

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: P320002

Luminaire Tested: **GAN-SA8B-740-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320002  
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-SA8B-740-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 800mA 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: 43520 lumens  
Efficiency: N/A  
Efficacy: 130.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

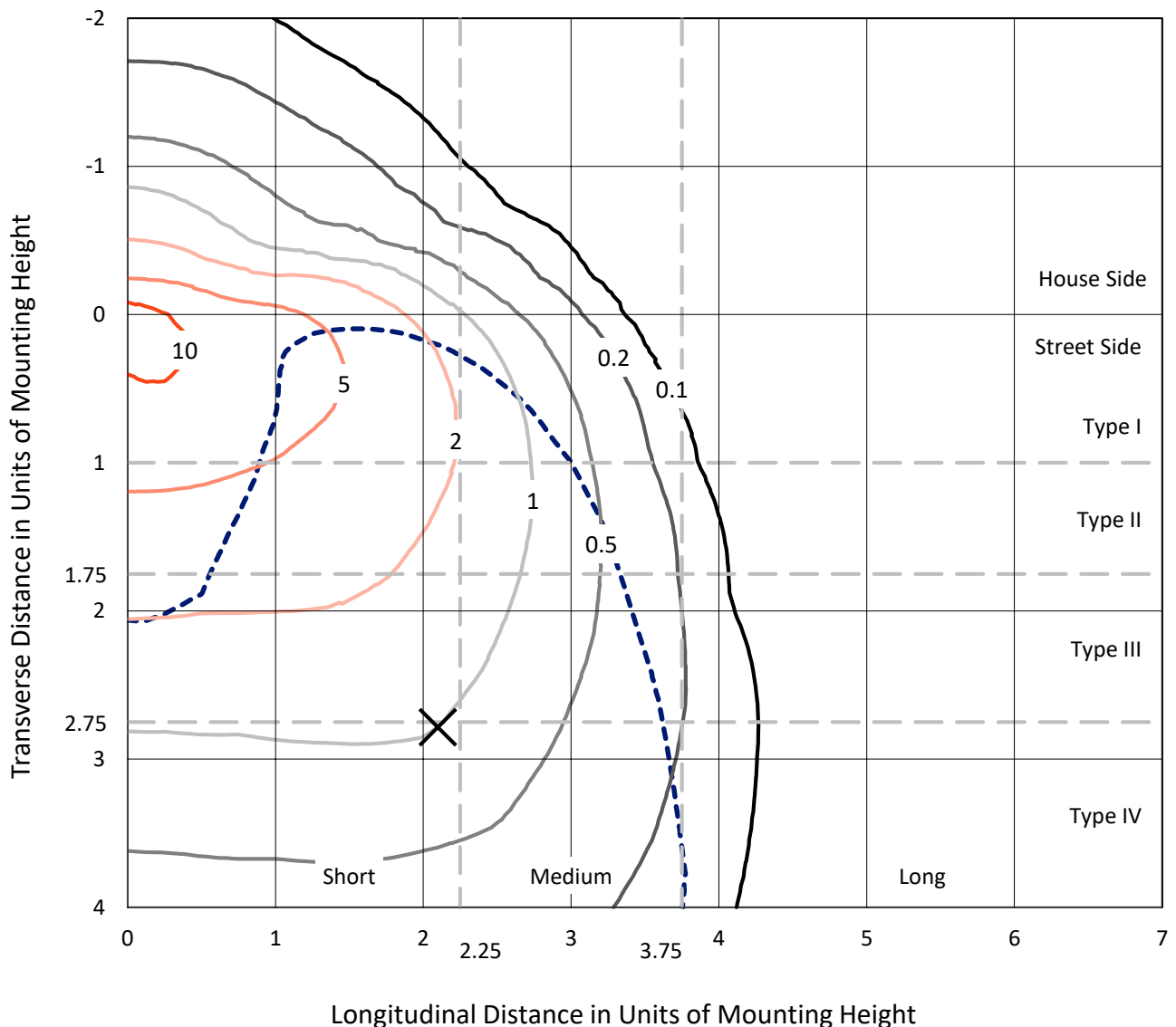
Input Watts (W): 334  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

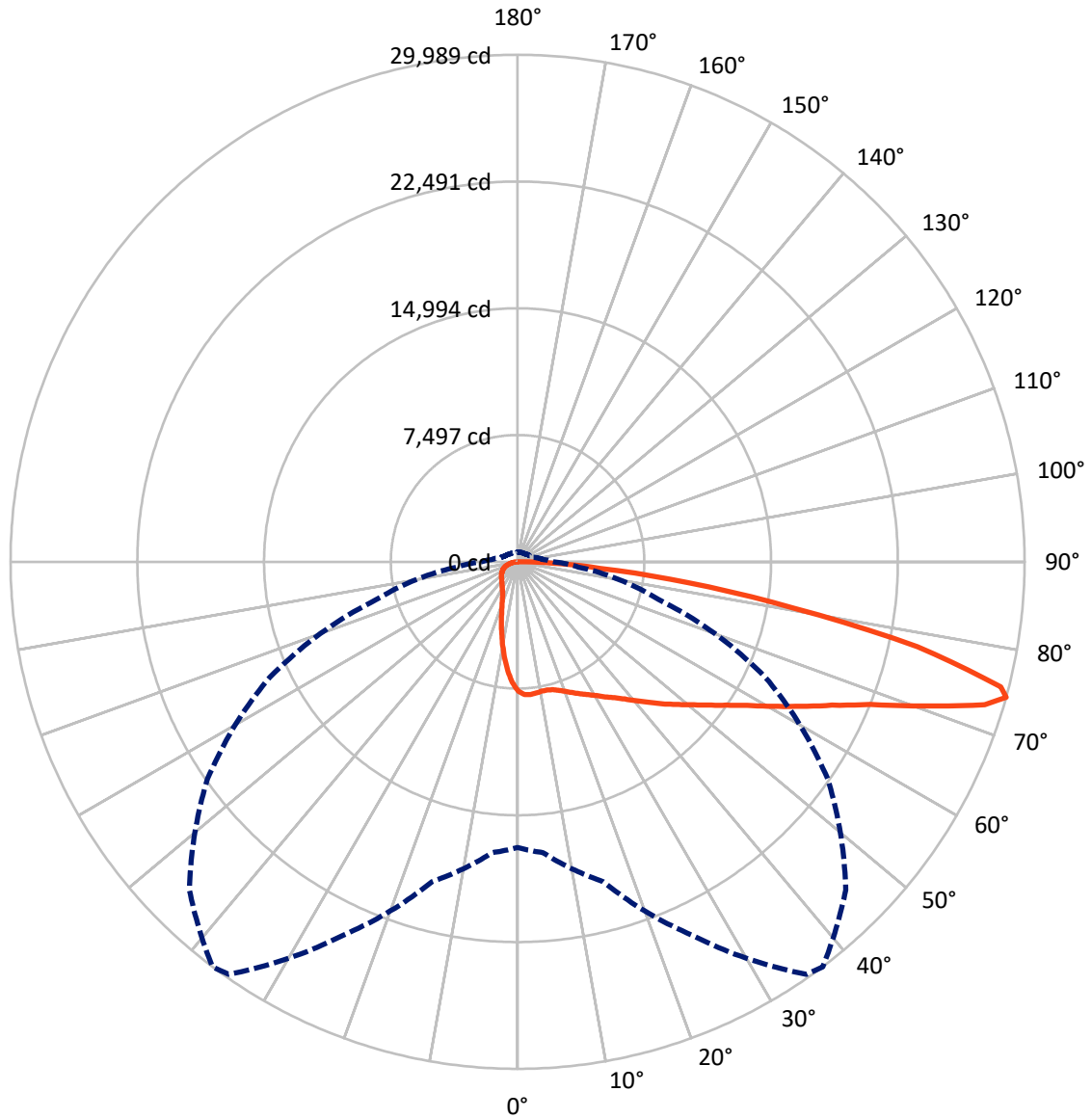
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 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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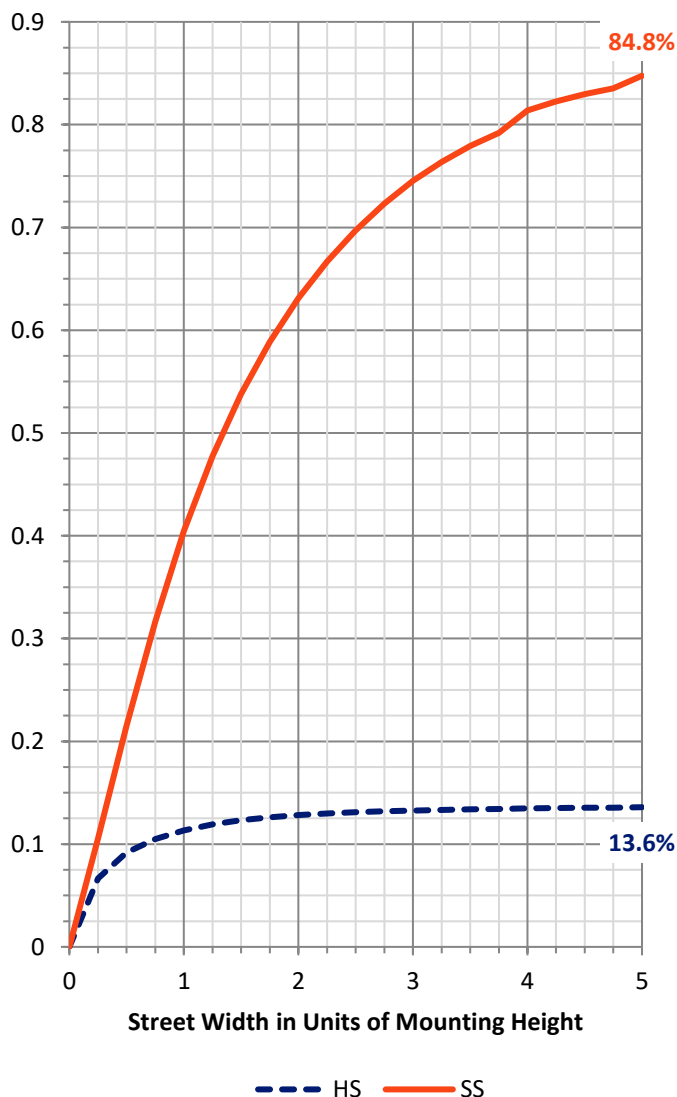
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5988.0	0.0	5988.0
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	37532.0	0.0	37532.0
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	43520.0	0.0	43520.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	675.3	1.6
10°-20°	1730.9	4.0
20°-30°	2666.9	6.1
30°-40°	3878.1	8.9
40°-50°	5707.9	13.1
50°-60°	8015.7	18.4
60°-70°	10145.4	23.3
70°-80°	8933.4	20.5
80°-90°	1766.3	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°	43520.0	100.0
0°-180°	43520.0	100.0

**Coefficient of Utilization**

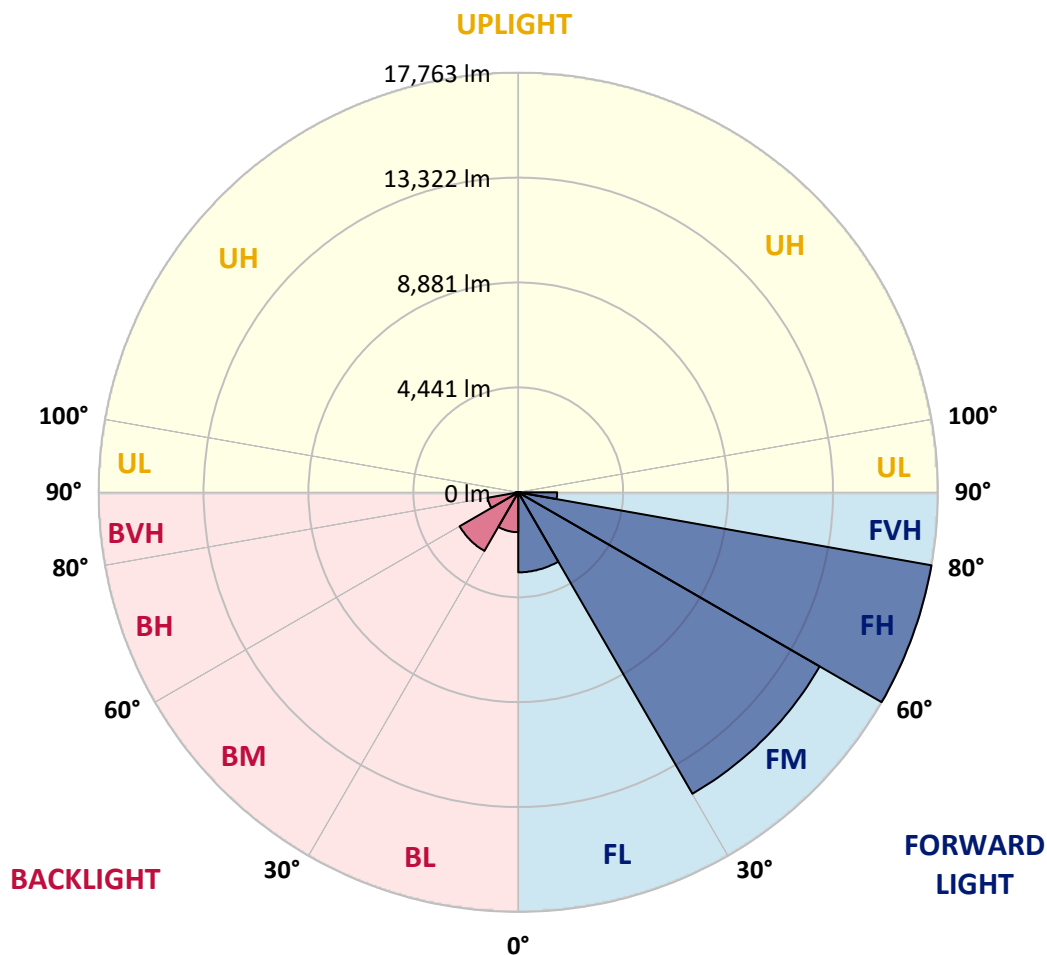


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3386.4	7.8			
FM (30°-60°)	14736.2	33.9			
FH (60°-80°)	17762.6	40.8			G5
FVH (80°-90°)	1646.7	3.8			G5
BL (0°-30°)	1686.7	3.9	B3/2500		
BM (30°-60°)	2865.5	6.6	B3/5000		
BH (60°-80°)	1316.2	3.0	B3/2500		G3/2500
BVH (80°-90°)	119.6	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°	7668.1	7668.1	7668.1	7668.1	7668.1	7668.1	7668.1	7668.1	7668.1	7668.1	7668.1
2.5°	7930.2	7931.7	7930.2	7917.9	7888.8	7864.3	7844.4	7815.2	7750.8	7701.8	7628.2
5°	8005.3	7996.1	7990.0	7967.0	7921.0	7893.4	7855.1	7799.9	7694.1	7596.0	7476.4
7.5°	7970.1	7959.3	7945.5	7917.9	7865.8	7842.8	7789.2	7717.1	7589.9	7461.1	7289.4
10°	7861.2	7858.1	7852.0	7845.9	7801.4	7783.0	7734.0	7657.3	7531.6	7375.3	7174.4
12.5°	7740.1	7747.8	7772.3	7804.5	7784.6	7775.4	7744.7	7692.6	7563.8	7395.2	7153.0
15°	7663.5	7684.9	7750.8	7835.2	7852.0	7848.9	7841.3	7807.6	7671.1	7484.1	7202.0
17.5°	7637.4	7672.7	7798.4	7937.9	7986.9	7997.6	8000.7	7942.5	7790.7	7592.9	7252.6
20°	7684.9	7729.4	7913.3	8105.0	8183.1	8189.3	8175.5	8074.3	7904.1	7686.5	7280.2
22.5°	7829.0	7868.9	8098.8	8315.0	8403.9	8413.1	8371.7	8218.4	8023.7	7796.8	7318.5
25°	8106.5	8155.5	8385.5	8601.7	8647.6	8649.2	8589.4	8399.3	8180.1	7951.7	7401.3
27.5°	8468.3	8517.3	8724.3	8935.8	8911.3	8897.5	8816.3	8626.2	8384.0	8164.7	7548.5
30°	8871.5	8925.1	9121.3	9271.6	9213.3	9185.7	9119.8	8874.5	8667.6	8456.0	7773.8
32.5°	9288.4	9337.5	9509.2	9611.9	9538.3	9526.0	9426.4	9202.6	9037.0	8900.6	8138.7
35°	9716.1	9751.4	9920.0	9978.3	9880.2	9877.1	9849.5	9644.1	9539.8	9604.2	8669.1
37.5°	10153.0	10162.2	10306.3	10309.4	10280.3	10292.5	10321.7	10192.9	10222.0	10422.9	9359.0
40°	10542.4	10567.0	10671.2	10703.4	10754.0	10796.9	10942.5	10858.2	11083.6	11439.2	10217.4
42.5°	10830.6	10878.2	11045.2	11128.0	11292.1	11359.5	11564.9	11643.1	12096.9	12630.4	11238.4
45°	11074.4	11148.0	11416.2	11586.4	11863.9	11981.9	12276.2	12538.4	13242.0	13922.7	12313.0
47.5°	11338.1	11431.6	11767.3	12092.3	12469.4	12602.8	13137.8	13530.2	14463.8	15222.7	13326.4
50°	11725.9	11798.0	12126.0	12636.5	13107.1	13278.8	14019.3	14581.9	15705.6	16461.3	14204.8
52.5°	12267.0	12239.5	12516.9	13232.8	13864.4	14076.0	14960.5	15701.0	16964.2	17582.0	14946.7
55°	12811.3	12765.3	12960.0	13856.8	14747.4	14969.7	15996.8	16824.7	18161.4	18590.7	15515.5
57.5°	13416.8	13329.4	13493.4	14560.4	15753.1	16018.3	17157.3	18018.9	19338.8	19406.2	15877.3
60°	14040.7	13922.7	14106.6	15432.7	17030.1	17342.8	18515.5	19183.9	20448.7	20059.3	15993.8
62.5°	14586.5	14503.7	14787.3	16406.1	18469.6	18812.9	19849.3	20422.6	21543.2	20330.6	15573.7
65°	15063.2	15077.0	15567.6	17500.7	20074.6	20441.0	21379.2	21949.5	22404.8	20169.7	14591.1
67.5°	15632.0	15710.2	16547.2	18941.7	22095.1	22496.7	23605.1	23614.3	22886.1	19225.3	12656.4
70°	16461.3	16622.3	17894.7	20940.8	24967.9	25519.8	26375.2	24592.4	22210.1	16665.2	9958.4
72.5°	17197.2	17497.6	19328.0	23228.0	28469.3	28887.8	27995.6	24028.2	19384.8	12489.3	6204.0
74°	16898.2	17270.8	19588.6	24354.7	29787.7	29988.5	27448.3	22381.8	16162.4	8649.2	3605.6
75°	16254.4	16659.1	19208.5	24344.0	29620.6	29508.7	26126.9	20500.8	13311.0	5899.0	2399.1
77.5°	13117.9	13545.6	16185.4	20864.1	24287.3	24181.5	20070.0	13752.5	5830.0	1934.6	1218.7
80°	7626.7	7953.2	10047.3	13249.7	16377.0	16568.6	13199.1	6805.0	2293.4	1086.9	826.3
82.5°	3387.9	3613.3	4853.5	6763.6	9883.2	10130.0	6912.3	3565.8	1416.5	660.7	496.7
85°	2222.8	2389.9	2946.4	3220.8	4706.3	4874.9	3383.3	2776.3	935.1	363.3	364.9
87.5°	1598.9	1759.9	2189.1	1911.6	2160.0	2045.0	1841.1	2569.3	375.6	207.0	122.6
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°	7668.1	7668.1	7668.1	7668.1	7668.1	7668.1	7668.1	7668.1	7668.1	7668.1	7668.1
2.5°	7596.0	7571.5	7516.3	7412.0	7353.8	7304.7	7223.5	7176.0	7154.5	7153.0	7162.2
5°	7407.4	7350.7	7208.2	7033.4	6893.9	6766.7	6608.8	6513.7	6446.3	6406.4	6417.1
7.5°	7188.2	7099.3	6875.5	6596.5	6372.7	6125.9	5882.1	5736.5	5623.0	5538.7	5554.1
10°	7038.0	6915.4	6588.8	6187.2	5814.7	5455.9	5120.2	4919.4	4760.0	4637.3	4646.5
12.5°	6987.4	6821.8	6369.6	5833.1	5310.3	4819.7	4381.3	4073.2	3909.1	3769.6	3780.4
15°	6995.1	6772.8	6185.6	5514.2	4856.5	4238.7	3706.8	3346.5	3124.2	3027.7	3029.2
17.5°	7001.2	6716.1	5992.5	5172.3	4407.4	3696.1	3118.1	2753.3	2543.2	2454.3	2455.9
20°	6981.3	6624.1	5753.3	4779.9	3938.3	3197.8	2638.3	2328.6	2169.2	2100.2	2100.2
22.5°	6955.2	6515.2	5483.5	4385.9	3475.3	2765.5	2294.9	2058.8	1966.8	1920.8	1919.3
25°	6967.5	6434.0	5207.6	3981.2	3049.1	2420.6	2066.5	1910.1	1848.8	1819.7	1818.1
27.5°	7033.4	6395.7	4953.1	3578.0	2676.6	2161.5	1913.2	1802.8	1762.9	1744.6	1744.6
30°	7153.0	6395.7	4687.9	3234.6	2366.9	1969.9	1795.1	1720.0	1692.4	1680.2	1680.2
32.5°	7361.5	6430.9	4431.9	2894.3	2120.1	1819.7	1697.0	1646.4	1625.0	1618.8	1618.8
35°	7720.2	6550.5	4182.0	2572.4	1920.8	1697.0	1603.5	1574.4	1559.1	1557.5	1562.1
37.5°	8224.5	6794.2	3947.5	2334.8	1779.8	1597.4	1525.3	1502.3	1493.1	1500.8	1506.9
40°	8859.2	7125.4	3734.4	2120.1	1672.5	1517.7	1453.3	1438.0	1433.4	1444.1	1453.3
42.5°	9625.7	7573.0	3559.6	1965.3	1589.7	1450.2	1392.0	1373.6	1369.0	1381.2	1393.5
45°	10455.0	8054.4	3437.0	1850.3	1525.3	1399.6	1338.3	1318.4	1309.2	1315.3	1329.1
47.5°	11209.3	8509.7	3387.9	1769.1	1464.0	1356.7	1290.8	1266.3	1250.9	1247.9	1258.6
50°	11845.5	8848.5	3410.9	1720.0	1415.0	1309.2	1244.8	1217.2	1194.2	1180.4	1188.1
52.5°	12308.4	9061.6	3432.4	1698.6	1376.6	1257.1	1194.2	1168.1	1137.5	1114.5	1114.5
55°	12644.2	9110.6	3384.9	1681.7	1347.5	1200.3	1137.5	1113.0	1082.3	1056.2	1053.2
57.5°	12776.0	8972.6	3208.6	1657.2	1327.6	1146.7	1077.7	1059.3	1033.2	1002.6	1001.0
60°	12598.2	8546.5	2868.2	1605.0	1301.5	1102.2	1017.9	1005.6	993.4	964.3	962.7
62.5°	11883.8	7611.3	2428.3	1499.3	1249.4	1054.7	962.7	968.9	970.4	950.5	947.4
65°	10588.4	6326.7	1999.0	1361.3	1171.2	998.0	906.0	935.1	952.0	948.9	944.3
67.5°	8705.9	4924.0	1694.0	1215.7	1068.5	919.8	844.7	878.4	892.2	902.9	899.9
70°	6461.6	3472.2	1401.2	1062.4	944.3	827.8	765.0	781.8	772.6	784.9	789.5
72.5°	3602.5	2083.3	1142.1	909.1	815.6	720.5	676.1	673.0	653.1	653.1	653.1
74°	2161.5	1528.4	1004.1	814.0	737.4	650.0	611.7	597.9	579.5	581.0	579.5
75°	1738.4	1313.8	921.3	751.2	682.2	608.6	570.3	551.9	538.1	538.1	536.5
77.5°	1097.6	998.0	742.0	597.9	545.7	501.3	475.2	450.7	450.7	449.2	447.6
80°	829.4	794.1	577.9	452.2	418.5	384.8	367.9	357.2	357.2	361.8	360.3
82.5°	568.7	597.9	406.2	315.8	298.9	274.4	271.3	272.9	268.3	262.1	260.6
85°	415.4	449.2	274.4	199.3	182.4	167.1	179.4	185.5	177.8	164.0	157.9
87.5°	159.4	294.3	147.2	82.8	76.6	65.9	76.6	79.7	85.8	67.5	69.0
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)