

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: P483990

Luminaire Tested: **IFLD-M-SA4D-735-U-SL2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483990  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-735-U-SL2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25395.6 lumens  
Efficiency: N/A  
Efficacy: 101.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

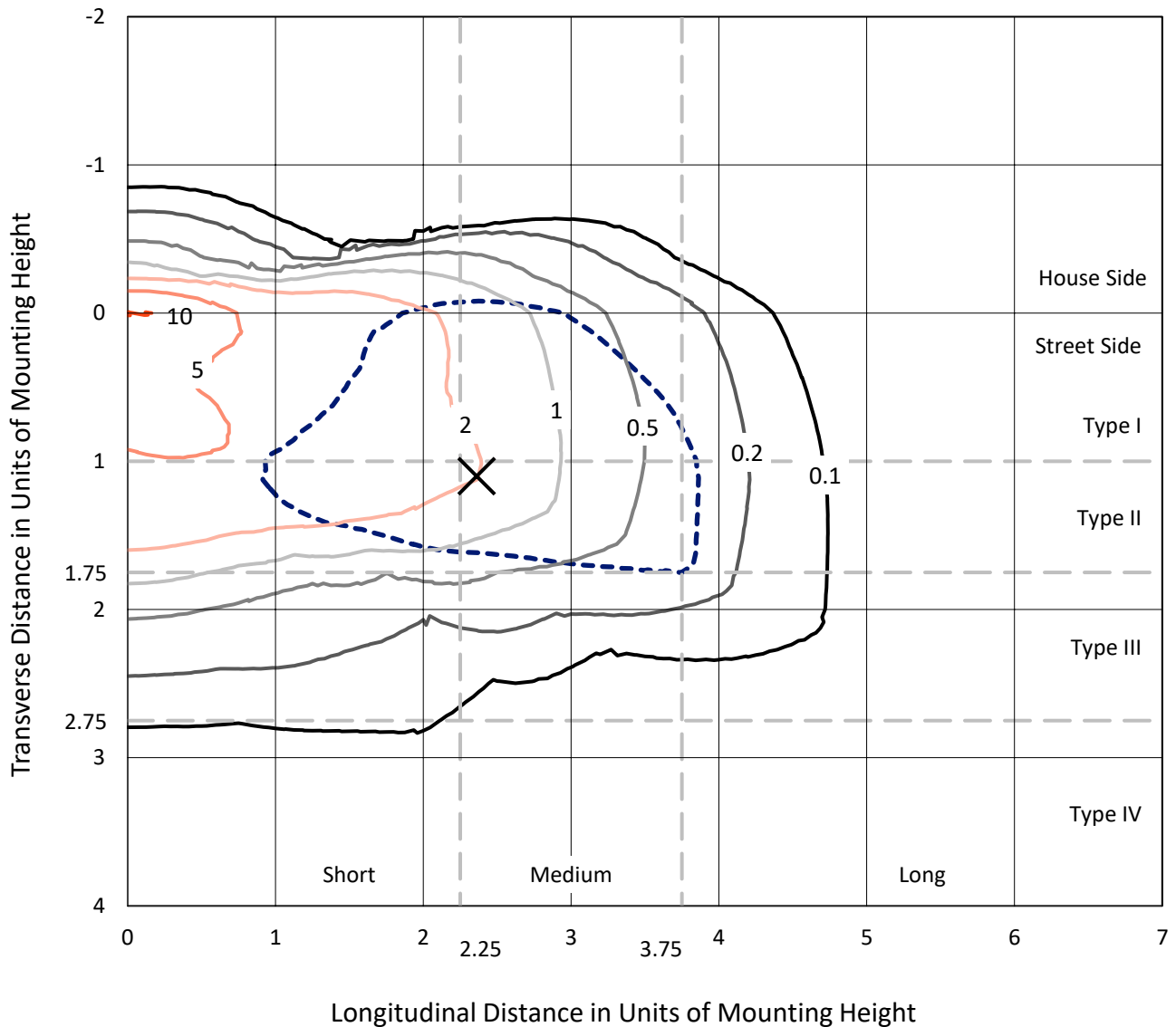
Input Watts (W): 249.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P483990  
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### Iso-Footcandle Lines of Horizontal Illumination

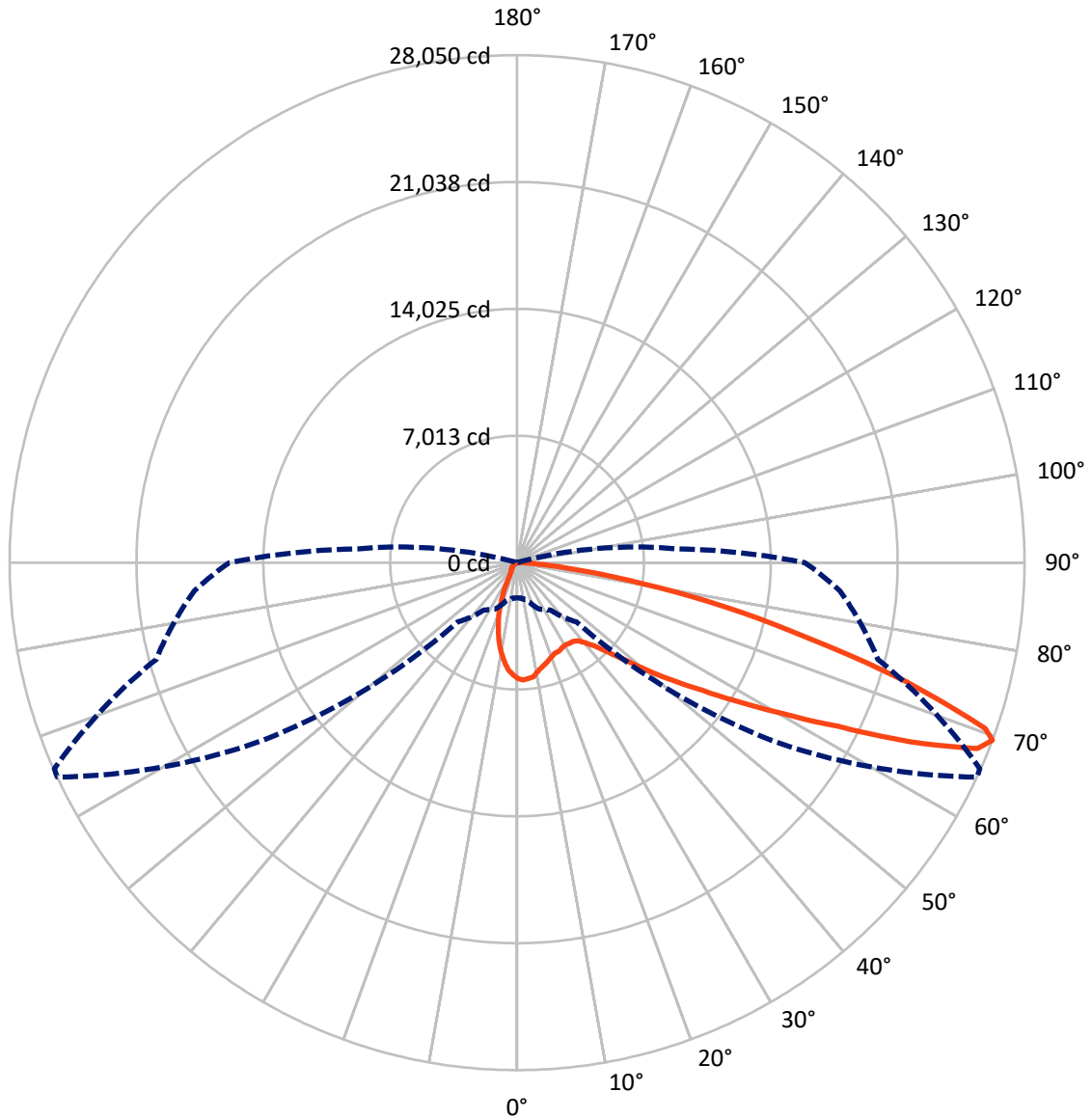
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc  
 Type II - Medium - N/A

REPORT NUMBER: P483990  
CATALOG NUMBER: IFLD-M-SA4D-735-U-SL2-HSS

### Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: IFLD-M-SA4D-735-U-SL2-HSS

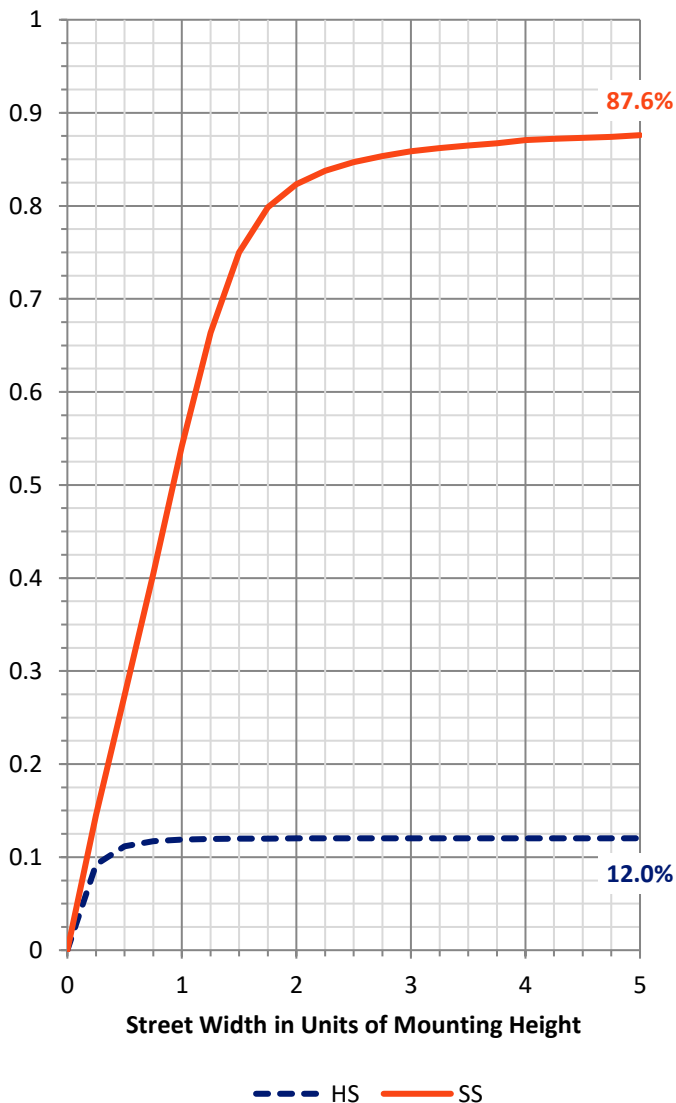
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3080.6	0.0	3080.6
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	22314.9	0.0	22314.9
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	25395.6	0.0	25395.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	524.0	2.1
10°-20°	1146.4	4.5
20°-30°	1596.1	6.3
30°-40°	2261.8	8.9
40°-50°	3564.5	14.0
50°-60°	5783.9	22.8
60°-70°	6459.5	25.4
70°-80°	3637.4	14.3
80°-90°	422.1	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°	25395.6	100.0
0°-180°	25395.6	100.0



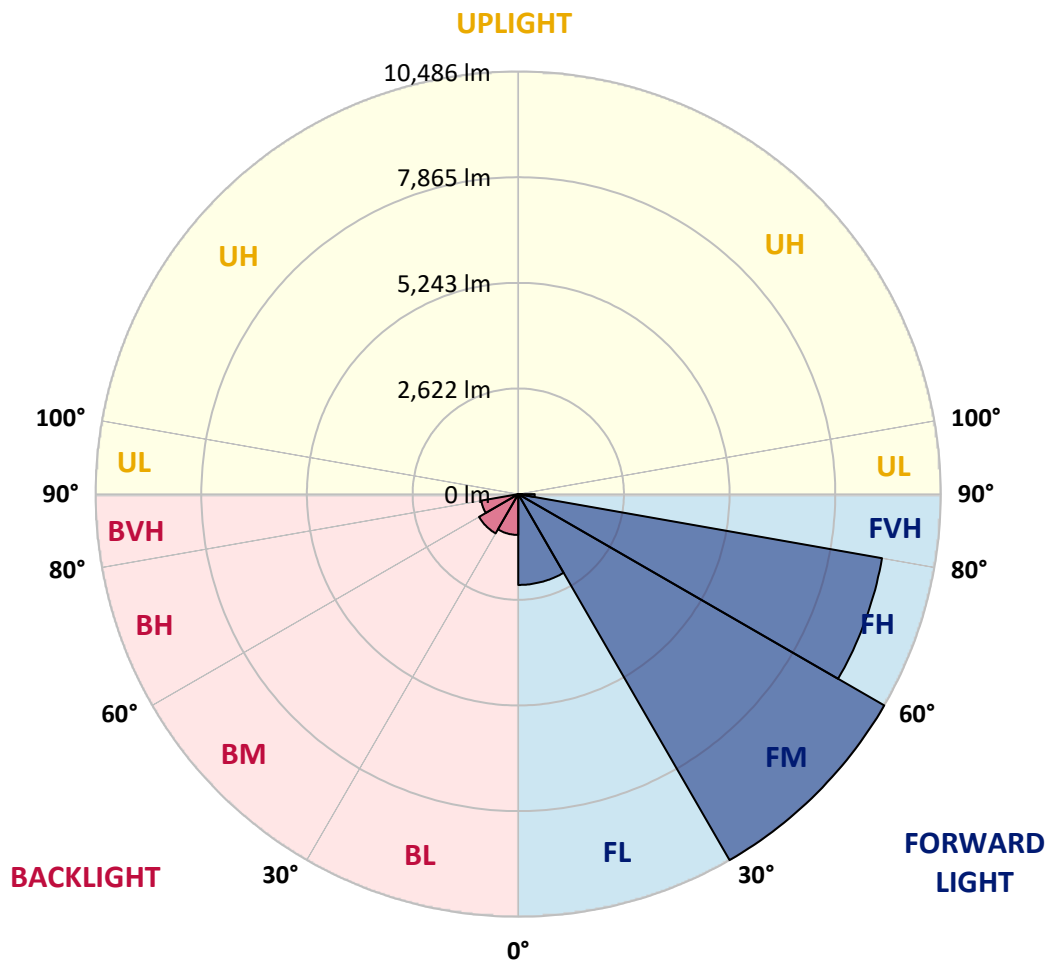
REPORT NUMBER: P483990  
 CATALOG NUMBER: IFLD-M-SA4D-735-U-SL2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2253.6	8.9			
FM (30°-60°)	10486.1	41.3			
FH (60°-80°)	9164.8	36.1			G4/12000
FVH (80°-90°)	410.4	1.6			G3/500
BL (0°-30°)	1012.8	4.0	B3/2500		
BM (30°-60°)	1124.1	4.4	B2/2500		
BH (60°-80°)	932.1	3.7	B2/1000		G2/1000
BVH (80°-90°)	11.6	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 II Medium





REPORT NUMBER: P483990

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6402.8	6402.8	6402.8	6402.8	6402.8	6402.8	6402.8	6402.8	6402.8	6402.8	6402.8
2.5°	6166.4	6214.4	6228.1	6276.1	6300.0	6402.8	6461.0	6495.3	6478.2	6515.9	6519.3
5°	5727.9	5700.5	5772.5	5823.9	5933.5	6111.6	6293.2	6433.6	6498.7	6560.4	6550.1
7.5°	5258.6	5244.9	5316.8	5433.3	5532.7	5748.5	6039.7	6385.7	6372.0	6522.7	6567.2
10°	4936.6	4950.3	4974.3	5090.7	5238.0	5457.3	5820.4	6142.5	6214.4	6533.0	6622.1
12.5°	4642.0	4665.9	4710.5	4830.4	5001.7	5227.8	5580.6	5957.5	6067.1	6474.8	6652.9
15°	4546.0	4491.2	4580.3	4669.4	4847.5	5049.6	5347.7	5817.0	5865.0	6406.2	6704.3
17.5°	4467.2	4433.0	4474.1	4546.0	4734.4	4898.9	5179.8	5666.3	5755.3	6378.8	6697.4
20°	4491.2	4460.4	4477.5	4532.3	4618.0	4772.1	5032.5	5522.4	5618.3	6252.1	6687.2
22.5°	4559.7	4583.7	4552.9	4566.6	4594.0	4672.8	4953.7	5419.6	5501.8	6228.1	6745.4
25°	4868.1	4826.9	4785.8	4768.7	4607.7	4642.0	4929.7	5412.8	5471.0	6142.5	6697.4
27.5°	5190.1	5155.8	5138.7	5039.3	4820.1	4717.3	4933.1	5316.8	5395.6	6108.2	6639.2
30°	5580.6	5625.2	5556.6	5436.7	5131.8	4878.3	4970.8	5268.9	5378.5	5978.0	6601.5
32.5°	5991.7	6015.7	6050.0	5960.9	5566.9	5121.6	5083.9	5313.4	5320.3	5978.0	6515.9
35°	6457.6	6423.4	6512.4	6519.3	6173.3	5553.2	5299.7	5344.2	5416.2	5950.6	6485.0
37.5°	6858.4	6916.7	7019.5	7183.9	6827.6	6163.0	5635.4	5488.1	5519.0	6077.4	6509.0
40°	7296.9	7355.2	7588.1	7752.6	7550.5	6848.2	6145.9	5823.9	5847.8	6265.8	6632.3
42.5°	7780.0	7893.0	8170.5	8458.3	8403.5	7718.3	6803.6	6317.2	6306.9	6735.1	6885.8
45°	8434.3	8585.0	8886.5	9218.8	9266.8	8715.2	7680.6	7053.7	7088.0	7348.3	7410.0
47.5°	9345.6	9338.7	9633.3	10003.3	10280.8	9749.8	8728.9	8043.8	8040.3	8317.8	8187.6
50°	10226.0	10229.4	10308.2	10736.4	11455.9	11185.2	10027.3	9359.3	9321.6	9458.6	9249.6
52.5°	10633.7	10585.7	10527.5	11044.8	12360.3	12994.0	11671.7	10849.5	10818.7	10736.4	10681.6
55°	10205.4	10222.6	10219.1	10757.0	12836.5	14902.2	13782.0	12490.4	12439.1	12182.1	12257.5
57.5°	8831.7	8776.9	8896.8	9736.1	12291.8	16204.0	16800.1	14559.6	14426.0	13573.0	13401.7
60°	6574.1	6591.2	6690.6	7680.6	10938.6	16478.1	19688.0	16988.5	16413.0	14552.8	14316.4
62.5°	4590.6	4556.3	4594.0	5149.0	7821.1	15381.8	21640.7	19941.6	19386.6	15666.2	15529.1
65°	3285.3	3240.8	3391.5	3730.7	4696.8	11760.8	21918.2	23874.4	23377.6	17444.1	17115.3
67.5°	2363.8	2356.9	2531.7	3148.3	3336.7	6772.8	19862.8	27437.2	27135.7	19554.4	18081.3
69°	1956.1	1959.6	2127.4	2819.4	3186.0	4624.8	17091.3	28050.4	27995.6	20643.8	17899.8
70°	1706.0	1719.7	1915.0	2624.2	3124.3	3802.6	14734.3	27447.5	27392.7	20856.2	17300.3
72.5°	1051.7	1062.0	1318.9	2103.4	2970.2	3103.8	8811.1	22456.1	22644.5	19883.3	14905.6
75°	503.6	507.0	692.0	1521.1	2864.0	2942.8	4720.7	16570.6	16968.0	16053.3	11647.7
77.5°	267.2	267.2	332.3	808.5	2319.3	2768.0	2802.3	11688.8	12017.7	10150.6	6622.1
80°	133.6	137.0	202.1	421.4	1438.8	2713.2	2189.1	6971.5	7149.6	4141.8	2062.3
82.5°	51.4	54.8	95.9	253.5	746.8	2291.9	1921.9	3429.2	3384.7	969.5	503.6
85°	6.9	6.9	34.3	150.7	318.6	1010.6	1586.1	1432.0	1384.0	212.4	243.2
87.5°	0.0	0.0	6.9	44.5	95.9	294.6	613.2	394.0	438.5	58.2	119.9
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°	6402.8	6402.8	6402.8	6402.8	6402.8	6402.8	6402.8	6402.8	6402.8	6402.8	6402.8
2.5°	6502.2	6430.2	6320.6	6214.4	6101.3	5964.3	5813.6	5758.8	5662.8	5656.0	5710.8
5°	6495.3	6378.8	6187.0	5960.9	5638.9	5395.6	5131.8	4940.0	4792.7	4696.8	4720.7
7.5°	6529.6	6389.1	6056.8	5570.3	5155.8	4672.8	4265.1	3984.2	3727.3	3600.5	3586.8
10°	6474.8	6286.3	5799.9	5118.1	4508.3	3833.5	3237.4	2860.5	2476.8	2336.4	2343.2
12.5°	6505.6	6241.8	5522.4	4652.2	3812.9	2935.9	2223.3	1709.5	1349.8	1233.3	1219.6
15°	6526.1	6145.9	5255.2	4093.8	3042.1	2000.7	1288.1	969.5	856.4	835.9	832.5
17.5°	6447.3	6029.4	4878.3	3542.3	2254.2	1216.2	856.4	791.4	770.8	757.1	750.2
20°	6443.9	5960.9	4552.9	2977.0	1503.9	829.0	740.0	716.0	685.2	674.9	674.9
22.5°	6385.7	5817.0	4162.3	2356.9	959.2	712.6	664.6	626.9	592.7	579.0	575.5
25°	6368.6	5649.1	3795.8	1771.1	729.7	637.2	589.2	534.4	493.3	472.8	462.5
27.5°	6320.6	5505.3	3425.8	1247.0	637.2	568.7	507.0	448.8	400.8	370.0	366.6
30°	6149.3	5354.5	3014.7	863.3	579.0	503.6	435.1	366.6	318.6	298.0	291.2
32.5°	6077.4	5214.1	2565.9	664.6	527.6	445.4	366.6	304.9	267.2	246.7	243.2
35°	5991.7	5008.5	2130.8	579.0	479.6	387.1	308.3	256.9	226.1	209.0	209.0
37.5°	6002.0	4844.1	1723.2	524.1	428.2	332.3	263.8	219.3	191.8	174.7	174.7
40°	5971.2	4713.9	1339.5	476.2	380.3	284.3	222.7	185.0	161.0	143.9	140.5
42.5°	6111.6	4679.6	1010.6	435.1	332.3	243.2	191.8	157.6	133.6	113.1	113.1
45°	6348.0	4734.4	787.9	397.4	284.3	209.0	164.4	130.2	106.2	92.5	89.1
47.5°	6978.3	4950.3	616.6	366.6	243.2	181.6	137.0	106.2	85.6	71.9	68.5
50°	7893.0	5433.3	524.1	322.0	205.5	154.2	113.1	82.2	68.5	54.8	51.4
52.5°	9194.8	6245.2	476.2	284.3	171.3	126.8	89.1	65.1	51.4	41.1	37.7
55°	10613.1	7259.3	431.7	239.8	143.9	102.8	71.9	51.4	37.7	27.4	24.0
57.5°	11719.6	8136.3	394.0	198.7	116.5	82.2	54.8	37.7	27.4	17.1	13.7
60°	12928.9	8752.9	346.0	157.6	95.9	61.7	41.1	27.4	20.6	10.3	10.3
62.5°	14175.9	9475.7	284.3	123.3	75.4	48.0	30.8	20.6	13.7	3.4	3.4
65°	15909.4	10041.0	219.3	95.9	58.2	34.3	24.0	17.1	6.9	0.0	0.0
67.5°	16399.3	9763.5	161.0	75.4	41.1	24.0	17.1	10.3	3.4	0.0	0.0
69°	15909.4	8794.0	140.5	65.1	34.3	20.6	13.7	6.9	3.4	0.0	0.0
70°	15015.3	8040.3	123.3	54.8	30.8	20.6	10.3	6.9	3.4	0.0	0.0
72.5°	12559.0	6166.4	95.9	41.1	24.0	17.1	10.3	6.9	0.0	0.0	0.0
75°	9212.0	3809.5	71.9	30.8	20.6	13.7	10.3	6.9	0.0	0.0	0.0
77.5°	4936.6	1390.9	51.4	20.6	13.7	10.3	10.3	6.9	0.0	0.0	0.0
80°	1353.2	411.1	37.7	13.7	10.3	6.9	6.9	3.4	0.0	0.0	0.0
82.5°	370.0	106.2	24.0	13.7	10.3	6.9	3.4	0.0	0.0	0.0	0.0
85°	198.7	41.1	13.7	10.3	6.9	3.4	0.0	0.0	0.0	0.0	0.0
87.5°	102.8	13.7	10.3	6.9	6.9	3.4	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)