

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: P322272

Luminaire Tested: **GAN-SA8A-750-U-T3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322272  
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-SA8A-750-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5000K, 615mA 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: 27217 lumens  
Efficiency: N/A  
Efficacy: 105.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

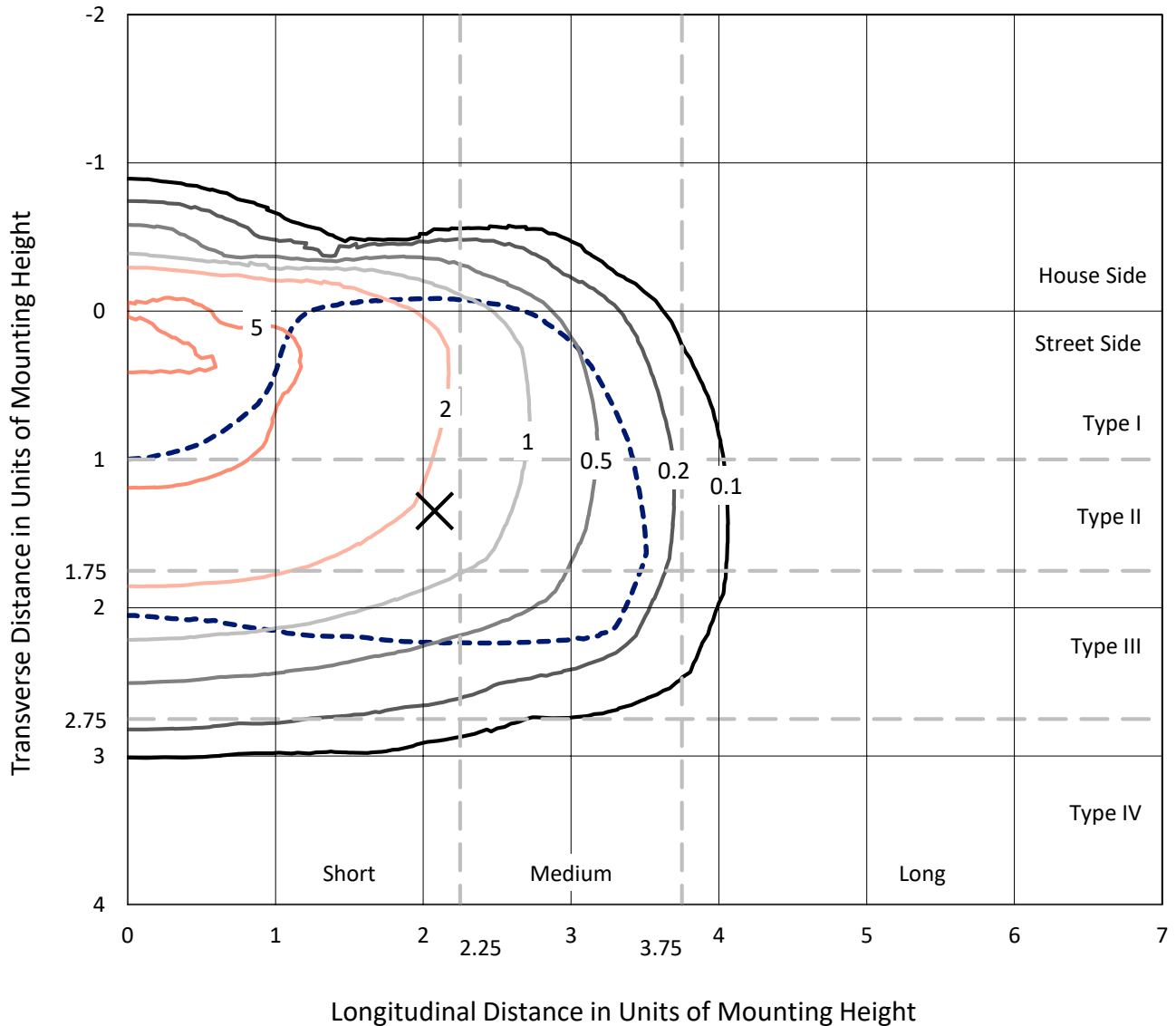
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

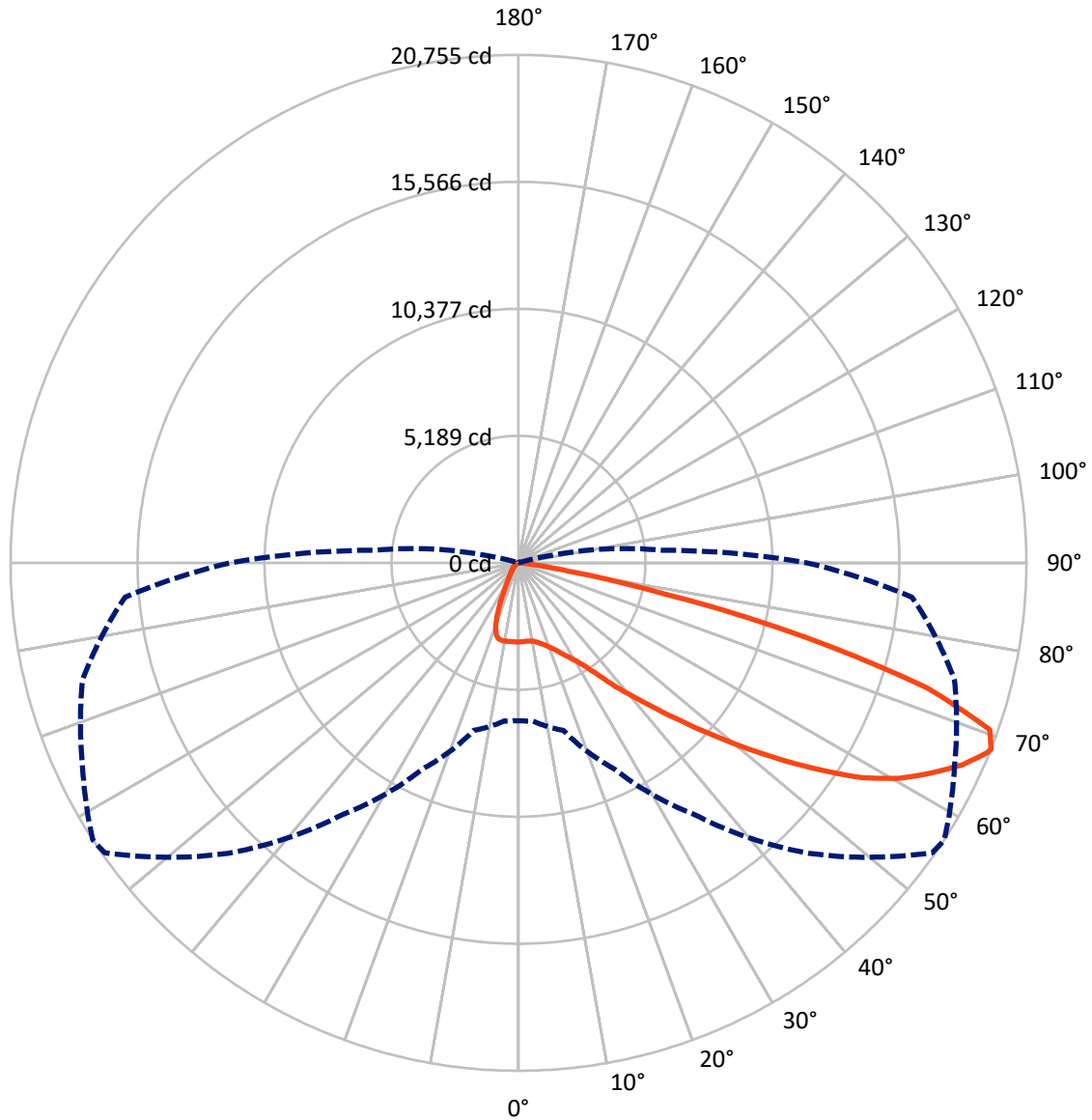
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GAN-SA8A-750-U-T3-HSS

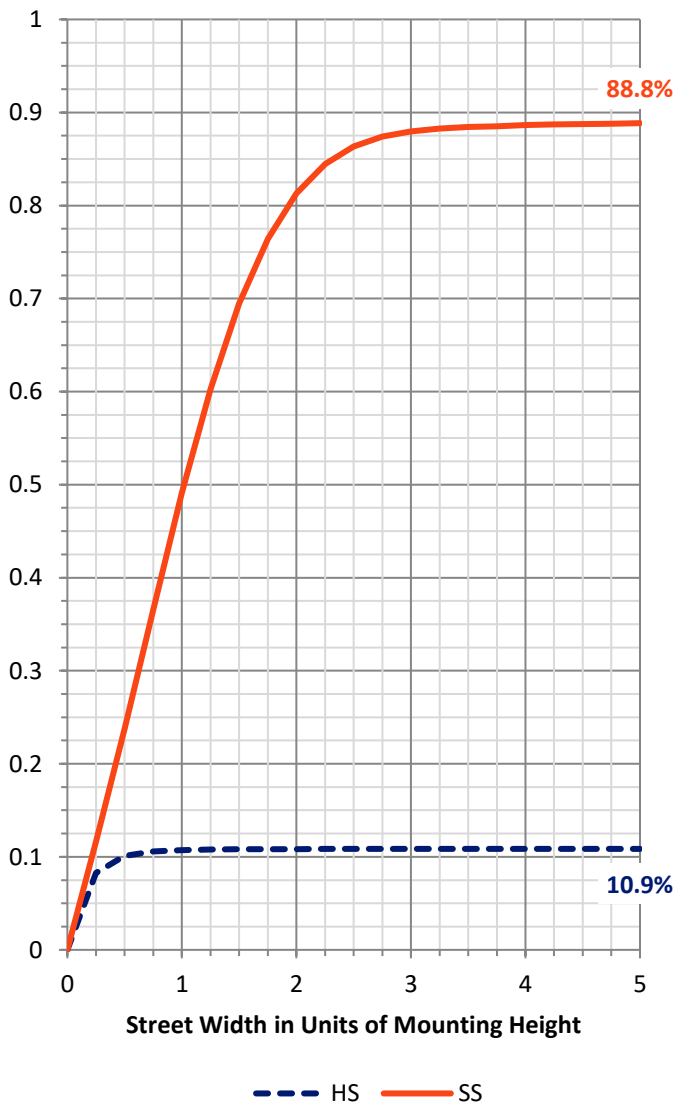
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2984.5	0.0	2984.5
	% Fixture	11.0	0.0	11.0
<b>Street Side</b>	Lumens	24232.5	0.0	24232.5
	% Fixture	89.0	0.0	89.0
<b>Total</b>	Lumens	27217.0	0.0	27217.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	302.7	1.1
10°-20°	838.7	3.1
20°-30°	1446.8	5.3
30°-40°	2497.2	9.2
40°-50°	4271.5	15.7
50°-60°	6834.0	25.1
60°-70°	7895.9	29.0
70°-80°	3017.1	11.1
80°-90°	113.1	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°	27217.0	100.0
0°-180°	27217.0	100.0

**Coefficient of Utilization**



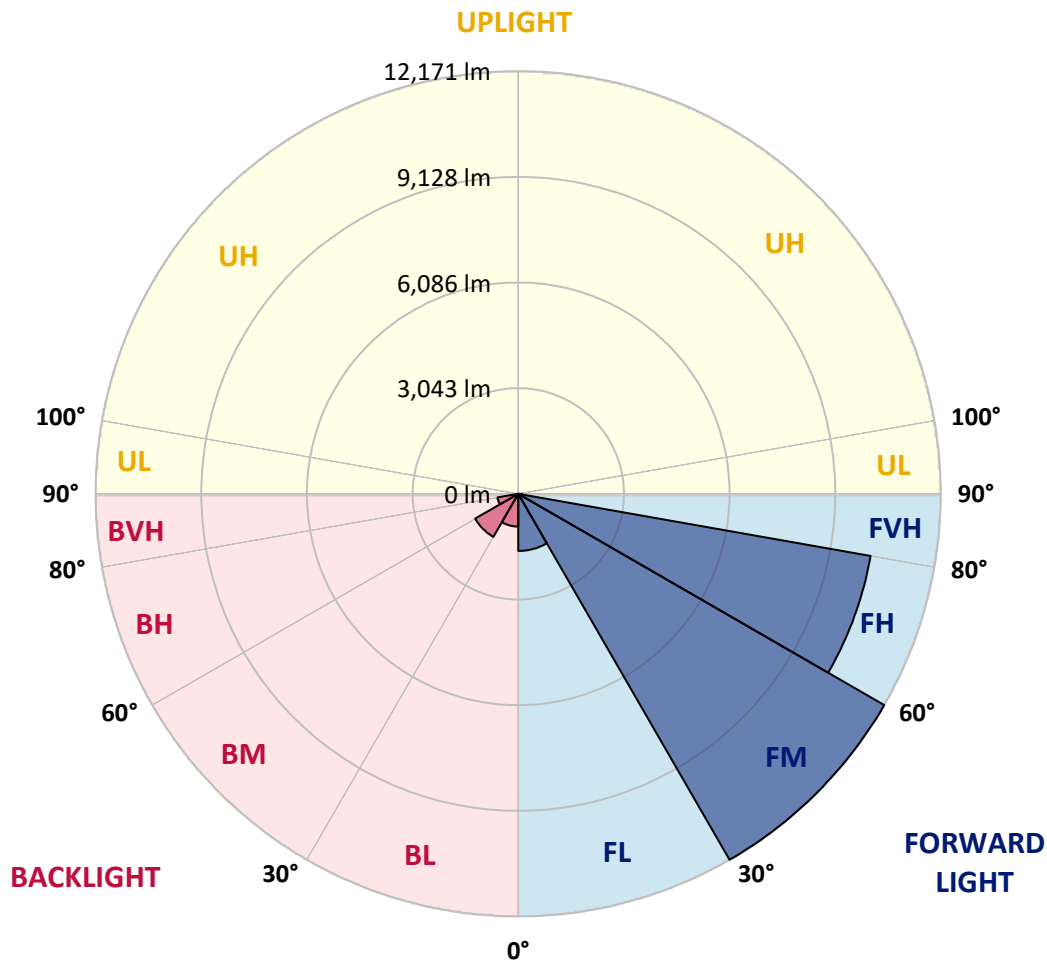
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 CATALOG NUMBER: GAN-SA8A-750-U-T3-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1645.0	6.0			
FM (30°-60°)	12171.2	44.7			
FH (60°-80°)	10305.2	37.9			G4/12000
FVH (80°-90°)	111.0	0.4			G2/225
BL (0°-30°)	943.2	3.5	B2/1000		
BM (30°-60°)	1431.4	5.3	B2/2500		
BH (60°-80°)	607.8	2.2	B2/1000		G2/1000
BVH (80°-90°)	2.1	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-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3234.1	3234.1	3234.1	3234.1	3234.1	3234.1	3234.1	3234.1	3234.1	3234.1	3234.1
2.5°	3158.2	3172.3	3182.6	3189.1	3196.8	3213.5	3218.7	3226.4	3230.2	3230.2	3239.2
5°	3033.3	3048.8	3070.7	3088.7	3124.7	3171.0	3204.5	3217.4	3240.5	3261.1	3272.7
7.5°	2917.5	2935.5	2961.3	3003.7	3065.5	3140.2	3209.6	3227.7	3272.7	3316.5	3338.3
10°	2842.9	2857.0	2890.5	2951.0	3032.0	3136.3	3234.1	3256.0	3333.2	3406.5	3447.7
12.5°	2817.1	2830.0	2864.7	2933.0	3033.3	3155.6	3290.7	3322.9	3436.1	3543.0	3600.9
15°	2854.4	2857.0	2894.3	2958.7	3057.8	3203.2	3384.7	3423.3	3566.1	3705.1	3777.2
17.5°	2998.6	2987.0	3006.3	3034.6	3113.1	3266.3	3483.8	3541.7	3732.1	3895.6	3963.8
20°	3358.9	3358.9	3315.2	3238.0	3239.2	3364.1	3617.6	3683.2	3916.2	4105.4	4167.1
22.5°	3975.4	3963.8	3876.3	3687.1	3513.4	3532.7	3781.0	3866.0	4137.5	4339.6	4360.2
25°	4716.7	4702.5	4567.4	4301.0	3999.8	3805.5	4002.4	4100.2	4401.4	4580.2	4537.8
27.5°	5501.7	5490.1	5356.3	5025.5	4597.0	4240.5	4266.2	4358.9	4670.3	4846.6	4711.5
30°	6262.3	6266.1	6133.6	5793.8	5308.7	4795.2	4600.8	4654.9	4931.6	5110.5	4917.4
32.5°	6985.5	6990.7	6876.2	6496.5	6043.5	5439.9	5064.1	5050.0	5235.3	5411.6	5190.3
35°	7630.3	7643.2	7564.7	7270.0	6789.9	6158.0	5665.1	5631.7	5666.4	5865.9	5608.5
37.5°	8251.9	8259.6	8200.4	7952.0	7550.5	6946.9	6424.4	6376.8	6302.2	6455.3	6160.6
40°	8932.7	8913.4	8845.2	8620.0	8275.1	7818.2	7240.4	7158.0	7028.0	7164.4	6886.5
42.5°	9565.9	9544.0	9555.6	9300.8	9009.9	8713.9	8191.4	8049.9	7973.9	8130.9	7777.0
45°	10357.3	10345.8	10384.4	10163.0	9927.5	9712.6	9281.5	9127.0	9093.6	9277.6	8854.2
47.5°	11138.5	11166.8	11286.5	11192.6	11097.3	10908.2	10435.9	10366.4	10386.9	10609.6	9990.6
50°	11789.7	11823.2	12151.4	12259.5	12397.2	12286.5	11812.9	11770.4	11851.5	12052.3	11213.2
52.5°	12260.7	12328.9	12736.9	13235.0	13736.9	13811.5	13339.2	13300.6	13410.0	13440.9	12157.8
55°	12587.6	12648.1	13110.1	14021.3	15043.1	15364.9	15071.4	14922.1	14901.6	14596.5	13151.3
57.5°	12645.5	12639.1	13303.2	14529.6	16067.5	16897.6	16712.3	16565.6	16143.5	15664.7	14290.3
60°	12318.7	12356.0	13126.9	14705.9	16711.0	18057.1	18071.3	17880.8	17223.2	16703.3	15394.5
62.5°	11312.3	11464.1	12242.7	14243.9	16703.3	18524.3	19067.4	18922.0	18135.7	17554.0	16514.1
65°	9680.4	9734.5	10477.0	12661.0	15574.6	18328.7	19964.4	19910.4	18958.0	18380.2	17089.4
67.5°	7069.2	6952.1	7732.0	9970.0	13186.1	17188.5	20607.9	20676.1	19592.5	18550.1	16476.8
68°	6451.5	6486.2	7093.7	9304.6	12560.6	16785.6	20650.3	20754.6	19655.5	18439.4	16142.2
70°	3845.4	3912.3	4454.1	6406.4	9555.6	14506.5	20192.2	20430.3	19279.7	17297.9	13962.1
72.5°	981.9	1061.7	1573.9	2867.3	5457.9	10220.9	17045.6	17448.4	16739.3	14032.9	9425.6
75°	404.1	424.7	562.4	944.6	2033.4	4604.7	11235.0	12097.3	11604.4	8401.2	4259.8
77.5°	279.3	293.4	361.6	523.8	880.3	1561.1	5508.1	6131.0	5523.6	2867.3	929.2
80°	200.8	212.3	258.7	348.8	505.8	557.2	1795.3	2075.8	1648.6	629.3	230.4
82.5°	119.7	128.7	193.0	248.4	307.6	266.4	446.6	507.1	477.5	312.7	103.0
85°	59.2	69.5	130.0	177.6	166.0	112.0	136.4	151.9	187.9	190.5	55.3
87.5°	3.9	7.7	75.9	106.8	46.3	25.7	39.9	48.9	66.9	93.9	23.2
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°	3234.1	3234.1	3234.1	3234.1	3234.1	3234.1	3234.1	3234.1	3234.1	3234.1	3234.1
2.5°	3243.1	3244.4	3235.4	3231.5	3234.1	3218.7	3212.2	3214.8	3214.8	3218.7	3212.2
5°	3275.3	3275.3	3259.8	3239.2	3227.7	3198.1	3178.8	3173.6	3169.7	3167.2	3162.0
7.5°	3344.8	3337.1	3310.0	3265.0	3226.4	3162.0	3113.1	3087.4	3074.5	3069.4	3065.5
10°	3456.7	3442.6	3397.5	3313.9	3225.1	3110.6	3003.7	2927.8	2864.7	2839.0	2823.6
12.5°	3607.3	3586.7	3510.8	3371.8	3216.1	3005.0	2773.4	2550.7	2343.5	2258.6	2216.1
15°	3781.0	3751.4	3631.8	3420.7	3163.3	2766.9	2263.7	1873.8	1586.8	1478.7	1432.4
17.5°	3957.4	3918.8	3737.3	3451.6	3005.0	2274.0	1588.1	1199.4	1007.7	956.2	938.2
20°	4135.0	4078.3	3828.7	3428.4	2647.2	1639.6	1047.6	876.4	821.1	805.6	800.5
22.5°	4303.5	4216.0	3911.0	3338.3	2096.4	1100.3	828.8	774.7	756.7	747.7	745.1
25°	4450.3	4328.0	3983.1	3060.4	1483.8	831.4	746.4	728.4	705.2	688.5	689.8
27.5°	4588.0	4440.0	4026.9	2602.2	989.7	710.4	691.1	666.6	624.2	599.7	599.7
30°	4754.0	4589.3	4059.0	2002.5	728.4	628.0	612.6	575.3	517.4	485.2	485.2
32.5°	5003.6	4815.8	4038.4	1405.3	603.6	552.1	516.1	464.6	401.5	370.6	369.4
35°	5385.9	5165.8	3891.7	921.5	532.8	480.0	422.1	359.1	303.7	278.0	276.7
37.5°	5900.7	5634.3	3562.3	658.9	477.5	413.1	343.6	274.1	232.9	216.2	214.9
40°	6568.6	6178.6	3091.2	534.1	426.0	348.8	265.1	212.3	184.0	171.2	172.5
42.5°	7370.3	6761.6	2526.3	460.7	375.8	287.0	207.2	167.3	149.3	140.3	137.7
45°	8260.9	7336.9	1934.3	410.5	325.6	231.7	162.2	132.6	118.4	113.3	113.3
47.5°	9240.3	7896.7	1415.6	366.8	271.5	178.9	130.0	108.1	96.5	92.7	91.4
50°	10129.6	8285.4	1020.5	320.4	222.6	141.6	105.5	90.1	82.4	77.2	77.2
52.5°	10870.8	8407.6	751.6	270.3	180.2	113.3	87.5	77.2	69.5	65.6	65.6
55°	11523.3	8357.4	558.5	222.6	145.4	92.7	74.6	65.6	59.2	55.3	55.3
57.5°	12148.8	8195.3	417.0	181.5	117.1	74.6	63.1	55.3	48.9	46.3	46.3
60°	12659.7	7925.0	310.2	146.7	93.9	60.5	52.8	45.0	39.9	36.0	36.0
62.5°	13074.1	7626.4	227.8	121.0	74.6	47.6	41.2	37.3	29.6	25.7	25.7
65°	13076.7	7131.0	171.2	100.4	57.9	37.3	30.9	29.6	19.3	15.4	14.2
67.5°	12130.8	6147.7	131.3	86.2	45.0	28.3	23.2	24.5	10.3	6.4	5.1
68°	11787.1	5898.1	123.5	84.9	42.5	27.0	21.9	24.5	9.0	5.1	3.9
70°	9937.8	4692.2	99.1	82.4	37.3	20.6	18.0	24.5	7.7	3.9	2.6
72.5°	6356.2	2723.2	73.4	65.6	28.3	15.4	11.6	21.9	7.7	2.6	1.3
75°	2705.2	844.2	50.2	46.3	16.7	11.6	7.7	14.2	5.1	1.3	0.0
77.5°	570.1	190.5	29.6	28.3	11.6	7.7	5.1	3.9	1.3	0.0	0.0
80°	146.7	55.3	15.4	14.2	6.4	3.9	2.6	0.0	0.0	0.0	0.0
82.5°	46.3	21.9	9.0	6.4	2.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.2	12.9	5.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.9	3.9	1.3	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)