

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: P322264

Luminaire Tested: **GAN-SA0D-740-U-T3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322264  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA0D-740-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 55967 lumens  
Efficiency: N/A  
Efficacy: 87.4 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

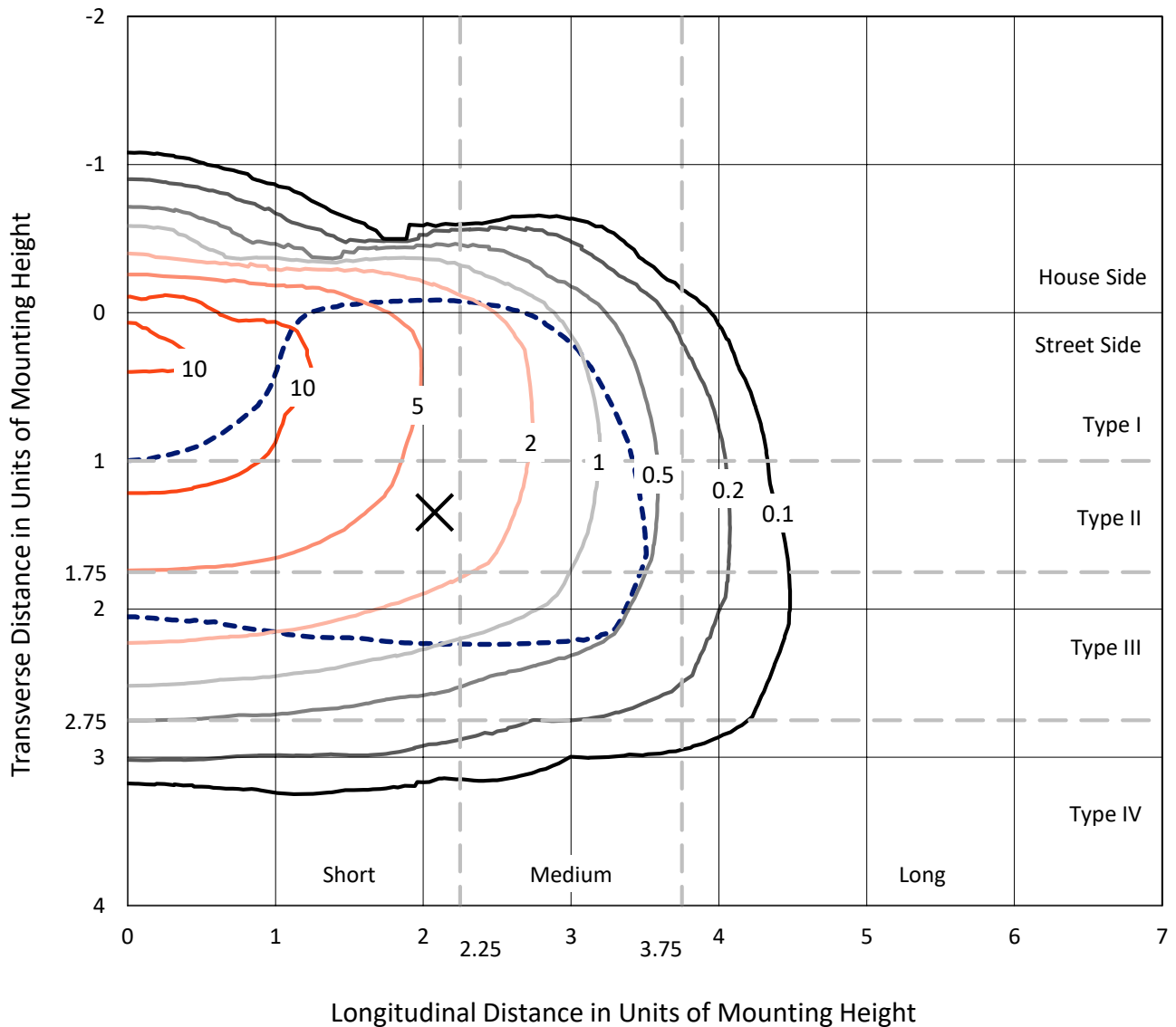
Input Watts (W): 640  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P322264  
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### Iso-Footcandle Lines of Horizontal Illumination

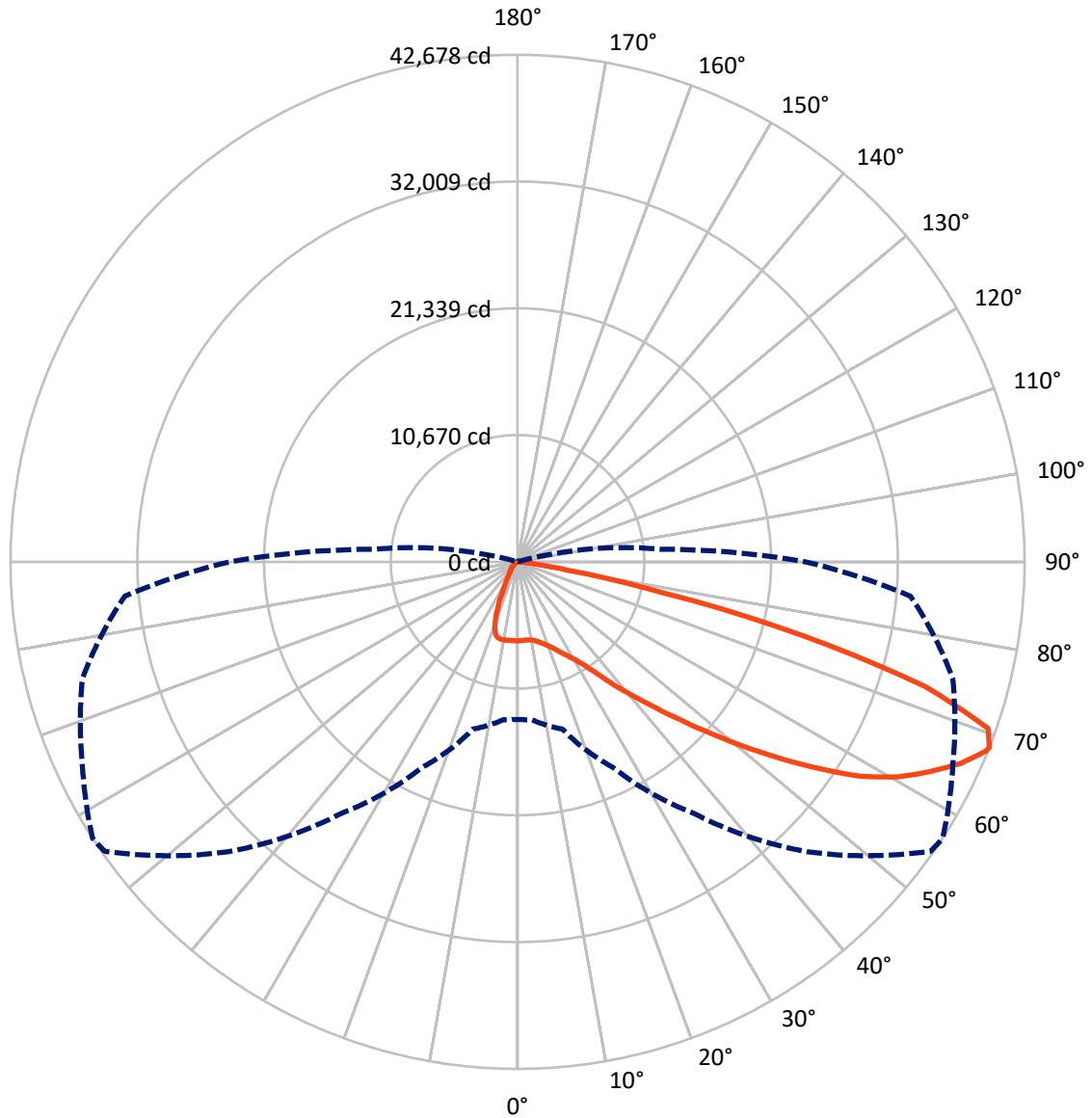
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc  
 Type III - Short - N/A

REPORT NUMBER: P322264  
CATALOG NUMBER: GAN-SA0D-740-U-T3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

REPORT NUMBER: P322264

CATALOG NUMBER: GAN-SA0D-740-U-T3-HSS

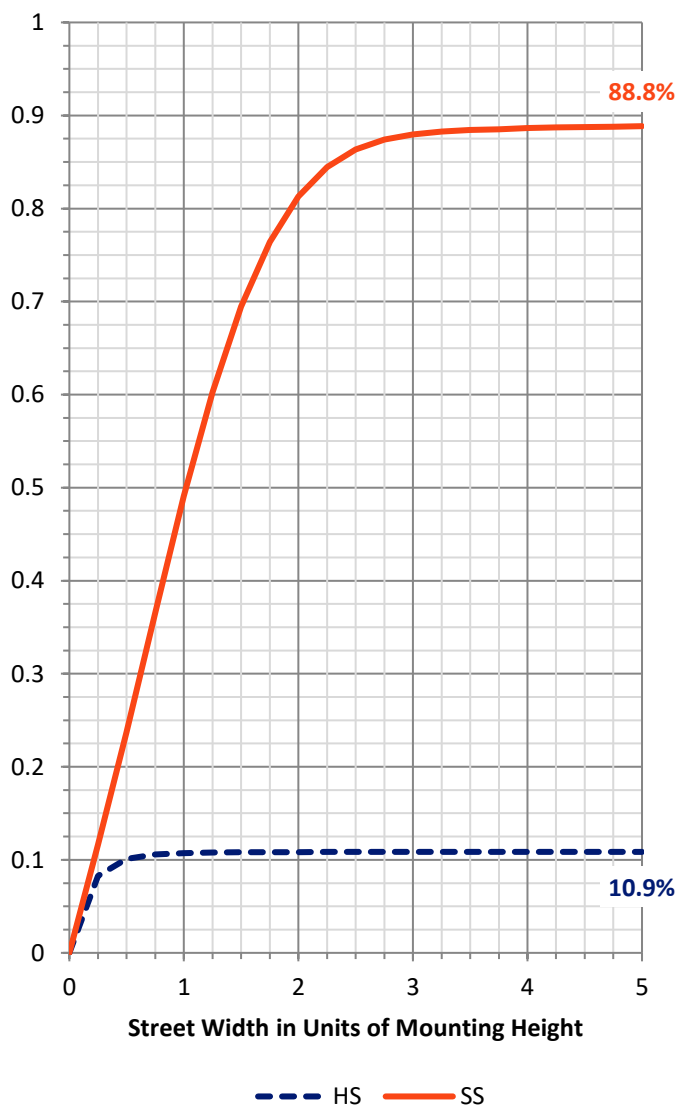
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6137.1	0.0	6137.1
	% Fixture	11.0	0.0	11.0
<b>Street Side</b>	Lumens	49829.9	0.0	49829.9
	% Fixture	89.0	0.0	89.0
<b>Total</b>	Lumens	55967.0	0.0	55967.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	622.4	1.1
10°-20°	1724.6	3.1
20°-30°	2975.2	5.3
30°-40°	5135.0	9.2
40°-50°	8783.6	15.7
50°-60°	14052.9	25.1
60°-70°	16236.6	29.0
70°-80°	6204.2	11.1
80°-90°	232.6	0.4
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°	55967.0	100.0
0°-180°	55967.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P322264

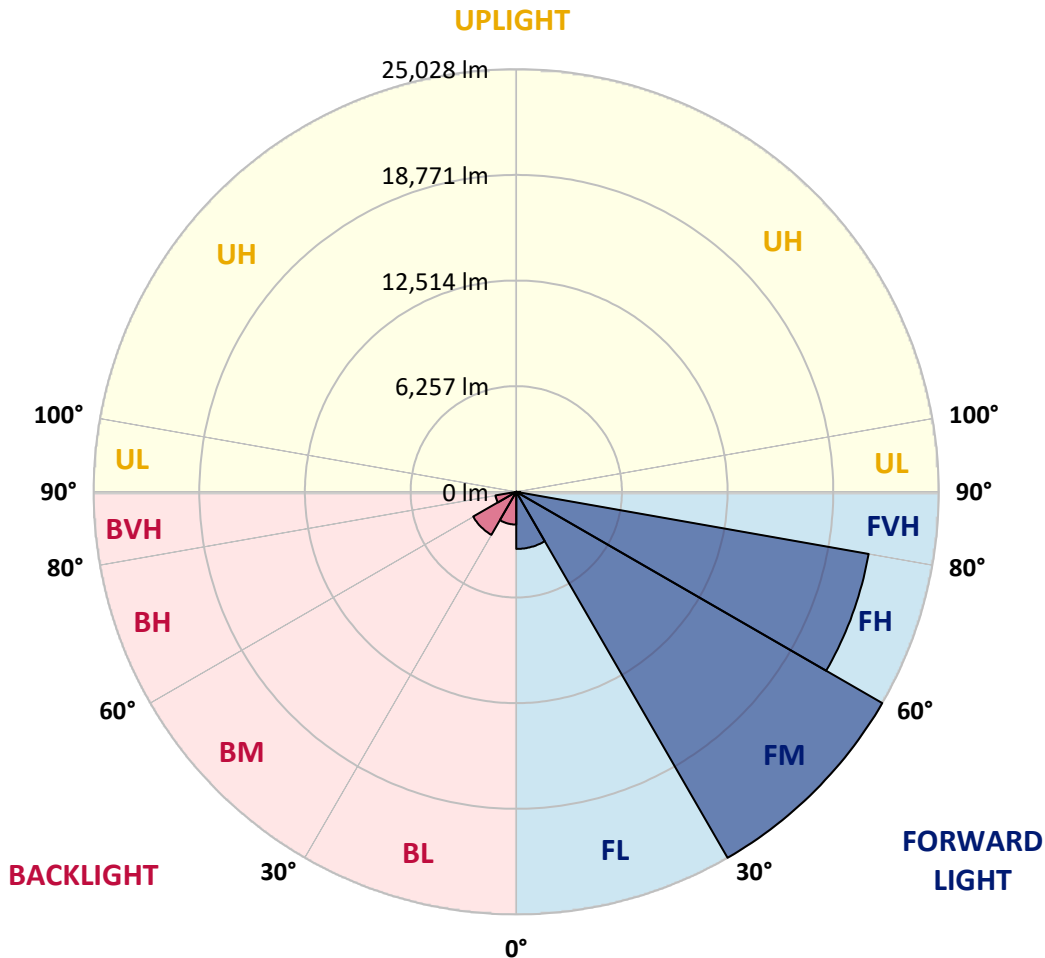
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3382.7	6.0			
FM (30°-60°)	25028.0	44.7			
FH (60°-80°)	21190.9	37.9			G5
FVH (80°-90°)	228.3	0.4			G3/500
BL (0°-30°)	1939.5	3.5	B3/2500		
BM (30°-60°)	2943.5	5.3	B3/5000		
BH (60°-80°)	1249.9	2.2	B3/2500		G3/2500
BVH (80°-90°)	4.2	0.0			G0/10
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°	57°	65°	75°	85°
0°	6650.4	6650.4	6650.4	6650.4	6650.4	6650.4	6650.4	6650.4	6650.4	6650.4	6650.4
2.5°	6494.2	6523.3	6544.5	6557.7	6573.6	6608.0	6618.6	6634.5	6642.4	6642.4	6660.9
5°	6237.5	6269.3	6314.3	6351.3	6425.4	6520.7	6589.5	6616.0	6663.6	6705.9	6729.7
7.5°	5999.3	6036.4	6089.3	6176.7	6303.7	6457.2	6600.1	6637.1	6729.7	6819.7	6864.7
10°	5845.9	5875.0	5943.8	6068.2	6234.9	6449.2	6650.4	6695.3	6854.1	7005.0	7089.7
12.5°	5792.9	5819.4	5890.8	6031.1	6237.5	6488.9	6766.8	6833.0	7065.8	7285.5	7404.6
15°	5869.7	5875.0	5951.7	6084.0	6287.8	6586.8	6960.0	7039.4	7333.1	7618.9	7767.1
17.5°	6166.1	6142.3	6181.9	6240.2	6401.6	6716.5	7163.8	7282.8	7674.5	8010.6	8150.9
20°	6907.1	6907.1	6817.1	6658.3	6660.9	6917.6	7439.0	7573.9	8052.9	8442.0	8569.0
22.5°	8174.7	8150.9	7970.9	7581.9	7224.6	7264.3	7775.1	7949.7	8508.1	8923.6	8965.9
25°	9699.0	9669.9	9392.0	8844.2	8225.0	7825.3	8230.2	8431.4	9050.6	9418.5	9331.1
27.5°	11313.3	11289.5	11014.2	10334.1	9452.9	8719.8	8772.8	8963.3	9603.7	9966.3	9688.4
30°	12877.3	12885.2	12612.7	11914.0	10916.3	9860.4	9460.8	9572.0	10140.9	10508.8	10111.8
32.5°	14364.6	14375.1	14139.6	13358.9	12427.4	11186.3	10413.5	10384.4	10765.5	11128.0	10672.9
35°	15690.4	15716.9	15555.4	14949.4	13962.3	12662.9	11649.4	11580.6	11652.0	12062.2	11532.9
37.5°	16968.6	16984.5	16862.7	16352.0	15526.3	14285.2	13210.7	13112.8	12959.3	13274.2	12668.2
40°	18368.5	18328.8	18188.6	17725.5	17016.2	16076.8	14888.5	14719.2	14451.9	14732.4	14160.8
42.5°	19670.5	19625.6	19649.4	19125.4	18527.3	17918.6	16844.2	16553.1	16397.0	16719.8	15992.1
45°	21298.1	21274.3	21353.6	20898.5	20414.2	19972.2	19085.7	18768.1	18699.3	19077.8	18207.1
47.5°	22904.4	22962.6	23208.8	23015.6	22819.7	22430.7	21459.5	21316.6	21358.9	21816.8	20543.9
50°	24243.5	24312.3	24987.1	25209.4	25492.6	25265.0	24291.1	24203.8	24370.5	24783.4	23057.9
52.5°	25212.1	25352.3	26191.2	27215.4	28247.5	28401.0	27429.7	27350.3	27575.3	27638.8	25000.4
55°	25884.3	26008.6	26958.7	28832.3	30933.5	31595.1	30991.8	30684.8	30642.4	30015.3	27043.4
57.5°	26003.3	25990.1	27355.6	29877.6	33040.1	34747.0	34365.9	34064.2	33196.2	32211.7	29385.4
60°	25331.2	25407.9	26993.1	30240.2	34363.3	37131.4	37160.5	36768.8	35416.5	34347.4	31656.0
62.5°	23261.7	23574.0	25175.0	29290.1	34347.4	38092.0	39208.8	38909.7	37292.8	36096.6	33958.4
65°	19906.1	20017.2	21544.2	26035.1	32026.5	37689.8	41053.3	40942.2	38983.8	37795.6	35141.3
67.5°	14536.6	14295.7	15899.5	20501.5	27114.8	35345.1	42376.5	42516.8	40288.5	38144.9	33881.6
68°	13266.3	13337.8	14586.9	19133.3	25828.7	34516.7	42463.8	42678.2	40418.2	37917.3	33193.6
70°	7907.4	8045.0	9159.1	13173.7	19649.4	29830.0	41521.7	42011.3	39645.4	35570.0	28710.6
72.5°	2019.2	2183.3	3236.5	5896.1	11223.3	21017.6	35051.3	35879.6	34421.5	28856.1	19382.1
75°	831.0	873.3	1156.5	1942.4	4181.3	9468.8	23102.9	24876.0	23862.4	17275.6	8759.5
77.5°	574.3	603.4	743.6	1077.1	1810.1	3210.1	11326.5	12607.4	11358.3	5896.1	1910.7
80°	412.8	436.7	531.9	717.2	1040.0	1145.9	3691.7	4268.6	3390.0	1294.1	473.7
82.5°	246.1	264.6	397.0	510.8	632.5	547.8	918.3	1042.7	981.8	643.1	211.7
85°	121.7	142.9	267.3	365.2	341.4	230.2	280.5	312.3	386.4	391.7	113.8
87.5°	7.9	15.9	156.1	219.6	95.3	52.9	82.0	100.6	137.6	193.2	47.6
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°	6650.4	6650.4	6650.4	6650.4	6650.4	6650.4	6650.4	6650.4	6650.4	6650.4	6650.4
2.5°	6668.9	6671.5	6653.0	6645.1	6650.4	6618.6	6605.4	6610.7	6610.7	6618.6	6605.4
5°	6735.0	6735.0	6703.3	6660.9	6637.1	6576.3	6536.6	6526.0	6518.0	6512.7	6502.2
7.5°	6877.9	6862.1	6806.5	6713.9	6634.5	6502.2	6401.6	6348.7	6322.2	6311.6	6303.7
10°	7108.2	7079.1	6986.4	6814.4	6631.8	6396.3	6176.7	6020.5	5890.8	5837.9	5806.2
12.5°	7417.8	7375.5	7219.3	6933.5	6613.3	6179.3	5703.0	5245.1	4819.1	4644.4	4557.1
15°	7775.1	7714.2	7468.1	7034.1	6504.8	5689.7	4655.0	3853.1	3263.0	3040.7	2945.4
17.5°	8137.6	8058.2	7685.1	7097.6	6179.3	4676.2	3265.6	2466.4	2072.1	1966.3	1929.2
20°	8502.8	8386.4	7873.0	7050.0	5443.6	3371.5	2154.2	1802.2	1688.4	1656.6	1646.0
22.5°	8849.5	8669.5	8042.4	6864.7	4311.0	2262.7	1704.3	1593.1	1556.1	1537.5	1532.3
25°	9151.2	8899.8	8190.5	6293.1	3051.3	1709.6	1534.9	1497.9	1450.2	1415.8	1418.5
27.5°	9434.3	9130.0	8280.5	5351.0	2035.1	1460.8	1421.1	1370.8	1283.5	1233.2	1233.2
30°	9775.7	9437.0	8346.7	4117.8	1497.9	1291.4	1259.7	1182.9	1063.8	997.7	997.7
32.5°	10289.1	9902.8	8304.3	2889.8	1241.2	1135.3	1061.2	955.3	825.7	762.2	759.5
35°	11075.1	10622.6	8002.7	1894.8	1095.6	987.1	868.0	738.3	624.5	571.6	569.0
37.5°	12133.7	11585.9	7325.2	1354.9	981.8	849.5	706.6	563.7	479.0	444.6	441.9
40°	13507.1	12705.3	6356.6	1098.2	876.0	717.2	545.2	436.7	378.4	352.0	354.6
42.5°	15155.8	13904.1	5194.8	947.4	772.7	590.1	426.1	344.0	307.0	288.5	283.2
45°	16987.1	15087.0	3977.5	844.2	669.5	476.3	333.4	272.6	243.5	232.9	232.9
47.5°	19001.0	16238.2	2911.0	754.2	558.4	367.8	267.3	222.3	198.5	190.5	187.9
50°	20829.7	17037.4	2098.6	658.9	457.8	291.1	217.0	185.2	169.4	158.8	158.8
52.5°	22354.0	17288.8	1545.5	555.7	370.5	232.9	180.0	158.8	142.9	135.0	135.0
55°	23695.7	17185.6	1148.5	457.8	299.0	190.5	153.5	135.0	121.7	113.8	113.8
57.5°	24981.8	16852.2	857.4	373.1	240.8	153.5	129.7	113.8	100.6	95.3	95.3
60°	26032.4	16296.4	637.8	301.7	193.2	124.4	108.5	92.6	82.0	74.1	74.1
62.5°	26884.6	15682.5	468.4	248.8	153.5	97.9	84.7	76.7	60.9	52.9	52.9
65°	26889.9	14663.6	352.0	206.4	119.1	76.7	63.5	60.9	39.7	31.8	29.1
67.5°	24944.8	12641.8	269.9	177.3	92.6	58.2	47.6	50.3	21.2	13.2	10.6
68°	24238.2	12128.4	254.1	174.7	87.3	55.6	45.0	50.3	18.5	10.6	7.9
70°	20435.4	9648.7	203.8	169.4	76.7	42.3	37.0	50.3	15.9	7.9	5.3
72.5°	13070.5	5599.7	150.8	135.0	58.2	31.8	23.8	45.0	15.9	5.3	2.6
75°	5562.7	1736.0	103.2	95.3	34.4	23.8	15.9	29.1	10.6	2.6	0.0
77.5°	1172.3	391.7	60.9	58.2	23.8	15.9	10.6	7.9	2.6	0.0	0.0
80°	301.7	113.8	31.8	29.1	13.2	7.9	5.3	0.0	0.0	0.0	0.0
82.5°	95.3	45.0	18.5	13.2	5.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	47.6	26.5	10.6	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	26.5	7.9	2.6	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)