

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: McGRAW-EDISON

Report Number: P455402

Luminaire Tested: **GALN-SA6C-750-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455402  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6C-750-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5000K, 1050mA 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: 30608 lumens  
Efficiency: N/A  
Efficacy: 95.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 321  
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

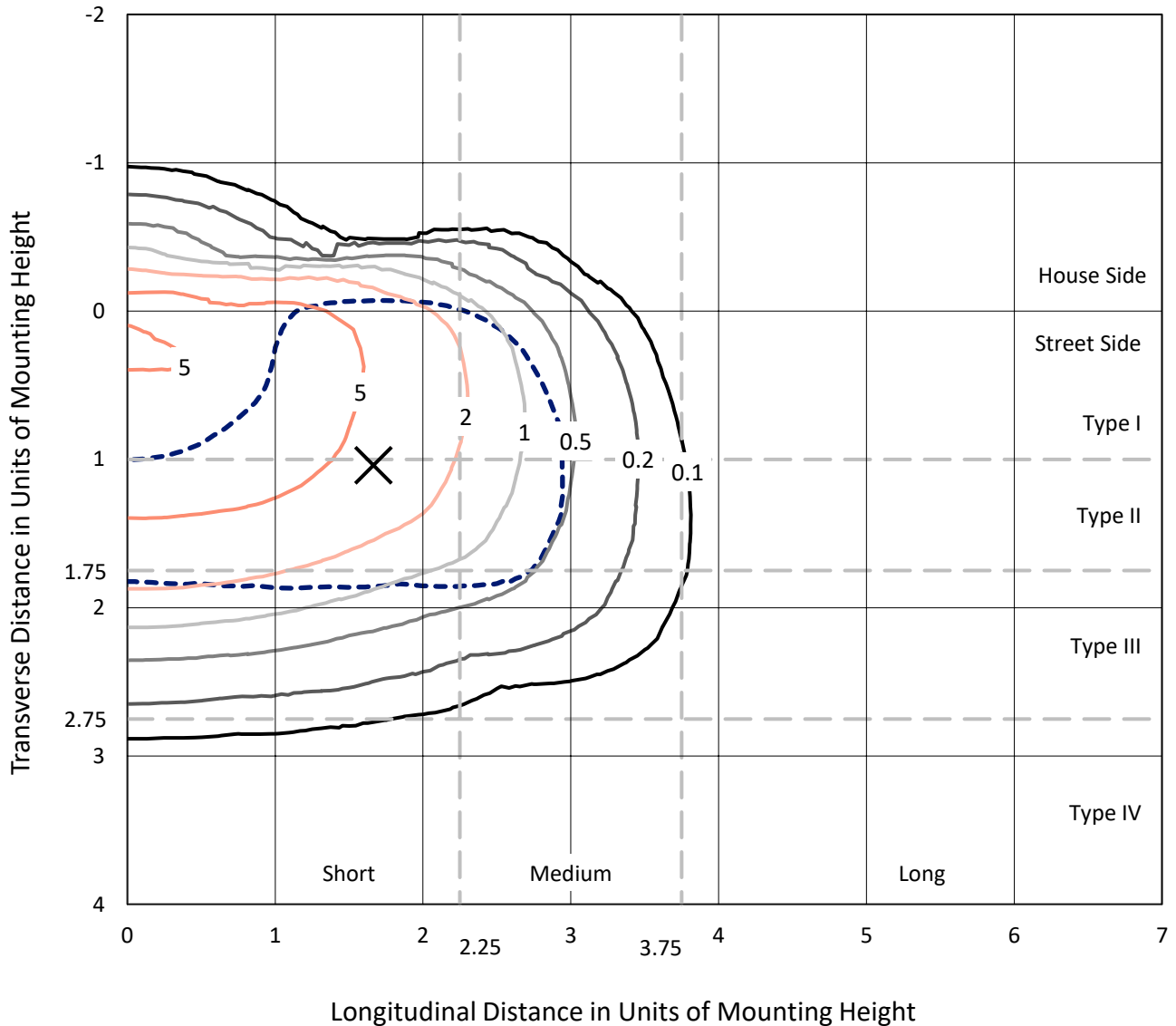




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### Iso-Footcandle Lines of Horizontal Illumination

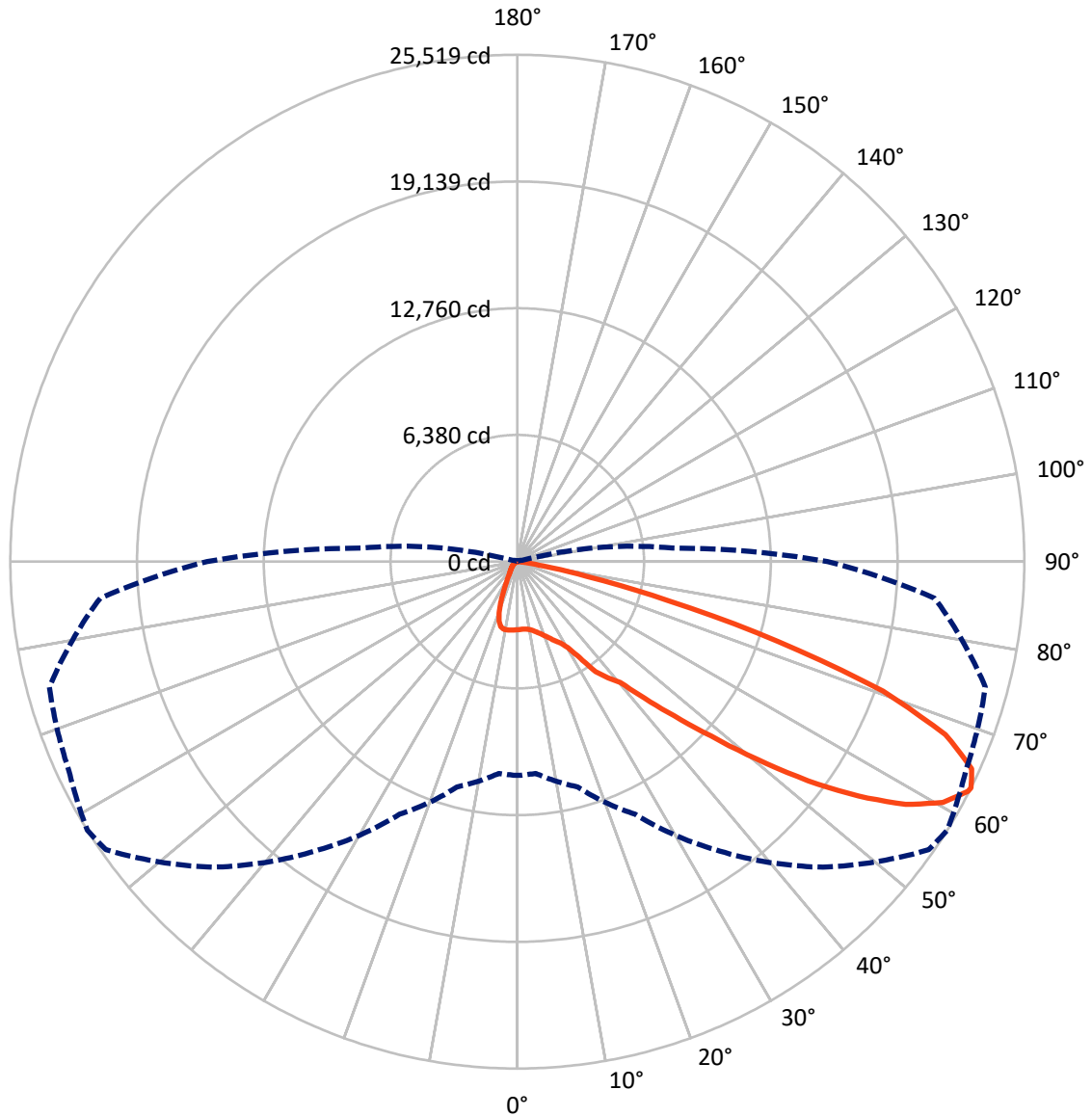
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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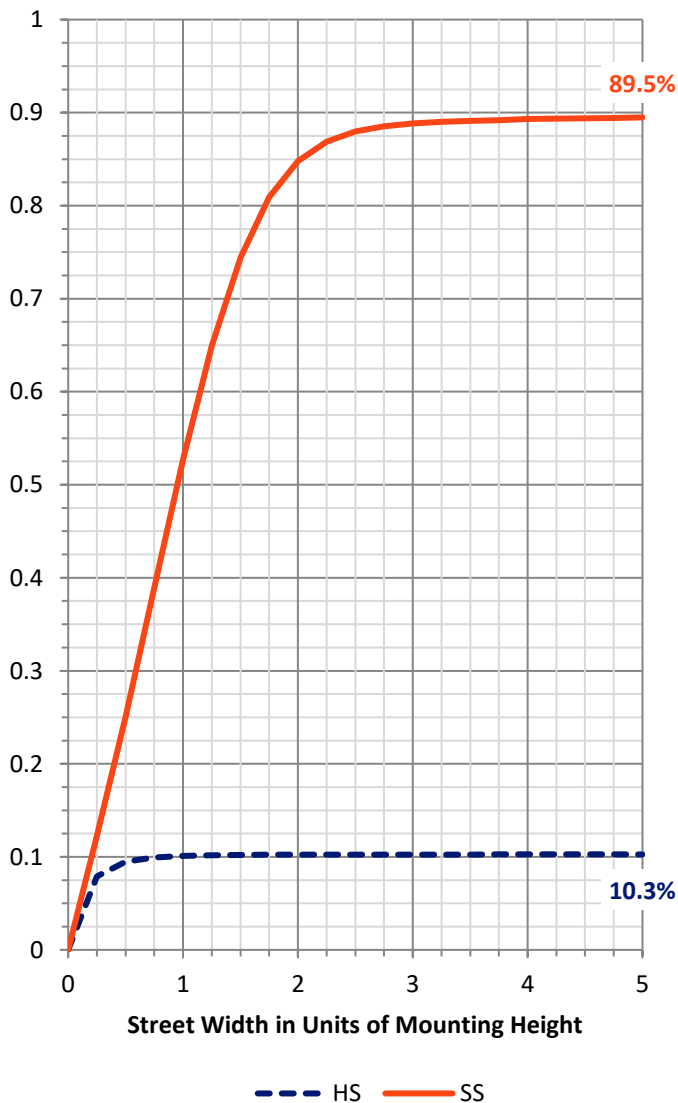
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3169.2	0.0	3169.2
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	27438.7	0.0	27438.7
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	30608.0	0.0	30608.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	320.8	1.0
10°-20°	873.7	2.9
20°-30°	1516.3	5.0
30°-40°	2786.5	9.1
40°-50°	5245.5	17.1
50°-60°	8971.9	29.3
60°-70°	8590.7	28.1
70°-80°	2190.6	7.2
80°-90°	112.0	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°	30608.0	100.0
0°-180°	30608.0	100.0

**Coefficient of Utilization**



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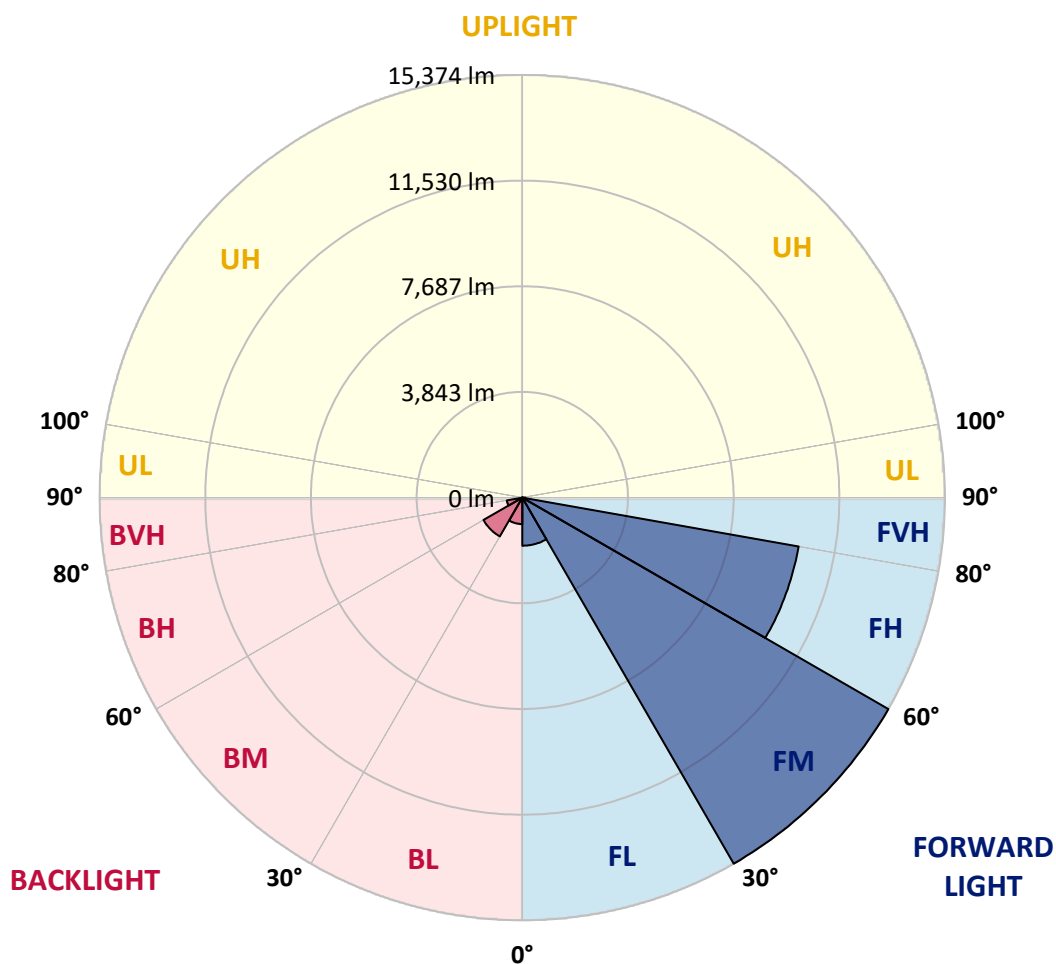
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1749.7	5.7			
FM	(30°-60°)	15373.8	50.2			
FH	(60°-80°)	10207.6	33.3			G4/12000
FVH	(80°-90°)	107.7	0.4			G2/225
BL	(0°-30°)	961.1	3.1	B2/1000		
BM	(30°-60°)	1630.1	5.3	B2/2500		
BH	(60°-80°)	573.7	1.9	B2/1000		G2/1000
BVH	(80°-90°)	4.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7
2.5°	3341.4	3352.9	3364.5	3369.1	3385.2	3401.3	3412.9	3410.6	3429.0	3438.2	3438.2
5°	3207.8	3207.8	3237.7	3265.4	3311.5	3357.6	3401.3	3410.6	3445.1	3477.4	3488.9
7.5°	3094.8	3101.8	3124.8	3175.5	3237.7	3318.4	3405.9	3426.7	3486.6	3558.0	3588.0
10°	3041.8	3046.5	3076.4	3129.4	3207.8	3318.4	3440.5	3479.7	3571.9	3684.8	3726.3
12.5°	3030.3	3037.2	3067.2	3127.1	3217.0	3350.6	3516.6	3558.0	3691.7	3836.9	3899.1
15°	3051.1	3055.7	3085.6	3150.2	3249.2	3408.2	3618.0	3675.6	3834.6	4002.8	4083.4
17.5°	3124.8	3120.2	3140.9	3193.9	3304.5	3479.7	3740.1	3809.2	3995.9	4226.3	4279.3
20°	3438.2	3408.2	3389.8	3343.7	3387.5	3581.1	3887.6	3989.0	4219.4	4454.5	4491.3
22.5°	4113.4	4046.6	3915.2	3735.5	3597.2	3719.3	4065.0	4182.5	4479.8	4710.3	4710.3
25°	4973.0	4887.7	4756.3	4364.6	4025.8	3947.5	4265.5	4413.0	4763.3	4996.0	4920.0
27.5°	6049.1	5982.3	5726.5	5270.2	4751.7	4346.2	4498.2	4634.2	5014.4	5295.6	5136.6
30°	6924.8	6892.5	6682.8	6275.0	5703.5	5111.2	4931.5	5021.3	5348.6	5673.5	5509.9
32.5°	7664.5	7664.5	7450.2	7070.0	6535.4	6009.9	5666.6	5731.1	6044.5	6420.1	6116.0
35°	8478.0	8450.3	8277.5	7915.7	7316.6	6853.4	6712.8	6800.4	7083.8	7362.6	6613.7
37.5°	9332.9	9323.7	9144.0	8793.7	8305.2	7722.1	7392.6	7415.6	7560.8	7731.4	7196.7
40°	10261.6	10275.4	10040.4	9823.8	9362.9	8766.0	8134.6	7989.5	8125.4	8607.0	8272.9
42.5°	11358.5	11326.3	11224.9	10929.9	10558.9	10201.7	9443.5	9390.5	9510.4	10026.6	9664.8
45°	12632.9	12679.0	12503.8	12340.2	12091.3	11794.1	11160.3	11068.2	11199.5	12001.5	11487.6
47.5°	13909.5	13865.7	13978.7	13948.7	14082.4	13861.1	13301.2	13112.2	13427.9	14188.4	13432.5
50°	14882.0	14930.4	15165.4	15508.8	16082.6	16207.0	15670.1	15605.6	15746.2	16234.7	15172.4
52.5°	15513.4	15674.7	16043.4	16926.0	17960.7	18765.0	18357.1	18322.5	18264.9	18396.2	16836.1
55°	15925.9	16089.5	16571.1	17870.8	19652.2	20958.8	20979.5	20832.0	20451.8	20357.3	18391.6
57.5°	15672.4	15704.7	16391.4	18128.9	20590.1	22523.5	23201.0	23053.5	22350.6	21993.5	19765.1
60°	14087.0	14153.8	15110.1	17151.9	20182.2	23035.1	24673.5	24606.7	23837.0	23433.7	20834.3
62.5°	11277.9	11471.4	12455.4	14732.2	18285.6	22173.2	25270.4	25459.3	24860.2	24304.8	21170.8
63°	10761.7	10699.5	11738.8	14027.1	17783.3	21746.9	25279.6	25519.2	24906.3	24387.8	21078.6
65°	7966.4	8153.1	8828.3	11061.3	14799.0	19762.8	24710.4	25134.4	24735.7	24021.4	20057.7
67.5°	4472.9	4463.7	5210.3	7238.2	10358.4	15501.9	22343.7	23240.2	23157.2	21555.6	16626.4
70°	2189.2	2223.8	2530.3	3751.6	6007.6	10694.8	18566.8	19534.6	19564.6	16930.6	11496.8
72.5°	990.9	1007.0	1226.0	1827.4	3087.9	5694.2	12794.2	13718.3	13547.7	10789.3	6348.7
75°	523.1	557.7	675.2	919.5	1488.7	2348.2	6959.4	7853.5	7496.3	4929.2	2336.7
77.5°	387.1	398.7	458.6	585.3	797.3	914.9	3002.7	3571.9	3346.0	1783.6	774.3
80°	283.4	292.7	341.1	414.8	502.4	465.5	1131.5	1297.4	1163.7	606.1	237.4
82.5°	172.8	175.1	248.9	308.8	315.7	260.4	373.3	401.0	419.4	341.1	129.0
85°	62.2	78.4	168.2	223.5	186.7	131.4	156.7	172.8	189.0	216.6	76.0
87.5°	6.9	9.2	80.7	108.3	53.0	48.4	57.6	64.5	69.1	80.7	36.9
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°	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7
2.5°	3447.4	3456.6	3449.7	3438.2	3435.9	3429.0	3415.2	3415.2	3415.2	3419.8	3415.2
5°	3498.1	3505.0	3488.9	3465.9	3440.5	3408.2	3373.7	3352.9	3350.6	3346.0	3334.5
7.5°	3594.9	3604.1	3567.3	3511.9	3442.8	3364.5	3290.7	3221.6	3189.3	3164.0	3164.0
10°	3735.5	3744.7	3671.0	3571.9	3433.6	3274.6	3099.5	2940.4	2816.0	2758.4	2744.6
12.5°	3903.7	3908.3	3786.2	3613.3	3385.2	3078.7	2705.4	2357.4	2115.5	2004.9	1993.3
15°	4088.1	4055.8	3894.5	3629.5	3246.9	2675.4	2030.2	1603.9	1352.7	1279.0	1306.6
17.5°	4274.7	4214.8	3977.4	3604.1	2935.8	2030.2	1364.2	1094.6	1016.3	995.5	995.5
20°	4449.8	4366.9	4037.4	3493.5	2396.6	1398.8	1011.6	947.1	933.3	919.5	921.8
22.5°	4625.0	4498.2	4090.4	3246.9	1785.9	1000.1	905.6	884.9	866.5	848.0	845.7
25°	4795.5	4620.4	4111.1	2790.7	1216.7	859.6	827.3	799.6	762.8	742.0	737.4
27.5°	4973.0	4767.9	4097.3	2214.6	887.2	769.7	737.4	698.2	654.5	617.6	617.6
30°	5314.0	5049.0	4048.9	1592.4	746.6	677.5	636.0	573.8	525.4	488.5	486.2
32.5°	5779.5	5415.4	3883.0	1120.0	663.7	596.8	534.6	465.5	414.8	387.1	387.1
35°	6194.3	5784.1	3571.9	825.0	596.8	518.5	442.5	375.6	336.4	318.0	311.1
37.5°	6825.7	6323.3	3143.2	670.6	532.3	449.4	371.0	308.8	276.5	262.7	262.7
40°	7772.8	6982.4	2617.8	587.6	470.1	382.5	308.8	260.4	235.1	218.9	218.9
42.5°	8948.1	7789.0	2085.5	527.7	412.5	329.5	258.1	221.2	198.2	186.7	184.4
45°	10427.5	8639.3	1606.2	472.4	366.4	281.1	218.9	186.7	163.6	156.7	159.0
47.5°	11971.5	9388.2	1244.4	424.0	318.0	237.4	186.7	161.3	145.2	136.0	136.0
50°	13289.6	9904.4	944.8	368.7	281.1	200.5	163.6	145.2	131.4	126.7	124.4
52.5°	14391.2	10054.2	723.6	320.3	246.6	172.8	145.2	131.4	119.8	112.9	112.9
55°	15329.1	9922.9	566.9	269.6	207.4	149.8	129.0	117.5	103.7	96.8	94.5
57.5°	15877.5	9501.2	433.2	223.5	168.2	124.4	112.9	99.1	83.0	71.4	71.4
60°	16154.0	8888.2	331.8	184.4	129.0	99.1	92.2	73.7	57.6	48.4	46.1
62.5°	15822.2	8074.7	251.2	145.2	96.8	73.7	62.2	53.0	36.9	27.7	27.7
63°	15617.1	7839.7	242.0	138.3	89.9	69.1	57.6	48.4	32.3	25.3	23.0
65°	14236.8	6814.2	198.2	110.6	71.4	48.4	39.2	34.6	23.0	11.5	9.2
67.5°	11305.5	5212.6	156.7	83.0	50.7	34.6	23.0	20.7	6.9	0.0	0.0
70°	7643.8	3366.8	122.1	59.9	34.6	20.7	11.5	9.2	2.3	0.0	0.0
72.5°	3986.7	1726.0	94.5	43.8	20.7	13.8	6.9	2.3	0.0	0.0	0.0
75°	1410.3	587.6	69.1	27.7	13.8	6.9	2.3	0.0	0.0	0.0	0.0
77.5°	426.3	218.9	43.8	20.7	9.2	4.6	0.0	0.0	0.0	0.0	0.0
80°	149.8	80.7	25.3	13.8	6.9	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	73.7	39.2	16.1	11.5	6.9	2.3	0.0	0.0	0.0	0.0	0.0
85°	41.5	25.3	13.8	11.5	6.9	4.6	0.0	0.0	0.0	0.0	0.0
87.5°	30.0	18.4	13.8	11.5	9.2	4.6	2.3	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)