

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: P323153

Luminaire Tested: **GAN-SA9A-730-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323153  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9A-730-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31425 lumens  
Efficiency: N/A  
Efficacy: 108.4 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

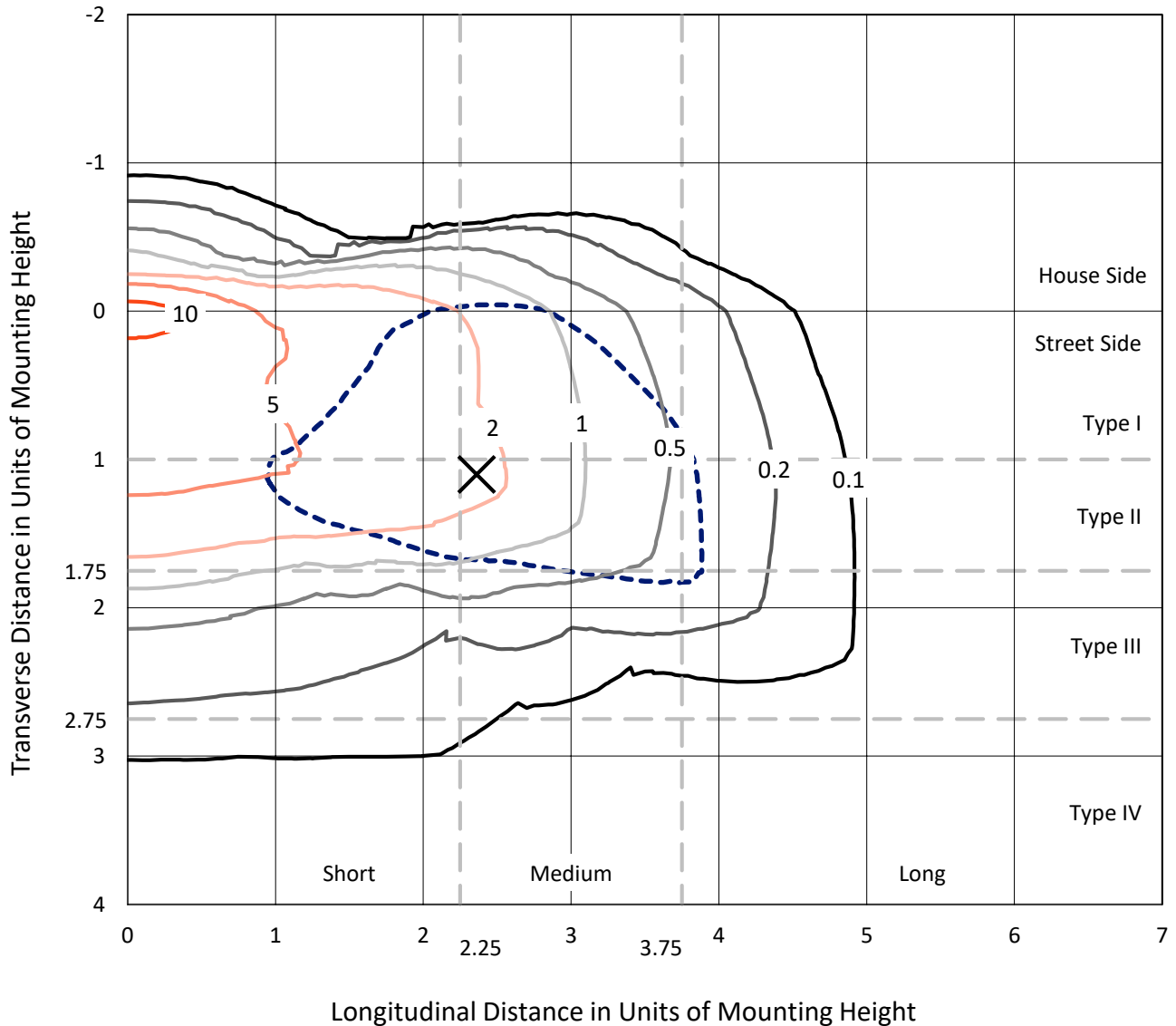
Input Watts (W): 290  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

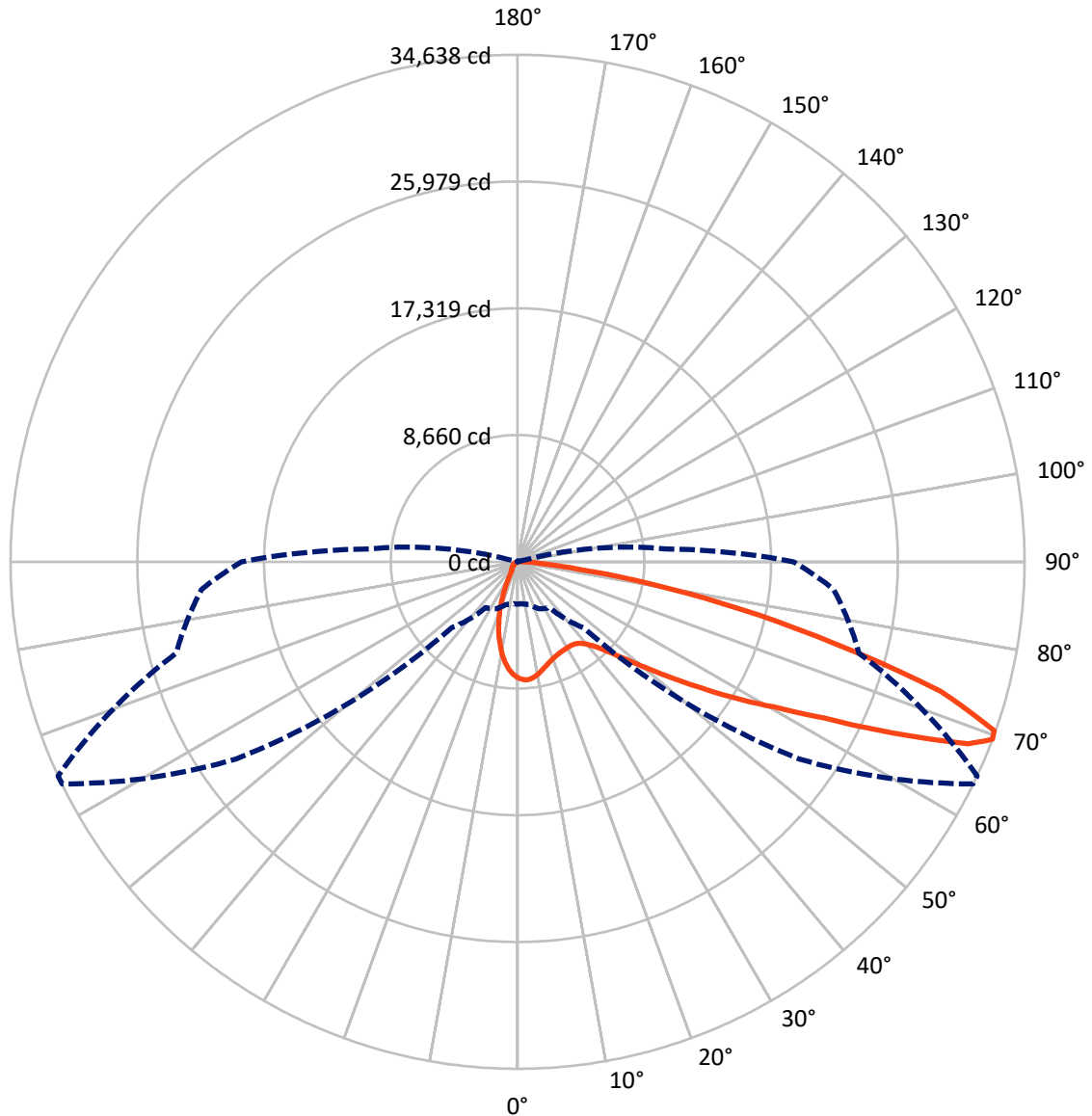
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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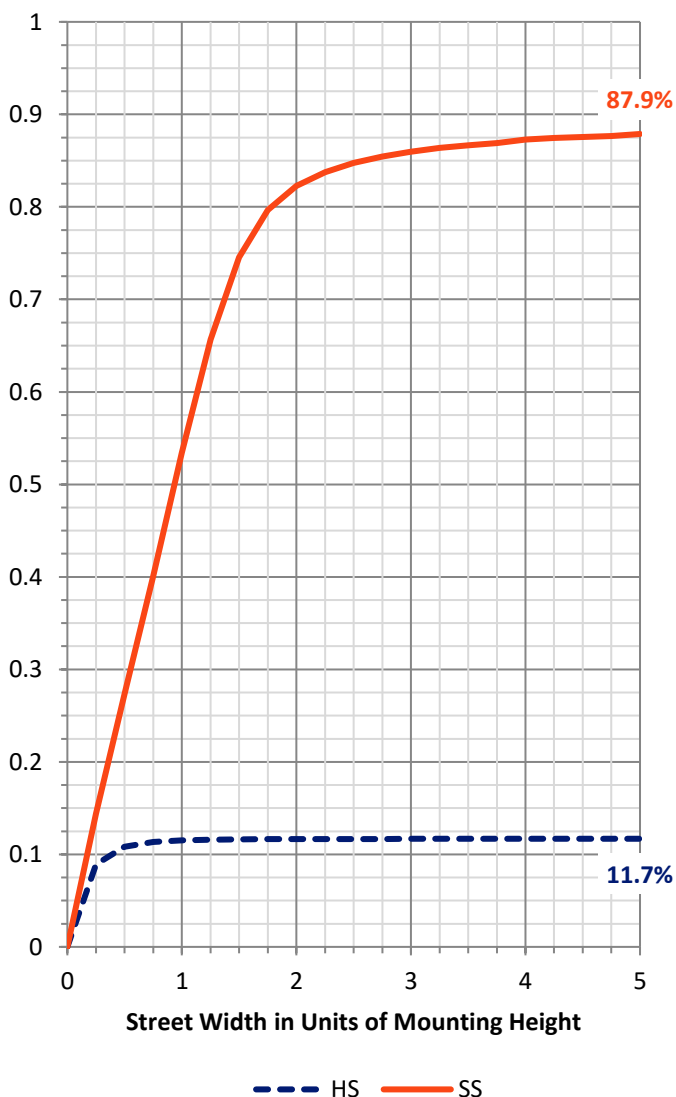
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3704.3	0.0	3704.3
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	27720.7	0.0	27720.7
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	31425.0	0.0	31425.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	664.0	2.1
10°-20°	1453.6	4.6
20°-30°	2013.3	6.4
30°-40°	2807.2	8.9
40°-50°	4363.3	13.9
50°-60°	7004.8	22.3
60°-70°	7923.6	25.2
70°-80°	4653.6	14.8
80°-90°	541.3	1.7
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°	31425.0	100.0
0°-180°	31425.0	100.0

**Coefficient of Utilization**

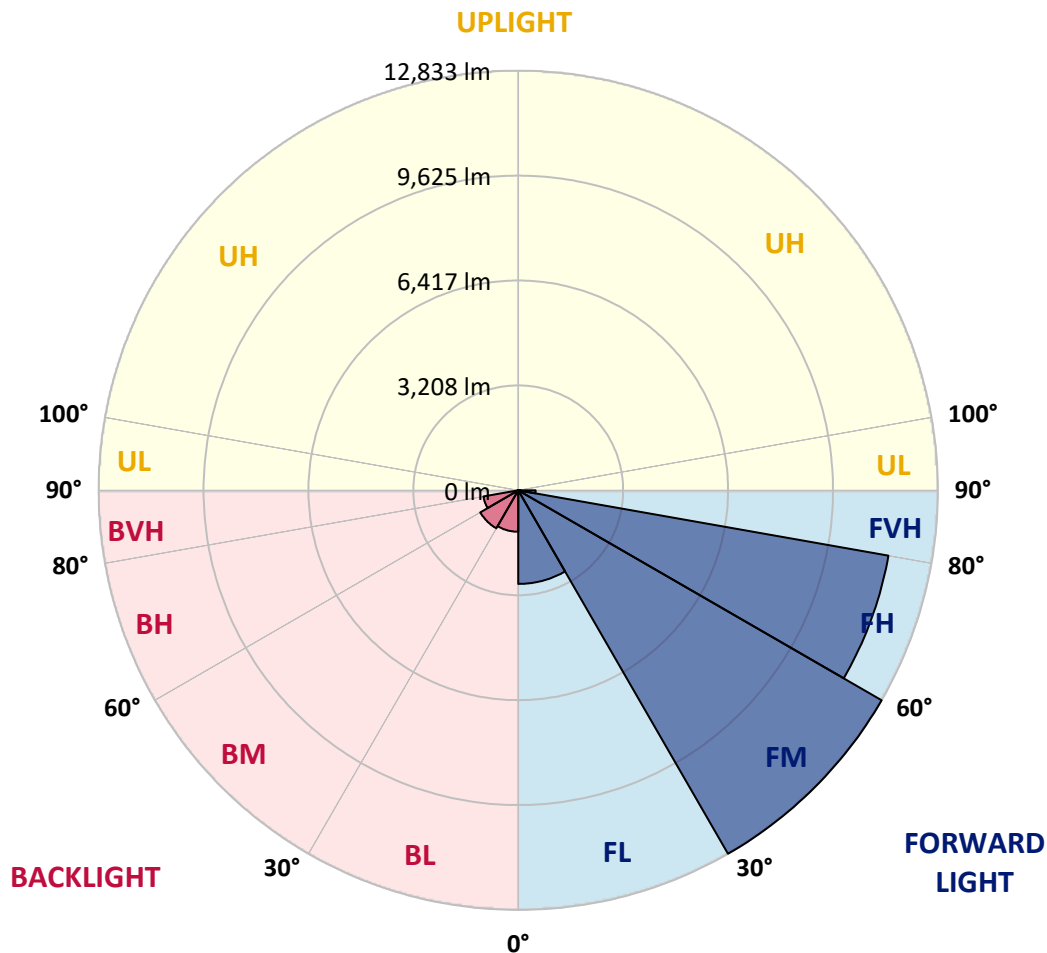


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2863.6	9.1			
FM (30°-60°)	12833.1	40.8			
FH (60°-80°)	11495.0	36.6			G4/12000
FVH (80°-90°)	529.2	1.7			G4/750
BL (0°-30°)	1267.4	4.0	B3/2500		
BM (30°-60°)	1342.3	4.3	B2/2500		
BH (60°-80°)	1082.3	3.4	B3/2500		G3/2500
BVH (80°-90°)	12.2	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	7941.2	7941.2	7941.2	7941.2	7941.2	7941.2	7941.2	7941.2	7941.2	7941.2	7941.2
2.5°	8011.6	7991.7	8007.6	8042.2	8059.5	8059.5	8072.8	8056.8	8062.2	8023.6	7967.7
5°	7510.3	7479.7	7523.6	7620.7	7740.4	7842.8	7994.3	8074.1	8082.1	8083.4	8018.3
7.5°	6970.4	6942.5	7007.7	7122.0	7276.3	7466.4	7731.1	7962.4	7975.7	8100.7	8052.8
10°	6531.6	6511.7	6587.5	6709.8	6890.7	7103.4	7427.9	7749.7	7788.2	8064.8	8047.5
12.5°	6183.2	6167.3	6239.1	6380.0	6564.9	6800.2	7139.3	7513.0	7564.8	7983.7	8020.9
15°	5929.3	5926.6	5986.4	6122.1	6326.9	6546.3	6893.3	7293.6	7353.4	7895.9	8016.9
17.5°	5796.3	5800.3	5844.2	5959.9	6135.4	6353.5	6685.9	7108.7	7173.9	7817.5	8036.9
20°	5783.0	5787.0	5810.9	5876.1	6018.4	6211.2	6517.0	6953.2	7021.0	7759.0	8068.8
22.5°	5900.0	5897.4	5904.0	5897.4	5977.1	6123.4	6405.3	6833.5	6911.9	7720.4	8094.1
25°	6124.7	6120.8	6118.1	6068.9	6015.7	6094.2	6358.8	6765.7	6840.1	7692.5	8108.7
27.5°	6437.2	6434.6	6430.6	6349.5	6189.9	6140.7	6364.1	6740.4	6802.9	7669.9	8106.0
30°	6848.1	6866.7	6861.4	6748.4	6499.7	6283.0	6419.9	6727.1	6781.6	7626.0	8078.1
32.5°	7330.8	7368.0	7397.3	7276.3	6965.1	6564.9	6548.9	6741.7	6781.6	7592.8	8027.6
35°	7832.1	7880.0	7987.7	7945.1	7535.6	6989.1	6771.0	6829.5	6862.7	7611.4	8003.6
37.5°	8325.4	8382.6	8616.7	8740.3	8282.9	7550.2	7116.7	7046.2	7063.5	7724.4	8030.2
40°	8898.6	8985.0	9340.0	9539.5	9175.1	8301.5	7634.0	7418.6	7425.2	7973.1	8153.9
42.5°	9651.2	9740.3	10124.6	10437.1	10180.4	9250.9	8336.1	7987.7	7981.0	8438.5	8445.1
45°	10568.7	10661.8	11059.4	11406.4	11290.7	10375.9	9235.0	8818.8	8810.8	9172.5	8997.0
47.5°	11608.6	11700.3	12055.3	12413.0	12538.0	11689.7	10379.9	9953.0	9934.4	10192.4	9849.3
50°	12500.8	12560.6	12887.8	13369.1	13932.9	13304.0	11804.0	11393.1	11373.2	11547.4	11100.6
52.5°	12825.3	12859.8	13192.3	13866.4	15273.3	15490.0	13675.0	13145.7	13131.1	13206.9	12766.7
55°	12168.4	12230.9	12639.1	13639.0	15999.3	17960.7	16036.6	15315.8	15205.5	15041.9	14508.7
57.5°	10378.5	10478.3	10917.1	12246.8	15660.2	19920.7	19507.2	17770.5	17608.3	16608.3	15924.9
60°	7776.3	7898.6	8262.9	9697.7	13850.5	20618.8	23299.5	20505.8	20140.1	17855.6	17226.7
62.5°	5336.2	5397.4	5644.7	6579.5	10200.4	19475.2	26472.3	24169.2	23501.7	19212.0	18634.8
65°	4075.6	4096.9	4198.0	4519.8	6074.2	15819.8	27734.2	29002.8	28195.6	20834.2	20096.2
67.5°	3284.4	3267.1	3406.8	3866.9	4067.6	9651.2	26262.2	33575.7	33198.1	23003.0	21566.9
69°	2896.2	2872.2	3014.5	3549.1	3820.3	6380.0	23477.7	34614.2	34638.2	24147.9	21668.0
70°	2606.3	2622.2	2763.2	3360.2	3736.5	5007.8	20818.3	34349.6	34538.4	24576.1	21061.6
72.5°	1740.6	1783.2	2066.4	2789.8	3592.9	3789.7	12569.9	29476.1	30202.2	23612.0	18069.7
75°	981.3	1013.3	1349.7	2103.6	3385.5	3608.9	6639.3	21715.8	22417.9	19745.2	13934.2
77.5°	481.4	498.6	763.3	1357.7	2831.0	3438.7	3765.8	14750.7	15552.5	12887.8	7881.3
80°	203.4	212.8	381.6	837.7	2023.9	3281.8	2796.4	9078.1	9177.8	5049.0	2099.6
82.5°	78.5	81.1	160.9	522.6	1285.8	2558.4	2339.0	4304.3	4200.6	950.8	478.7
85°	9.3	10.6	58.5	313.8	715.4	1316.4	1900.2	1855.0	1716.7	188.8	246.0
87.5°	0.0	0.0	4.0	95.7	212.8	617.0	988.0	769.9	694.1	61.2	127.7
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°	7941.2	7941.2	7941.2	7941.2	7941.2	7941.2	7941.2	7941.2	7941.2	7941.2	7941.2
2.5°	7921.2	7907.9	7836.1	7732.4	7634.0	7511.6	7394.6	7324.2	7268.3	7231.1	7275.0
5°	7942.5	7884.0	7665.9	7386.7	7112.7	6804.2	6517.0	6273.7	6177.9	6071.6	6119.4
7.5°	7935.8	7825.5	7433.2	6935.9	6433.2	5913.3	5421.3	5042.3	4845.5	4652.7	4701.9
10°	7902.6	7716.4	7122.0	6385.4	5632.7	4885.4	4187.3	3656.8	3360.2	3091.6	3130.2
12.5°	7829.5	7570.2	6755.0	5755.1	4748.5	3763.1	2945.4	2265.9	1901.5	1740.6	1760.6
15°	7785.6	7427.9	6366.8	5116.8	3804.4	2620.9	1800.5	1339.0	1172.8	1119.6	1126.3
17.5°	7764.3	7290.9	5965.2	4386.8	2839.0	1668.8	1163.5	1026.6	990.6	981.3	984.0
20°	7743.0	7152.6	5551.6	3664.7	1956.0	1122.3	956.1	916.2	902.9	890.9	893.6
22.5°	7707.1	7019.6	5107.5	2933.4	1319.1	910.9	861.7	823.1	795.2	780.6	783.2
25°	7663.2	6880.0	4654.1	2184.7	962.7	812.5	765.9	711.4	678.2	651.6	652.9
27.5°	7592.8	6708.5	4186.0	1590.4	808.5	727.4	664.9	605.0	549.2	518.6	518.6
30°	7494.4	6514.4	3666.1	1138.2	724.7	643.6	567.8	493.3	433.5	405.6	402.9
32.5°	7385.3	6312.2	3140.8	863.0	658.2	565.1	478.7	400.2	347.1	324.5	323.1
35°	7292.2	6094.2	2616.9	723.4	591.7	489.3	394.9	328.4	285.9	267.3	265.9
37.5°	7232.4	5876.1	2106.3	646.2	531.9	418.9	331.1	271.3	240.7	226.1	224.7
40°	7223.1	5713.9	1639.6	587.7	476.0	356.4	276.6	230.0	202.1	186.2	184.8
42.5°	7344.1	5620.8	1257.9	538.5	418.9	301.8	235.4	196.8	167.5	151.6	150.3
45°	7661.9	5650.0	968.0	494.7	361.7	255.3	199.5	163.6	137.0	125.0	122.3
47.5°	8241.7	5852.1	769.9	450.8	307.2	216.7	170.2	135.6	113.0	101.1	99.7
50°	9273.5	6326.9	643.6	402.9	256.6	184.8	141.0	110.4	91.8	81.1	79.8
52.5°	10643.2	7172.6	574.4	356.4	212.8	156.9	115.7	87.8	71.8	63.8	62.5
55°	12153.7	8196.5	529.2	305.8	174.2	130.3	91.8	69.1	55.8	49.2	46.5
57.5°	13628.4	9083.4	486.7	256.6	144.9	106.4	73.1	54.5	43.9	37.2	35.9
60°	14983.4	9898.5	437.5	206.1	118.3	83.8	57.2	42.6	34.6	27.9	27.9
62.5°	16434.1	10528.8	369.7	160.9	97.1	63.8	46.5	38.6	27.9	23.9	22.6
65°	17971.3	10996.9	289.9	125.0	75.8	47.9	38.6	39.9	22.6	17.3	16.0
67.5°	19106.9	10903.8	214.1	98.4	58.5	37.2	37.2	42.6	19.9	13.3	12.0
69°	18856.9	10147.2	179.5	85.1	50.5	31.9	34.6	42.6	18.6	12.0	10.6
70°	18132.2	9309.4	158.2	75.8	45.2	29.3	33.2	41.2	17.3	12.0	10.6
72.5°	15100.4	7011.7	123.7	57.2	35.9	23.9	27.9	35.9	17.3	12.0	9.3
75°	11358.6	4487.8	94.4	41.2	26.6	18.6	21.3	26.6	17.3	10.6	9.3
77.5°	6180.6	1618.3	67.8	27.9	18.6	14.6	14.6	19.9	16.0	8.0	5.3
80°	1589.0	406.9	42.6	18.6	14.6	10.6	9.3	13.3	9.3	1.3	0.0
82.5°	392.3	91.8	22.6	13.3	10.6	4.0	4.0	6.6	4.0	0.0	0.0
85°	215.4	45.2	14.6	9.3	5.3	0.0	0.0	1.3	0.0	0.0	0.0
87.5°	110.4	13.3	4.0	2.7	1.3	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)