0	6358.4	6330.8	6317.8	6433.9	6706.6	7268.6	7491.5	7966.9	8145.6	7364.4
27.5°	6463.4	6476.3	6424.7	6373.2	6382.3	6537.1	7047.5	7294.4	7876.6	8164.0	7240.9
30°	6629.3	6653.2	6620.0	6557.4	6489.2	6496.6	6905.6	7148.8	7834.3	8228.5	7182.0
32.5°	6843.0	6865.1	6850.4	6800.6	6712.2	6614.5	6870.6	7095.4	7838.0	8359.4	7169.1
35°	7067.8	7112.0	7136.0	7132.3	7060.4	6890.9	7008.8	7194.9	7926.3	8578.6	7244.6
37.5°	7322.0	7358.8	7462.0	7528.4	7462.0	7264.9	7320.1	7449.2	8121.6	8895.5	7410.5
40°	7568.9	7624.2	7775.3	7981.6	7955.9	7782.6	7795.6	7880.3	8466.2	9367.1	7734.8
42.5°	7826.9	7893.2	8156.7	8462.5	8523.3	8388.8	8423.8	8499.4	8956.3	10021.3	8291.2
45°	8158.5	8237.8	8562.0	8943.4	9183.0	9100.0	9199.5	9236.4	9612.2	10872.4	9024.4
47.5°	8585.9	8678.1	9077.9	9553.3	9892.3	9967.8	10141.0	10118.9	10424.8	11880.3	9975.2
50°	9306.3	9358.0	9735.7	10220.3	10686.4	11027.3	11215.2	11250.2	11432.6	12860.5	11038.3
52.5°	10163.1	10209.2	10481.9	10905.7	11489.7	12212.0	12676.3	12562.0	12606.3	14054.5	12282.0
55°	11126.8	11204.1	11377.3	11659.2	12416.4	13479.6	14411.9	14439.5	13949.4	15196.8	13474.1
57.5°	11873.0	12003.8	12300.4	12702.0	13662.0	14889.1	16142.0	16160.4	15533.9	16416.5	14789.6
60°	11497.1	11651.9	12329.9	13308.2	15296.3	17348.8	18209.2	18104.2	17076.1	17805.7	16394.4
62.5°	9875.7	9903.4	10889.1	12418.3	15799.3	20639.5	21286.2	20842.2	19134.2	19567.1	18025.0
65°	6391.6	6572.2	7353.4	9496.2	14146.5	22465.4	26677.3	25651.0	22019.5	21566.3	19390.3
67.5°	4035.0	3988.9	4313.2	5422.4	9730.1	20856.9	31278.0	31115.8	25792.9	22828.4	19064.1
69°	3345.9	3397.6	3508.1	4156.6	6695.5	17807.6	31821.5	32941.7	27622.5	22728.9	17879.4
70°	3034.6	3058.5	3174.6	3684.9	5166.3	14914.9	30929.7	32891.9	28341.0	22312.5	17020.8
72.5°	2408.1	2406.3	2605.2	3065.9	3861.9	8514.1	25396.8	28556.6	27537.7	20374.2	14063.6
75°	1829.6	1859.0	2078.3	2594.2	3557.9	4652.2	17722.8	21991.8	21993.7	16092.2	8775.8
77.5°	1319.2	1337.6	1593.8	2177.9	3351.5	3771.5	11804.8	15773.5	14828.3	7373.6	2758.2
80°	864.1	875.1	1070.5	1724.6	3021.6	3557.9	6999.6	9654.6	6994.1	1956.8	912.1
82.5°	473.5	528.8	654.0	1116.5	2424.7	3287.0	4254.3	4886.3	2623.7	871.5	475.3
85°	237.7	252.4	368.5	652.3	1584.5	2719.5	2962.7	2802.4	1354.3	432.9	246.9
87.5°	70.1	88.5	152.9	252.4	643.0	1416.8	1649.0	1479.5	521.4	156.6	51.6
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°	9129.5	9129.5	9129.5	9129.5	9129.5	9129.5	9129.5	9129.5	9129.5	9129.5	9129.5
2.5°	9054.0	9020.8	8873.4	8740.8	8619.2	8490.1	8381.4	8285.6	8294.9	8296.7	8199.1
5°	8847.6	8772.1	8492.0	8230.4	8009.3	7729.2	7489.7	7334.9	7257.5	7154.4	7191.2
7.5°	8567.5	8421.9	8033.2	7598.4	7191.2	6828.2	6433.9	6163.1	5989.9	5822.2	5844.4
10°	8278.3	8044.2	7478.6	6903.8	6376.8	5796.4	5293.4	4862.3	4541.7	4422.0	4342.8
12.5°	7981.6	7674.0	6955.4	6190.8	5463.0	4768.3	4055.3	3592.8	3239.1	3051.1	3075.1
15°	7710.8	7336.8	6410.0	5477.7	4532.5	3705.2	2994.0	2553.7	2306.8	2255.2	2284.7
17.5°	7460.2	6970.1	5899.6	4785.0	3681.3	2778.5	2249.7	2000.9	1901.4	1873.8	1872.0
20°	7202.2	6658.7	5326.6	4044.3	2868.7	2153.9	1846.2	1730.1	1711.7	1722.7	1724.6
22.5°	6940.6	6273.6	4737.0	3309.1	2284.7	1761.4	1614.0	1582.7	1597.4	1623.2	1626.9
25°	6699.2	5934.6	4169.5	2664.2	1824.0	1547.7	1475.8	1475.8	1509.0	1547.7	1549.5
27.5°	6500.3	5606.7	3603.9	2115.2	1527.4	1392.9	1369.0	1381.8	1427.9	1457.4	1459.2
30°	6336.3	5300.8	3069.6	1695.1	1343.2	1269.5	1263.9	1286.1	1319.2	1346.9	1348.7
32.5°	6212.9	5031.8	2570.3	1424.2	1216.0	1175.5	1173.7	1190.3	1208.7	1216.0	1223.4
35°	6165.0	4808.8	2113.3	1252.9	1131.3	1105.5	1105.5	1103.6	1111.0	1114.7	1118.4
37.5°	6203.6	4637.5	1759.5	1142.3	1068.7	1050.2	1039.1	1028.1	1024.4	1024.4	1026.3
40°	6367.6	4547.2	1496.1	1070.5	1024.4	996.8	976.5	963.6	950.8	954.4	958.1
42.5°	6715.8	4563.9	1317.3	1022.6	985.7	947.1	917.5	902.8	893.6	904.7	902.8
45°	7270.4	4729.6	1203.1	989.4	947.1	897.3	869.7	854.9	854.9	871.5	877.0
47.5°	8046.1	5046.6	1142.3	963.6	917.5	858.6	831.0	819.9	823.6	851.3	853.1
50°	8993.1	5597.4	1131.3	950.8	902.8	831.0	799.6	788.6	797.8	827.3	831.0
52.5°	10037.8	6306.8	1184.7	952.6	889.9	814.3	773.8	757.2	766.5	790.5	797.8
55°	11276.0	7194.9	1322.9	959.9	871.5	805.2	755.4	718.6	729.7	746.2	748.1
57.5°	12539.9	8315.1	1566.1	961.8	856.7	788.6	724.1	676.2	676.2	687.3	692.7
60°	14083.9	9534.8	1886.7	963.6	858.6	764.6	681.7	628.3	620.9	626.5	628.3
62.5°	15616.9	10555.6	1940.1	958.1	877.0	740.7	635.6	580.4	567.5	565.7	562.0
65°	16293.0	10365.8	1590.1	932.3	897.3	726.0	598.8	534.3	512.2	504.9	504.9
67.5°	15191.2	8768.4	1195.7	897.3	884.4	711.2	563.8	495.6	469.9	455.1	455.1
69°	14155.8	7799.2	1074.1	873.3	851.3	687.3	541.7	475.3	444.0	427.5	421.9
70°	13356.2	7132.3	1022.6	853.1	819.9	659.6	525.1	460.6	425.6	407.2	403.5
72.5°	10658.7	5595.6	895.4	775.7	698.3	554.6	466.2	414.5	381.4	361.1	355.6
75°	6142.8	3032.7	742.5	674.3	562.0	431.2	394.3	361.1	335.3	316.9	311.3
77.5°	1890.4	1171.8	538.0	532.4	412.7	333.5	315.0	302.2	283.8	263.5	259.8
80°	795.9	596.9	364.8	359.3	274.5	232.1	226.6	224.8	217.4	200.8	195.3
82.5°	436.6	337.2	254.2	221.1	165.8	134.5	140.0	141.9	136.3	119.8	108.7
85°	213.7	184.3	123.5	99.5	75.5	47.9	46.1	55.3	51.6	36.8	40.5
87.5°	42.4	51.6	33.1	14.7	7.4	0.0	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)