

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: P322829

Luminaire Tested: **GAN-SA5A-730-U-T4W-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322829  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5A-730-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15374 lumens  
Efficiency: N/A  
Efficacy: 94.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

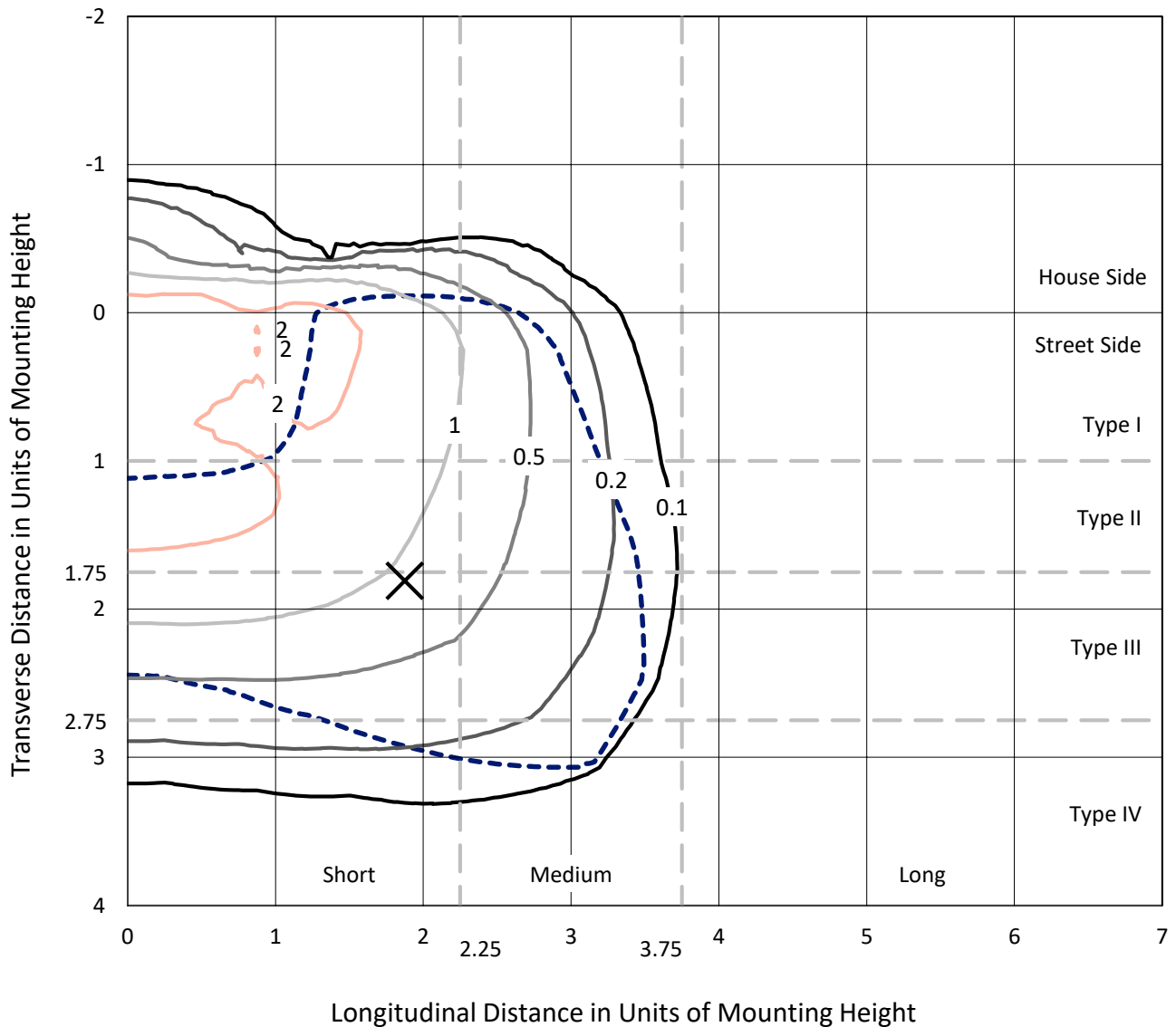
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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 CATALOG NUMBER: GAN-SA5A-730-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

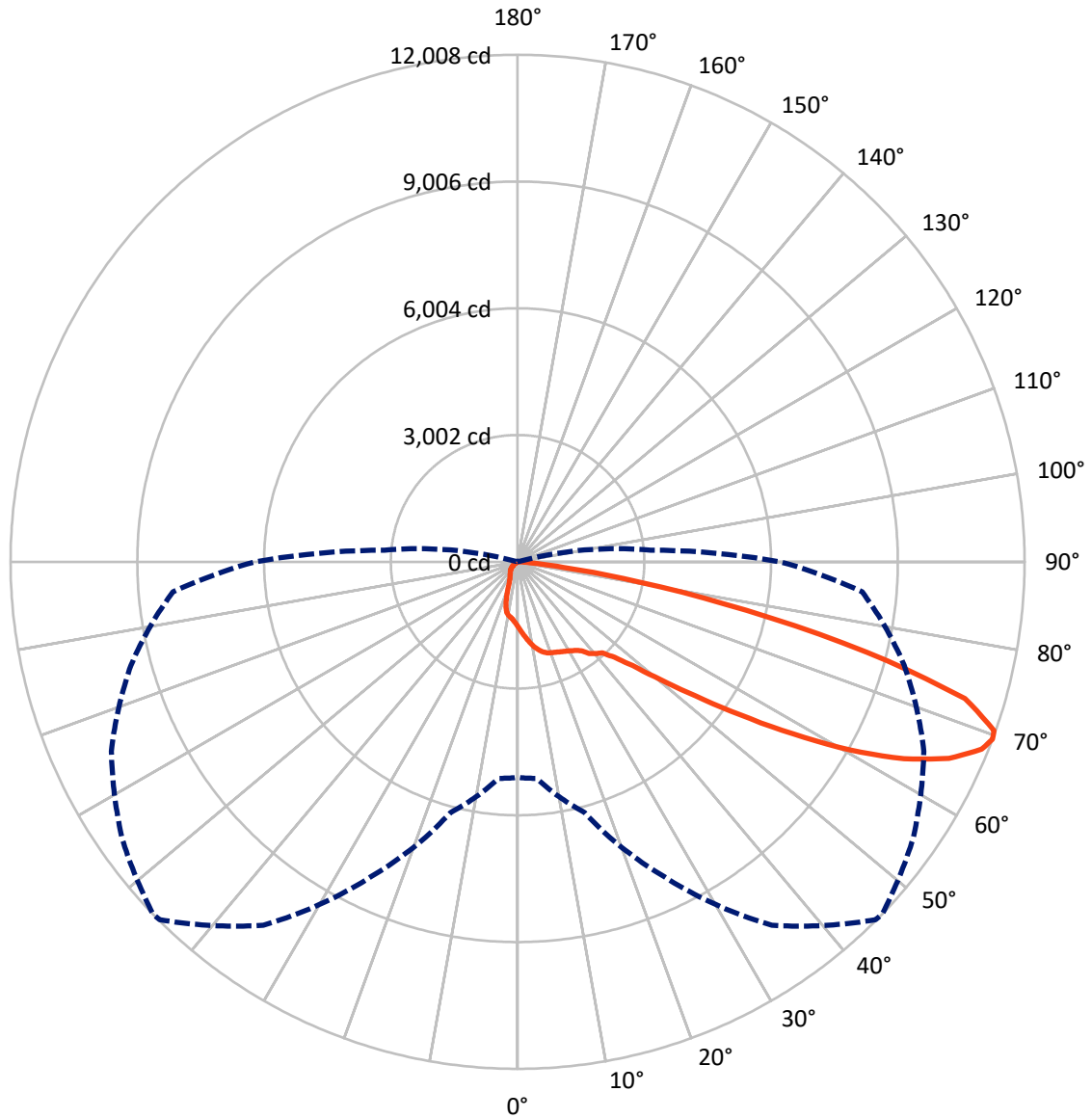
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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 CATALOG NUMBER: GAN-SA5A-730-U-T4W-HSS

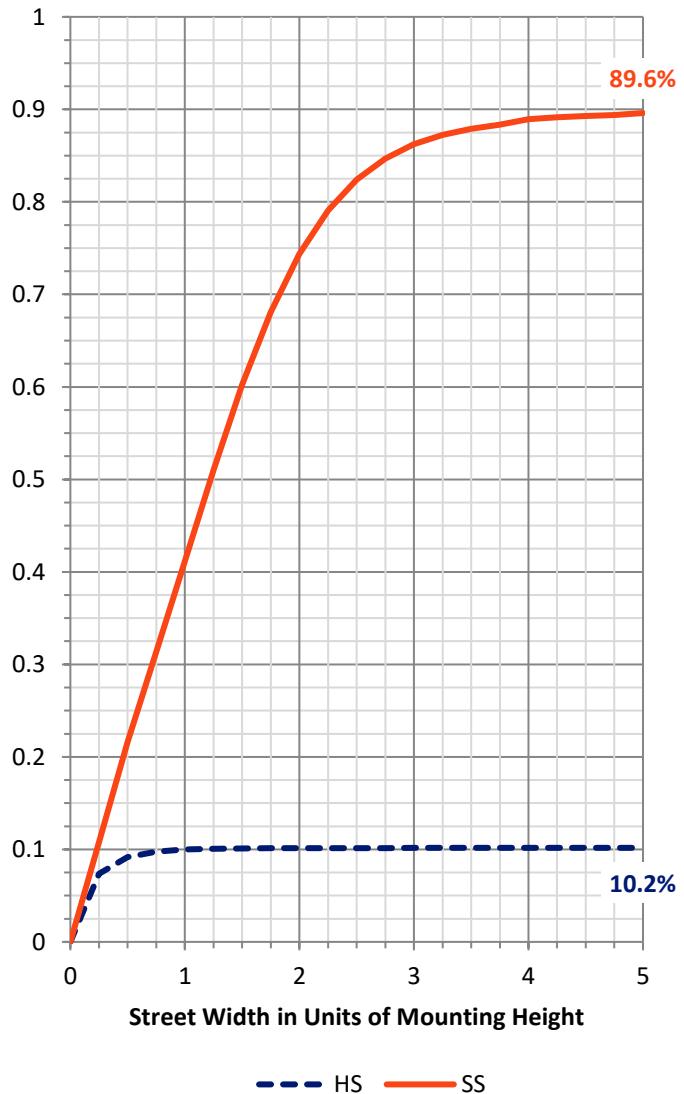
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1577.8	0.0	1577.8
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	13796.2	0.0	13796.2
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	15374.0	0.0	15374.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.3	1.0
10°-20°	465.1	3.0
20°-30°	731.5	4.8
30°-40°	1049.0	6.8
40°-50°	1813.1	11.8
50°-60°	3581.9	23.3
60°-70°	5006.1	32.6
70°-80°	2418.5	15.7
80°-90°	155.4	1.0
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°	15374.0	100.0
0°-180°	15374.0	100.0

**Coefficient of Utilization**



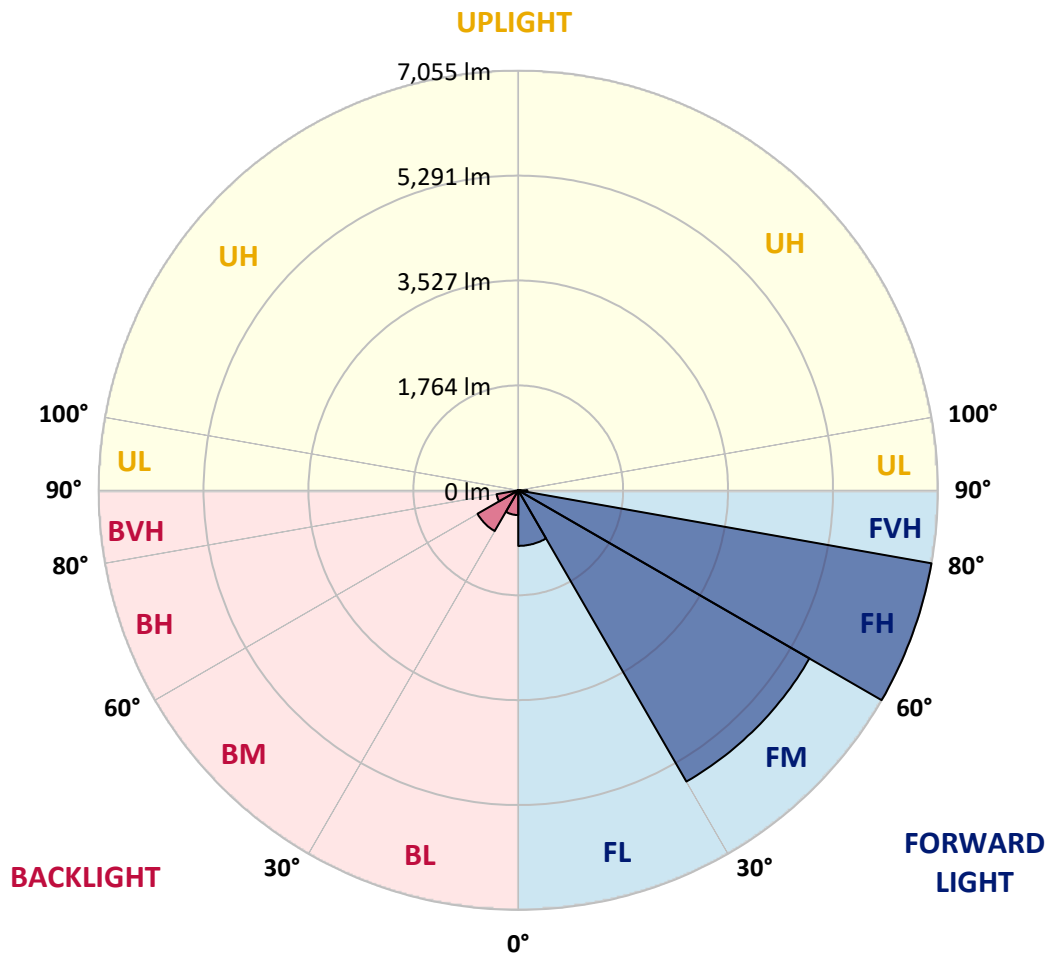
REPORT NUMBER: P322829  
 CATALOG NUMBER: GAN-SA5A-730-U-T4W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	934.2	6.1			
FM (30°-60°)	5653.4	36.8			
FH (60°-80°)	7054.6	45.9			G3/7500
FVH (80°-90°)	154.1	1.0			G2/225
BL (0°-30°)	415.8	2.7	B1/500		
BM (30°-60°)	790.7	5.1	B1/1000		
BH (60°-80°)	370.0	2.4	B1/500		G1/500
BVH (80°-90°)	1.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1540.4	1540.4	1540.4	1540.4	1540.4	1540.4	1540.4	1540.4	1540.4	1540.4	1540.4
2.5°	1711.3	1709.1	1699.0	1694.7	1670.2	1655.8	1650.0	1632.0	1606.0	1580.1	1551.2
5°	1905.9	1905.2	1886.4	1868.4	1822.3	1779.0	1771.1	1729.3	1670.9	1616.1	1561.3
7.5°	2104.8	2095.5	2076.7	2042.1	1975.1	1905.9	1899.4	1840.3	1757.4	1678.1	1599.5
10°	2273.5	2267.7	2243.2	2190.6	2112.0	2033.5	2025.5	1952.7	1859.0	1761.7	1661.5
12.5°	2404.7	2400.4	2367.9	2302.3	2218.7	2137.3	2126.5	2061.6	1961.4	1852.5	1734.3
15°	2484.7	2482.5	2442.9	2373.0	2290.8	2220.2	2210.8	2153.8	2060.9	1947.0	1813.6
17.5°	2503.4	2504.2	2463.1	2392.4	2324.7	2274.2	2267.0	2223.8	2145.9	2032.7	1892.9
20°	2461.6	2470.3	2433.5	2372.3	2330.4	2303.8	2298.0	2272.1	2206.5	2099.8	1956.3
22.5°	2402.5	2406.9	2381.6	2340.5	2323.2	2328.3	2325.4	2311.0	2255.5	2157.4	2019.0
25°	2366.5	2366.5	2351.4	2316.8	2328.3	2359.3	2360.0	2357.1	2313.1	2228.1	2095.5
27.5°	2365.0	2360.7	2343.4	2317.5	2349.2	2396.8	2399.6	2419.1	2391.7	2313.9	2190.6
30°	2422.7	2417.7	2380.9	2347.0	2387.4	2438.6	2445.8	2488.3	2474.6	2406.9	2296.6
32.5°	2557.5	2539.5	2458.0	2402.5	2432.8	2494.1	2503.4	2571.2	2592.8	2521.5	2398.9
35°	2742.0	2685.1	2567.6	2507.8	2510.7	2574.8	2583.5	2682.9	2747.1	2626.7	2478.2
37.5°	2996.5	2968.4	2777.4	2617.3	2630.3	2727.6	2752.9	2861.0	2843.0	2684.4	2568.3
40°	3554.4	3510.5	3307.2	2924.4	2744.9	2851.6	2859.5	2917.2	2918.6	2814.8	2755.7
42.5°	4314.2	4296.2	4082.1	3481.6	2970.5	2934.5	2948.9	3046.2	3155.1	3090.2	3087.3
45°	5155.4	5146.0	4919.0	4221.2	3426.8	3206.3	3224.3	3354.8	3563.1	3577.5	3669.0
47.5°	5832.2	5827.9	5697.5	5046.5	4125.3	3666.9	3672.6	3811.0	4177.2	4358.1	4504.5
50°	6449.3	6470.2	6367.1	5939.7	5076.8	4388.4	4374.7	4467.0	5055.2	5351.5	5533.1
52.5°	7307.1	7336.6	7047.6	6772.9	6075.2	5283.7	5272.9	5369.5	6110.5	6332.5	6364.9
55°	8064.7	8014.2	7785.7	7706.4	7292.7	6389.5	6386.6	6471.6	7131.2	7225.6	7285.4
57.5°	8399.1	8379.7	8490.0	8671.6	8567.8	7696.3	7689.8	7625.0	8044.5	8054.6	8238.4
60°	8610.3	8634.1	8972.2	9532.3	9791.1	9102.7	9060.9	8665.1	8916.7	8894.3	9091.1
62.5°	8451.8	8498.6	9107.0	10040.5	10706.5	10330.2	10271.1	9618.1	9662.0	9584.9	9768.0
65°	7609.8	7682.6	8679.5	9944.6	11160.6	11289.7	11229.8	10459.3	10253.8	10127.0	10025.3
67.5°	6179.0	6222.2	7263.1	9110.6	10955.9	11862.0	11849.8	11196.7	10700.7	10035.4	9246.8
69°	5106.4	5148.9	6150.9	8232.6	10505.4	11984.5	12008.3	11433.1	10615.7	9478.9	8193.0
70°	4325.0	4370.4	5303.9	7480.1	9982.8	11927.6	11970.1	11410.8	10372.0	8834.5	7268.1
72.5°	2268.5	2307.4	3265.4	5153.2	8138.2	10952.3	11081.3	10446.3	8792.0	6416.1	4297.6
75°	712.9	735.2	1275.2	2693.7	5572.0	8515.9	8545.5	8194.4	6243.1	3529.2	1789.8
77.5°	271.8	265.3	424.6	992.6	2817.0	5362.3	5543.2	5120.8	3276.2	1247.8	413.0
80°	146.3	147.0	220.6	410.9	1205.2	2755.7	2908.6	2481.8	1164.1	389.2	95.1
82.5°	63.4	66.3	124.0	217.7	553.6	1016.4	1092.8	909.7	444.8	261.7	35.3
85°	13.7	15.1	59.8	118.2	225.6	285.4	299.1	294.8	283.3	203.3	13.7
87.5°	0.0	0.0	26.7	42.5	56.9	64.9	56.9	74.2	156.4	137.0	7.2
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°	1540.4	1540.4	1540.4	1540.4	1540.4	1540.4	1540.4	1540.4	1540.4	1540.4	1540.4
2.5°	1541.9	1528.9	1506.5	1482.0	1464.7	1446.7	1432.3	1425.8	1418.6	1413.6	1420.0
5°	1539.0	1513.7	1470.5	1428.7	1398.4	1373.9	1353.7	1345.8	1337.9	1332.1	1331.4
7.5°	1564.2	1528.9	1462.6	1401.3	1354.4	1321.3	1293.9	1282.4	1273.0	1268.7	1265.1
10°	1612.5	1567.1	1478.4	1398.4	1337.9	1281.6	1222.5	1177.1	1147.6	1133.9	1128.8
12.5°	1675.2	1618.3	1508.7	1413.6	1325.6	1217.5	1092.1	983.9	914.0	890.9	877.3
15°	1748.7	1678.1	1548.3	1433.0	1280.9	1083.4	870.8	729.5	664.6	651.6	637.2
17.5°	1819.4	1741.5	1595.9	1436.6	1182.9	865.7	637.9	542.1	516.8	525.5	527.6
20°	1881.4	1804.2	1642.8	1404.9	1004.8	649.5	493.8	470.0	479.4	495.9	498.8
22.5°	1944.1	1864.8	1686.0	1321.3	777.1	493.0	444.8	450.5	459.9	476.5	479.4
25°	2020.5	1938.3	1726.4	1167.7	583.2	419.5	422.4	431.1	440.4	455.6	457.0
27.5°	2108.4	2031.3	1753.1	968.1	432.5	385.6	395.0	408.0	417.4	431.8	434.7
30°	2225.2	2153.8	1761.7	761.2	362.6	355.4	359.7	375.6	389.2	402.2	404.4
32.5°	2334.8	2274.9	1732.9	574.5	335.9	327.3	327.3	336.6	352.5	364.7	367.6
35°	2435.7	2396.8	1640.6	420.2	315.7	301.3	294.1	294.1	304.2	314.3	317.2
37.5°	2569.0	2567.6	1491.4	335.2	296.3	279.7	264.5	253.0	249.4	251.6	253.0
40°	2797.5	2799.7	1296.8	300.6	279.7	257.3	234.3	213.4	193.9	187.4	186.7
42.5°	3154.4	3121.9	1092.8	284.0	265.3	234.3	199.7	171.6	141.3	131.9	131.2
45°	3720.9	3528.5	876.5	268.9	250.1	208.3	165.1	126.9	102.4	95.1	95.1
47.5°	4546.3	4062.6	679.0	252.3	229.9	178.8	124.7	91.5	75.0	71.4	72.1
50°	5399.8	4585.9	520.4	231.4	205.4	147.8	92.3	66.3	56.9	56.9	57.7
52.5°	6156.6	4969.4	405.8	209.0	175.2	116.1	69.9	51.9	47.6	46.9	47.6
55°	6865.2	5216.7	310.7	183.1	139.1	86.5	53.3	42.5	39.6	38.2	37.5
57.5°	7548.5	5339.2	232.8	147.8	100.9	62.7	42.5	36.0	33.2	31.0	30.3
60°	8003.4	5239.7	160.0	108.8	69.9	45.4	35.3	31.0	27.4	25.2	24.5
62.5°	8260.0	4968.0	103.1	78.6	49.7	33.9	28.1	25.9	20.9	18.7	18.7
65°	8156.2	4519.6	72.1	56.2	36.0	25.2	20.9	20.9	15.1	12.3	11.5
67.5°	7227.8	3818.2	54.8	41.8	25.9	18.7	15.9	18.0	9.4	5.8	5.8
69°	6218.6	3164.5	46.9	34.6	21.6	15.1	13.7	16.6	6.5	4.3	3.6
70°	5404.8	2729.8	42.5	30.3	18.0	13.0	12.3	15.9	6.5	3.6	2.9
72.5°	3233.7	1522.4	32.4	21.6	11.5	10.1	10.1	18.0	6.5	3.6	2.9
75°	1306.9	536.3	23.8	15.1	8.6	8.6	12.3	23.1	5.8	2.9	2.2
77.5°	296.3	117.5	13.7	9.4	5.8	8.6	14.4	18.0	3.6	1.4	0.0
80°	72.1	28.8	8.6	5.8	3.6	6.5	10.8	10.1	0.7	0.0	0.0
82.5°	23.8	10.1	3.6	2.9	0.7	2.2	5.0	2.9	0.0	0.0	0.0
85°	10.1	5.8	1.4	0.7	0.0	0.0	0.7	0.0	0.0	0.0	0.0
87.5°	6.5	2.2	0.0	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)