

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: P322537

Luminaire Tested: **GAN-SA3D-730-U-T4FT-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322537  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA3D-730-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15320 lumens  
Efficiency: N/A  
Efficacy: 80.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

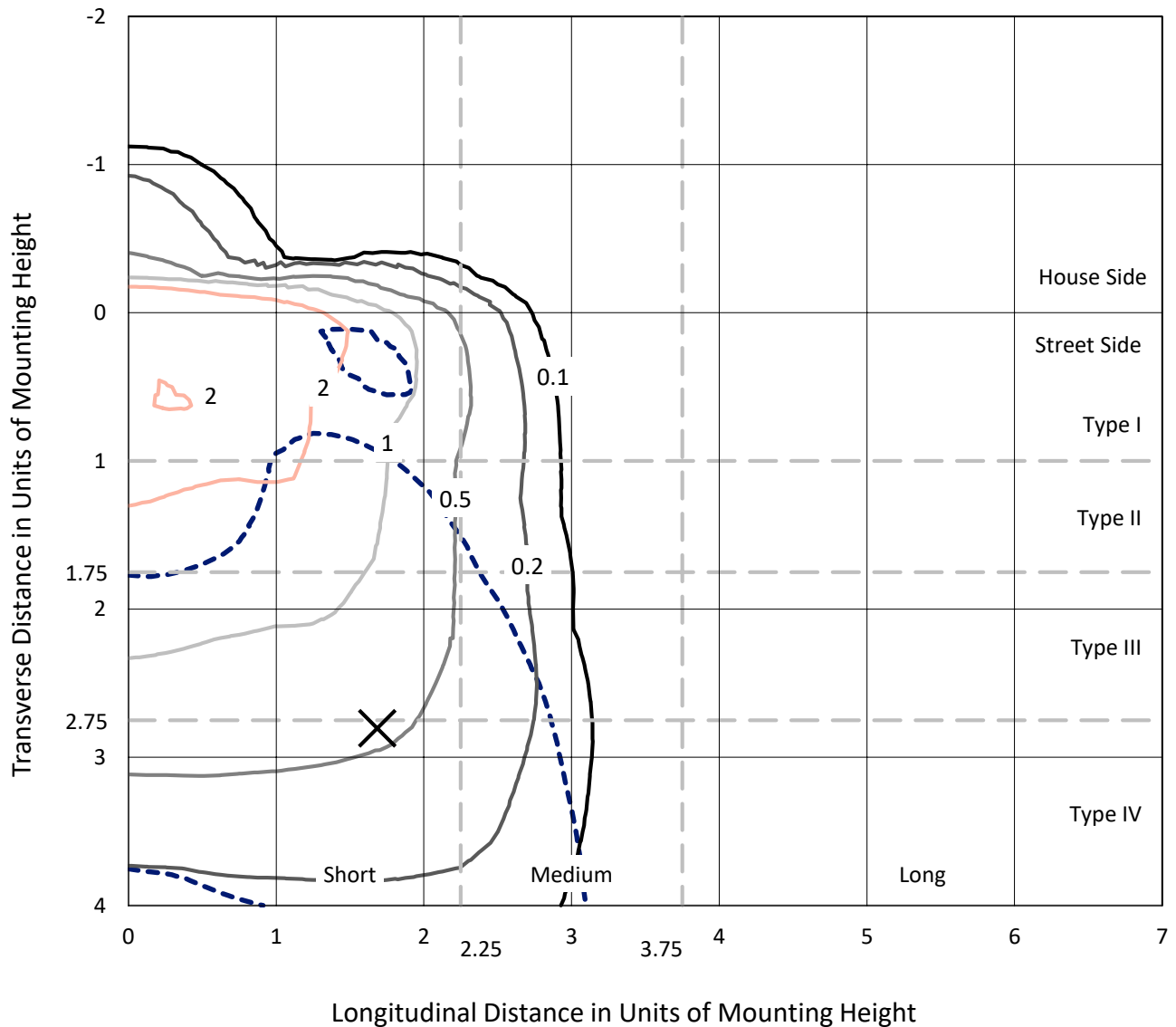
Input Watts (W): 191  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

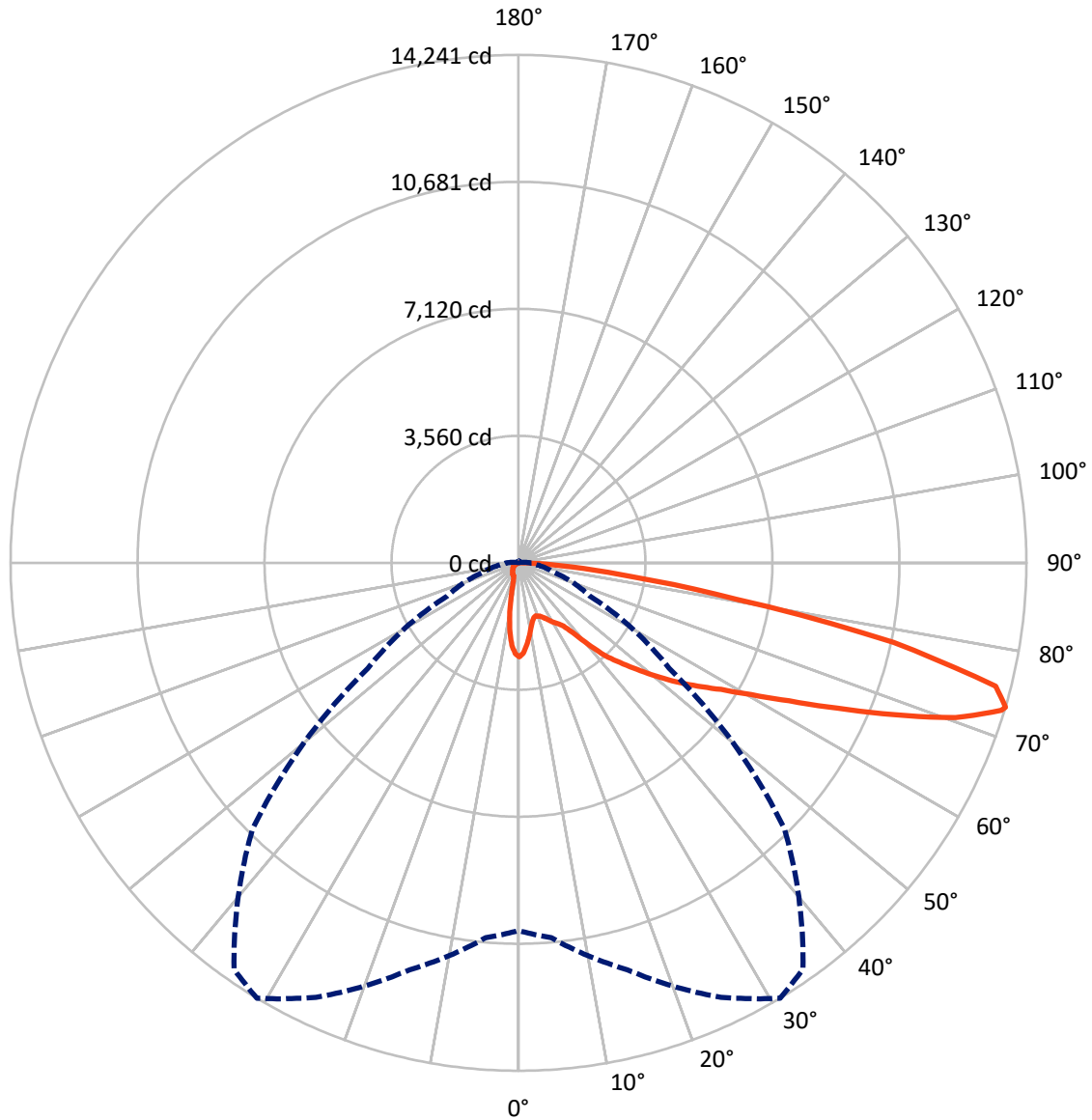
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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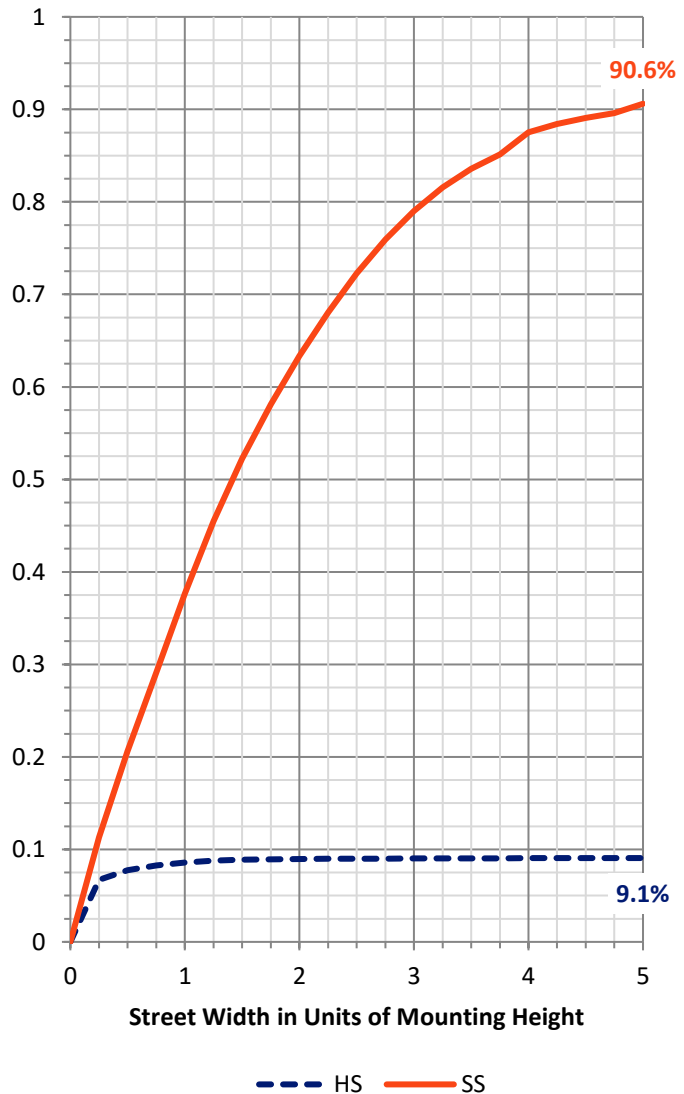
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1396.5	0.0	1396.5
	% Fixture	9.1	0.0	9.1
<b>Street Side</b>	Lumens	13923.5	0.0	13923.5
	% Fixture	90.9	0.0	90.9
<b>Total</b>	Lumens	15320.0	0.0	15320.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	218.5	1.4
10°-20°	474.5	3.1
20°-30°	711.0	4.6
30°-40°	1131.2	7.4
40°-50°	2020.0	13.2
50°-60°	3134.4	20.5
60°-70°	4166.8	27.2
70°-80°	3134.3	20.5
80°-90°	329.3	2.1
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°	15320.0	100.0
0°-180°	15320.0	100.0

**Coefficient of Utilization**

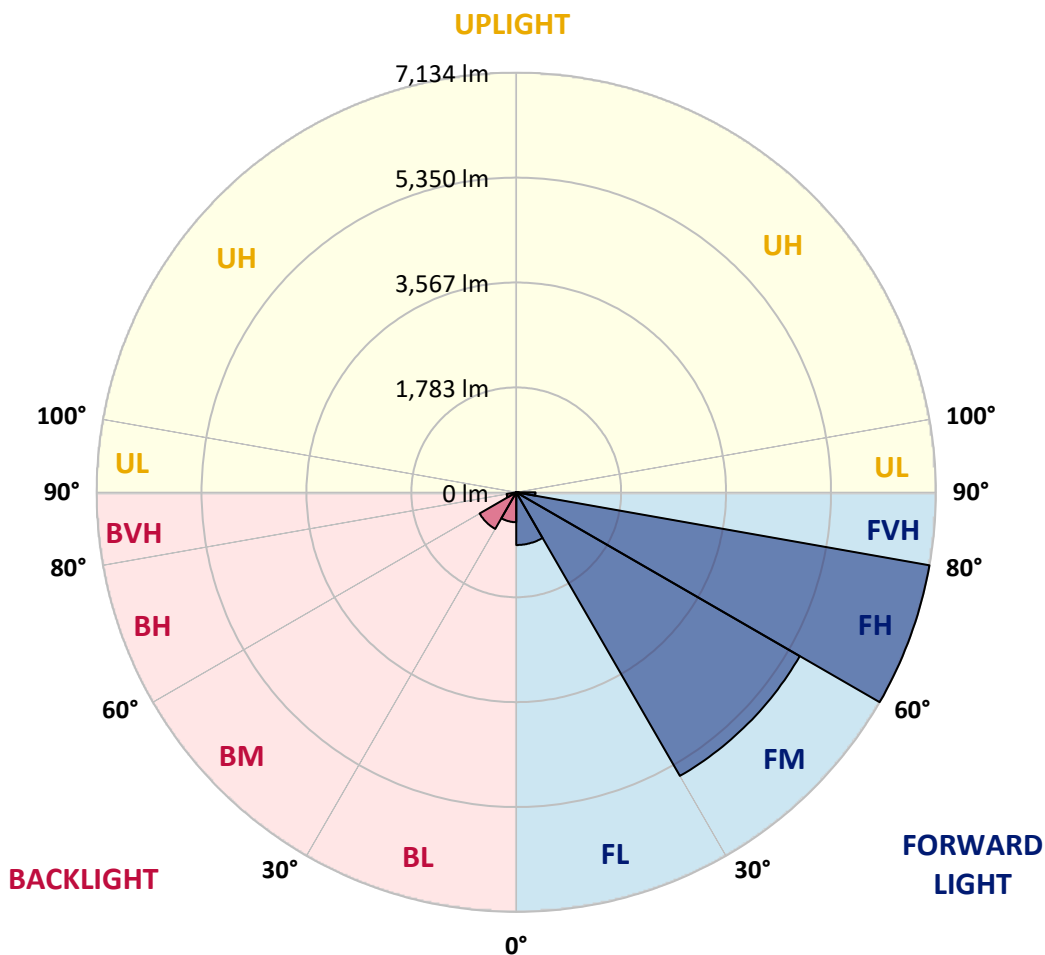


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	896.2	5.9			
FM (30°-60°)	5566.8	36.3			
FH (60°-80°)	7134.0	46.6			G3/7500
FVH (80°-90°)	326.6	2.1			G3/500
BL (0°-30°)	507.8	3.3	B2/1000		
BM (30°-60°)	718.8	4.7	B1/1000		
BH (60°-80°)	167.1	1.1	B1/500		G1/500
BVH (80°-90°)	2.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	2635.8	2635.8	2635.8	2635.8	2635.8	2635.8	2635.8	2635.8	2635.8	2635.8	2635.8
2.5°	2497.9	2508.4	2519.6	2521.9	2540.6	2541.4	2568.4	2588.6	2608.8	2628.3	2635.1
5°	2241.5	2258.8	2279.0	2299.2	2339.0	2354.7	2420.7	2488.2	2552.6	2614.1	2644.1
7.5°	1967.9	1987.4	2015.9	2066.1	2110.3	2141.1	2245.3	2365.2	2485.2	2598.4	2663.6
10°	1718.2	1736.2	1766.2	1819.4	1887.7	1929.6	2069.8	2236.3	2412.4	2584.1	2692.8
12.5°	1559.3	1569.1	1585.6	1642.5	1704.0	1751.2	1916.2	2122.3	2352.5	2583.4	2740.0
15°	1530.1	1533.1	1519.6	1545.1	1593.0	1638.8	1806.0	2030.1	2306.7	2595.4	2801.5
17.5°	1576.6	1575.1	1530.1	1527.1	1565.3	1602.8	1752.0	1966.4	2274.5	2623.1	2881.0
20°	1647.0	1641.8	1563.8	1549.6	1590.0	1625.3	1748.2	1942.4	2262.5	2669.6	2977.7
22.5°	1740.7	1731.7	1609.5	1594.5	1638.0	1674.8	1794.7	1965.6	2273.0	2731.8	3090.1
25°	1856.9	1843.4	1688.3	1671.8	1716.0	1752.7	1877.9	2032.4	2304.5	2807.5	3232.6
27.5°	1988.1	1968.6	1814.2	1771.5	1821.7	1859.9	1988.9	2134.3	2354.0	2887.7	3407.2
30°	2111.8	2086.3	1946.9	1876.4	1937.9	1980.6	2108.8	2255.8	2433.4	3011.4	3646.4
32.5°	2236.3	2207.8	2065.3	1981.4	2036.9	2083.3	2232.5	2422.9	2582.6	3200.3	3964.3
35°	2522.6	2492.7	2318.0	2179.3	2178.5	2204.8	2405.7	2651.6	2779.8	3463.5	4343.6
37.5°	3004.7	2987.4	2821.0	2557.9	2487.4	2458.2	2641.8	2924.5	3063.1	3825.6	4771.6
40°	3532.4	3517.4	3330.8	3092.4	2985.2	2913.2	2980.7	3304.5	3463.5	4267.9	5208.7
42.5°	4128.4	4057.2	3724.4	3653.1	3557.2	3502.5	3441.7	3773.1	3955.3	4749.2	5642.0
45°	4669.7	4549.7	4117.9	4010.0	3988.2	4001.7	4035.5	4402.8	4508.5	5321.2	6073.8
47.5°	4992.0	4897.6	4566.2	4462.8	4456.8	4546.0	4800.9	5114.2	5059.5	5819.7	6453.9
50°	5298.7	5213.2	4938.1	4963.6	4991.3	5112.7	5669.7	5845.9	5562.5	6271.7	6802.5
52.5°	5546.8	5416.4	5272.4	5415.6	5552.1	5747.7	6566.4	6502.6	5919.4	6631.6	7100.9
55°	5690.0	5630.8	5700.5	5844.4	6100.8	6418.7	7412.7	7049.1	6180.3	6959.9	7299.5
57.5°	6214.8	6098.6	6237.2	6361.7	6696.0	7140.6	8137.7	7456.2	6368.4	7163.1	7345.3
60°	6849.7	6756.0	6837.7	7044.6	7495.9	8018.5	8815.4	7788.3	6466.6	7293.5	7226.8
62.5°	7860.3	7736.6	7685.6	7917.3	8515.5	9086.0	9329.6	8018.5	6444.9	7235.8	6820.5
65°	9214.2	9086.0	8858.1	9068.0	9828.9	10231.5	9904.6	8067.2	6295.0	6768.8	5793.4
67.5°	10601.1	10508.1	10313.2	10667.0	11353.7	11483.4	10512.6	7948.7	5812.2	5488.3	4093.2
70°	11517.2	11477.4	11604.1	12386.8	12999.3	12961.8	11070.4	7312.3	4530.3	3375.0	2024.9
72.5°	10856.7	11047.1	11982.7	13401.8	14150.0	13844.1	10784.0	5615.0	2589.4	1298.4	585.5
73°	10309.5	10553.1	11812.5	13440.1	14240.7	13905.6	10543.3	5154.0	2207.0	1024.8	443.8
75°	7172.1	7471.2	9779.4	12517.2	13816.4	13248.9	8788.4	3154.6	1022.5	454.3	179.2
77.5°	3482.2	3703.4	5384.9	9044.0	10745.0	10351.4	5471.1	1175.5	461.8	284.1	82.5
80°	1299.9	1445.4	2337.5	4603.0	6209.5	6372.2	2406.4	444.6	307.4	228.6	42.0
82.5°	340.3	379.3	862.1	2052.6	3182.3	3330.8	758.7	224.2	224.9	188.2	25.5
85°	108.7	124.4	269.1	921.3	1499.3	1316.4	197.9	108.7	163.4	140.2	14.2
87.5°	13.5	17.2	85.5	216.7	330.6	183.7	30.7	32.2	69.7	78.0	8.2
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°	2635.8	2635.8	2635.8	2635.8	2635.8	2635.8	2635.8	2635.8	2635.8	2635.8	2635.8
2.5°	2641.8	2638.1	2638.8	2619.3	2606.6	2581.1	2554.9	2542.9	2530.1	2524.9	2530.1
5°	2655.3	2648.6	2629.1	2569.1	2505.4	2422.9	2345.7	2287.2	2213.8	2193.5	2214.5
7.5°	2676.3	2662.8	2605.9	2483.7	2342.0	2184.5	2007.6	1878.7	1773.0	1704.7	1729.5
10°	2707.1	2681.6	2566.9	2359.2	2105.8	1826.9	1575.8	1380.1	1241.5	1184.5	1182.2
12.5°	2758.8	2710.8	2518.9	2197.3	1817.2	1445.4	1116.3	904.1	791.7	718.9	717.4
15°	2815.8	2745.3	2458.2	2003.1	1481.3	1035.3	718.9	557.8	485.0	461.8	458.8
17.5°	2885.5	2785.0	2379.5	1764.0	1129.8	685.9	469.3	422.8	419.8	417.6	417.6
20°	2973.2	2832.3	2278.2	1490.3	801.4	458.0	398.8	401.8	403.3	400.3	401.1
22.5°	3075.1	2880.2	2157.5	1196.5	542.0	383.1	381.6	385.3	386.8	385.3	386.1
25°	3193.6	2935.7	2010.6	888.4	391.3	363.6	367.3	372.6	376.3	376.3	376.3
27.5°	3340.5	3003.2	1833.7	620.0	338.1	343.3	353.8	363.6	368.8	370.3	370.3
30°	3531.7	3087.1	1621.5	425.1	307.4	316.4	335.9	354.6	364.3	365.8	366.6
32.5°	3773.1	3181.6	1375.6	314.1	281.1	287.9	308.9	340.3	359.1	362.1	362.1
35°	4049.7	3291.0	1111.0	273.6	262.4	264.6	281.1	317.1	350.1	358.3	359.1
37.5°	4352.6	3399.0	844.9	255.6	246.6	246.6	258.6	289.4	328.4	353.8	356.8
40°	4635.2	3464.2	592.2	241.4	232.4	232.4	242.9	265.4	302.1	340.3	348.6
42.5°	4896.1	3486.7	412.3	227.9	218.9	221.2	230.1	248.1	275.9	314.1	321.6
45°	5164.5	3483.0	300.6	212.2	205.4	212.2	218.9	232.4	252.6	274.4	275.9
47.5°	5366.9	3451.5	238.4	197.2	192.7	201.7	207.7	216.7	227.9	226.4	226.4
50°	5556.5	3375.0	191.9	176.9	179.9	190.4	193.4	196.4	197.2	182.9	181.4
52.5°	5700.5	3255.8	153.7	155.2	167.2	177.7	174.7	170.2	162.7	145.4	142.4
55°	5748.5	3026.4	120.7	128.2	148.4	161.9	150.7	140.9	126.7	112.5	109.5
57.5°	5661.5	2730.3	98.2	99.7	125.2	136.4	123.7	112.5	96.7	84.7	82.5
60°	5477.1	2401.2	81.0	75.0	96.7	106.5	98.2	87.0	72.7	63.7	63.0
62.5°	5111.2	2050.3	66.7	58.5	73.5	81.7	76.5	68.2	56.2	50.2	49.5
65°	4342.1	1640.3	54.0	47.2	57.0	63.7	59.2	53.2	44.2	39.7	39.0
67.5°	3030.9	1108.8	44.2	39.0	45.0	50.2	46.5	43.5	35.2	34.5	35.2
70°	1461.9	534.5	36.7	31.5	35.2	39.0	37.5	35.2	33.7	39.0	45.0
72.5°	419.1	179.2	29.2	26.2	28.5	30.7	32.2	31.5	36.7	47.2	54.7
73°	322.4	144.7	27.7	24.7	27.0	30.0	31.5	30.7	37.5	48.0	54.7
75°	137.9	69.7	21.0	20.2	22.5	26.2	27.7	27.7	37.5	48.7	52.5
77.5°	62.2	37.5	13.5	15.7	19.5	21.0	23.2	23.2	30.0	37.5	37.5
80°	35.2	20.2	10.5	12.0	14.2	14.2	14.2	12.7	13.5	15.0	16.5
82.5°	22.5	13.5	8.2	9.7	9.0	7.5	6.0	6.0	5.2	6.0	7.5
85°	12.7	7.5	7.5	6.0	3.7	3.0	3.7	3.0	0.7	0.0	0.7
87.5°	7.5	4.5	2.2	0.0	0.0	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)