

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: P484852

Luminaire Tested: **IFLD-L-SA7C-750-U-SL4-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484852  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-750-U-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (112) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

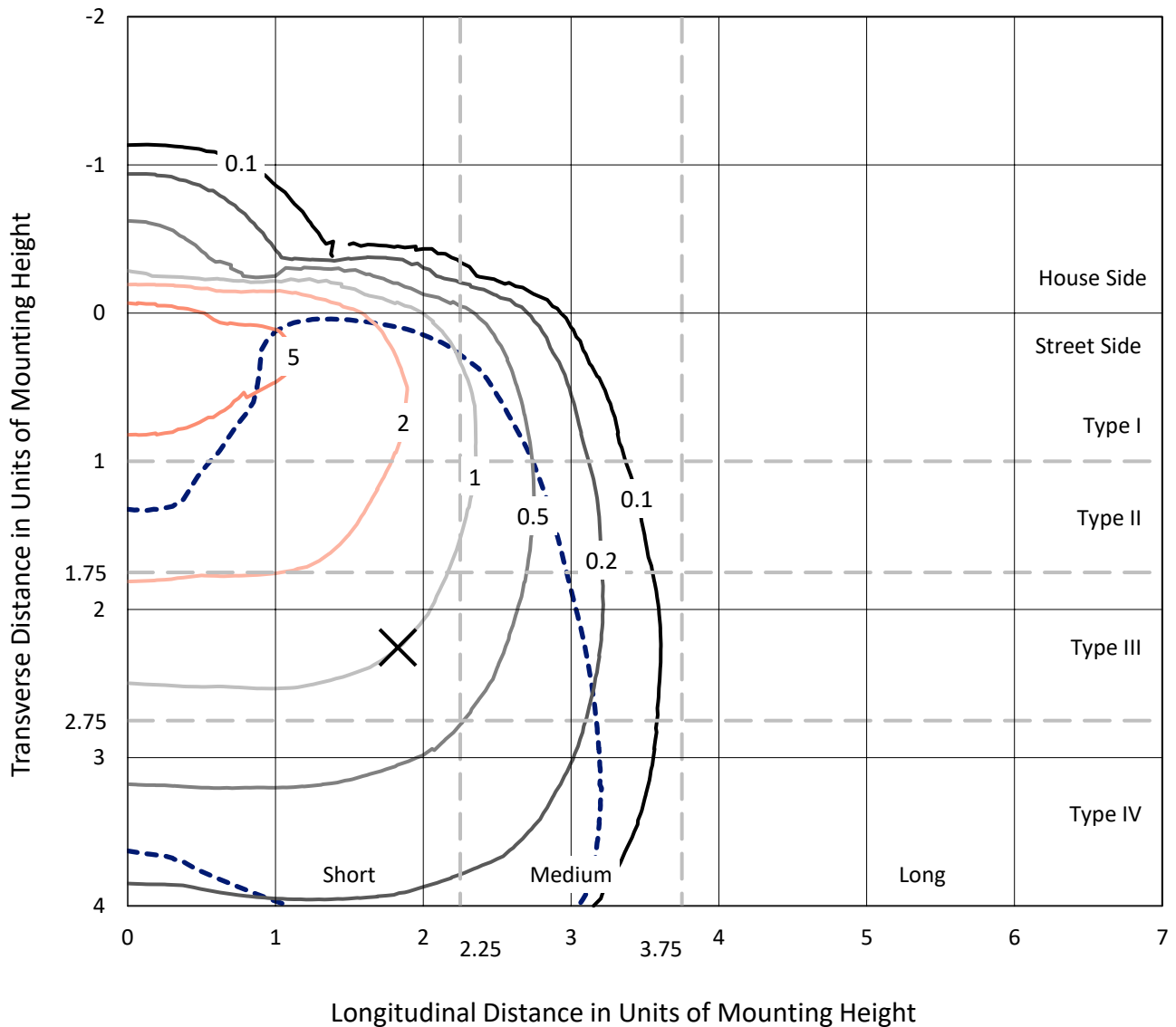
Lumens per Lamp: N/A  
Luminaire Lumens: 37461.1 lumens  
Efficiency: N/A  
Efficacy: 101.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

Input Watts (W): 369  
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

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 CATALOG NUMBER: IFLD-L-SA7C-750-U-SL4-HSS

### Iso-Footcandle Lines of Horizontal Illumination

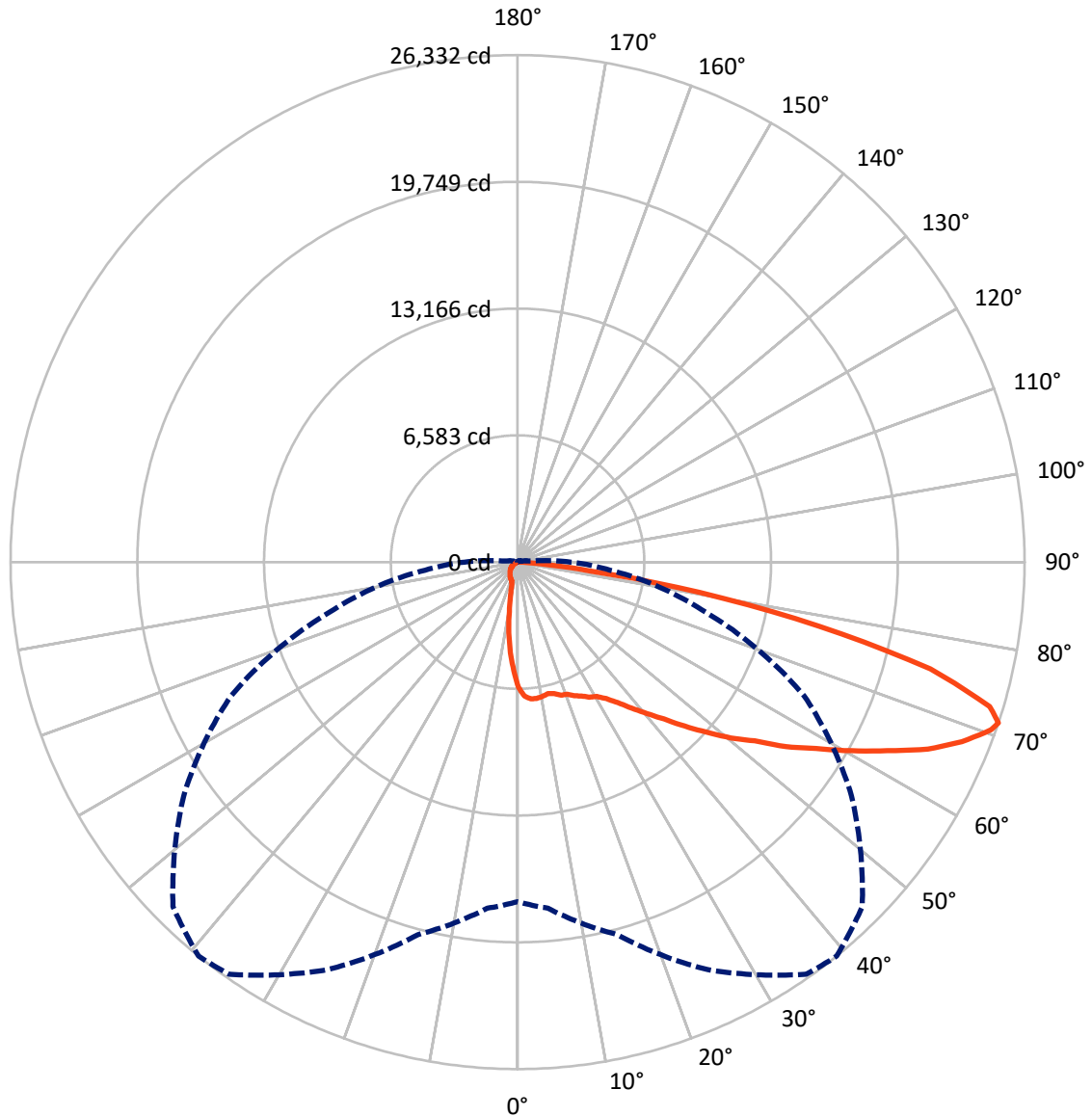
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.8 fc  
 Type IV - Short - N/A

REPORT NUMBER: P484852  
CATALOG NUMBER: IFLD-L-SA7C-750-U-SL4-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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 CATALOG NUMBER: IFLD-L-SA7C-750-U-SL4-HSS

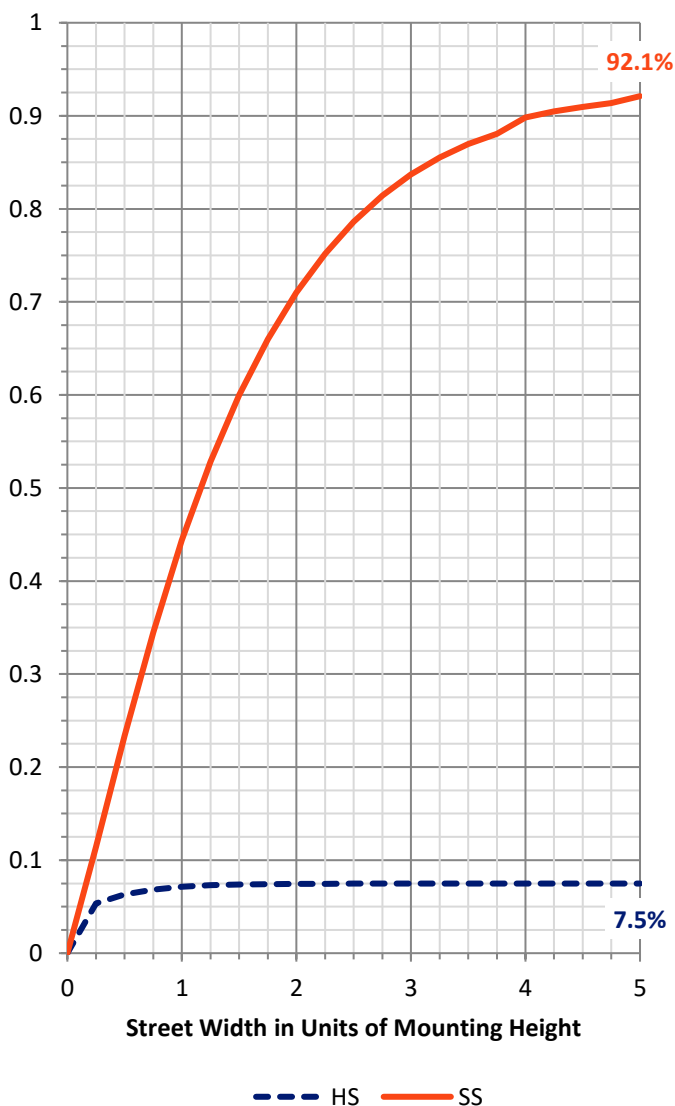
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2820.2	0.0	2820.2
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	34640.9	0.0	34640.9
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	37461.1	0.0	37461.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	545.2	1.5
10°-20°	1341.8	3.6
20°-30°	2154.0	5.7
30°-40°	3297.3	8.8
40°-50°	5292.7	14.1
50°-60°	7774.2	20.8
60°-70°	9791.3	26.1
70°-80°	6534.5	17.4
80°-90°	730.3	1.9
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°	37461.1	100.0
0°-180°	37461.1	100.0

**Coefficient of Utilization**



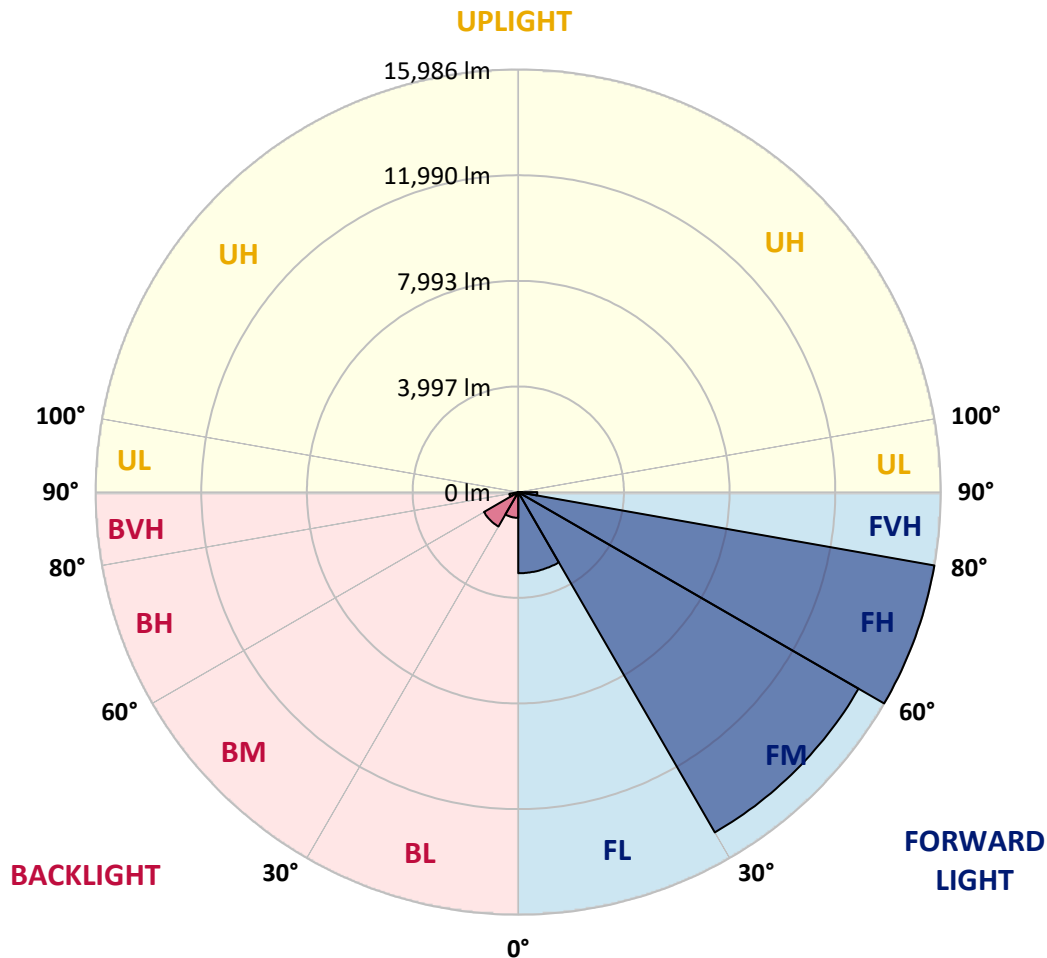
REPORT NUMBER: P484852  
 CATALOG NUMBER: IFLD-L-SA7C-750-U-SL4-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3067.3	8.2			
FM (30°-60°)	14865.1	39.7			
FH (60°-80°)	15986.3	42.7			G5
FVH (80°-90°)	722.2	1.9			G4/750
BL (0°-30°)	973.7	2.6	B2/1000		
BM (30°-60°)	1499.1	4.0	B2/2500		
BH (60°-80°)	339.4	0.9	B1/500		G1/500
BVH (80°-90°)	8.0	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-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6520.4	6520.4	6520.4	6520.4	6520.4	6520.4	6520.4	6520.4	6520.4	6520.4	6520.4
2.5°	7026.5	7095.2	7026.5	6997.0	6967.5	6972.4	6893.8	6908.5	6815.2	6692.3	6594.1
5°	7247.6	7340.9	7267.2	7232.8	7227.9	7134.6	7095.2	7001.9	6888.9	6697.2	6579.3
7.5°	7227.9	7208.3	7242.7	7213.2	7149.3	7149.3	7105.1	6972.4	6859.4	6643.2	6441.7
10°	7080.5	7139.5	7110.0	7075.6	7090.3	7095.2	7011.7	6918.4	6884.0	6667.8	6338.5
12.5°	7065.8	6967.5	7075.6	7080.5	7016.6	7011.7	7001.9	6977.3	6869.2	6672.7	6363.1
15°	7016.6	6977.3	7085.4	7090.3	7105.1	7090.3	7105.1	7085.4	6977.3	6864.3	6471.2
17.5°	7055.9	7011.7	7164.0	7237.7	7203.3	7272.1	7247.6	7159.1	7065.8	6933.1	6574.4
20°	7065.8	7129.6	7296.7	7326.2	7434.3	7321.3	7316.4	7223.0	7164.0	7021.5	6638.3
22.5°	7247.6	7277.0	7483.4	7547.3	7552.2	7537.5	7414.6	7306.5	7282.0	7105.1	6653.0
25°	7522.7	7625.9	7719.3	7758.6	7773.3	7704.5	7576.8	7439.2	7380.2	7267.2	6805.3
27.5°	8009.2	7945.3	8028.8	8087.8	7920.7	7945.3	7783.1	7665.2	7581.7	7483.4	6982.2
30°	8441.6	8382.6	8387.5	8377.7	8235.2	8102.5	8058.3	7851.9	7748.8	7788.1	7257.4
32.5°	8829.7	8702.0	8810.1	8761.0	8495.6	8456.3	8421.9	8161.5	8181.2	8363.0	7670.1
35°	9188.4	9144.2	9232.7	9144.2	8967.3	8957.5	8923.1	8697.1	8805.2	9065.6	8377.7
37.5°	9517.7	9532.4	9640.5	9596.3	9611.0	9620.8	9601.2	9360.4	9670.0	10254.7	9203.2
40°	9822.3	9802.6	10068.0	10205.6	10235.0	10343.1	10343.1	10284.2	10760.8	11419.2	10348.0
42.5°	10146.6	10195.7	10539.7	10770.6	11050.7	11144.1	11271.8	11301.3	12038.3	12790.1	11517.5
45°	10677.3	10593.7	11031.0	11576.5	11822.1	12151.3	12347.9	12514.9	13404.3	14436.2	12686.9
47.5°	11350.4	11183.4	11566.6	12357.7	12927.7	13197.9	13551.7	13772.8	14642.5	15708.8	13792.5
50°	12097.3	11925.3	12112.0	13202.9	13866.2	14357.6	14809.6	15089.7	16141.2	17133.7	14598.3
52.5°	12942.4	12785.2	12814.7	14082.4	15060.2	15418.9	16013.4	16431.1	17477.7	17993.6	14883.3
55°	13841.6	13802.3	13709.0	14942.3	16106.8	16912.6	17271.3	17772.5	18848.6	18460.4	15192.9
57.5°	14745.7	14622.9	14755.6	16082.2	17787.2	18268.8	18765.1	19064.8	19610.2	18868.2	15074.9
60°	15595.8	15605.6	15792.3	17320.5	19217.1	19900.1	20347.2	20165.4	20391.5	19045.1	14804.7
62.5°	16313.2	16293.5	16765.2	18711.0	21108.8	21570.7	21904.8	21094.1	20755.1	19217.1	14333.0
65°	16956.8	17178.0	17919.9	20366.9	22887.6	23418.2	23216.8	21973.6	21108.8	18711.0	13006.3
67.5°	17443.3	17772.5	19059.9	21924.5	24518.9	24892.3	24612.2	22641.9	20691.2	16725.9	10593.7
70°	17728.3	18062.4	19875.5	23221.7	25821.0	26091.2	25432.8	22126.0	18254.0	12112.0	6608.8
71°	17639.8	18047.7	20032.8	23359.3	26130.5	26332.0	25310.0	21172.7	16416.4	10141.7	4820.2
72.5°	16838.9	17222.2	19379.3	23261.0	25757.1	25634.3	24351.8	18883.0	12922.8	6466.3	2491.2
75°	12372.5	12785.2	16632.5	20121.2	22990.8	22145.6	19708.5	13252.0	6741.5	1980.2	727.2
77.5°	6161.7	6230.4	10323.5	14608.1	16863.5	16023.3	13207.8	7390.1	2520.7	584.7	363.6
80°	2840.1	2859.7	3871.9	7566.9	10195.7	9596.3	7399.9	3645.9	1140.0	309.6	285.0
82.5°	1936.0	1965.4	2334.0	3134.9	4427.2	3734.3	2997.3	2334.0	653.5	186.7	280.1
85°	353.8	324.3	1307.0	1660.8	1709.9	1159.6	1036.8	2019.5	245.7	108.1	245.7
87.5°	0.0	4.9	181.8	678.1	609.3	270.2	353.8	491.4	24.6	34.4	44.2
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°	6520.4	6520.4	6520.4	6520.4	6520.4	6520.4	6520.4	6520.4	6520.4	6520.4	6520.4
2.5°	6510.5	6456.5	6274.7	6073.2	5891.4	5748.9	5567.1	5483.6	5350.9	5277.2	5272.3
5°	6417.2	6269.8	5955.3	5616.2	5237.9	4923.4	4574.6	4378.0	4152.0	4083.2	4068.5
7.5°	6259.9	6048.6	5586.8	5110.1	4530.3	3975.1	3547.6	3090.7	2810.6	2692.7	2648.4
10°	6161.7	5906.2	5277.2	4564.7	3754.0	2972.7	2373.3	1886.8	1631.3	1508.5	1479.0
12.5°	6161.7	5886.5	5026.6	4043.9	2967.8	2034.2	1469.2	1189.1	1105.6	1076.1	1076.1
15°	6146.9	5847.2	4785.9	3508.3	2196.4	1366.0	1095.7	1036.8	1026.9	1022.0	1017.1
17.5°	6220.6	5778.4	4540.2	2933.4	1552.7	1076.1	1007.3	997.5	987.6	987.6	977.8
20°	6274.7	5739.1	4245.4	2324.1	1159.6	997.5	968.0	953.2	948.3	943.4	953.2
22.5°	6230.4	5680.1	3881.7	1739.4	1012.2	948.3	928.7	913.9	904.1	904.1	909.0
25°	6314.0	5626.1	3518.1	1311.9	948.3	904.1	884.4	874.6	869.7	864.8	855.0
27.5°	6427.0	5650.6	3085.7	1056.4	894.3	859.9	840.2	830.4	825.5	815.7	825.5
30°	6564.6	5645.7	2609.1	923.8	845.1	810.7	791.1	786.2	776.3	771.4	776.3
32.5°	6800.4	5773.5	2117.8	855.0	791.1	761.6	742.0	737.0	732.1	727.2	722.3
35°	7306.5	5930.7	1655.9	800.9	742.0	707.6	692.8	683.0	678.1	673.2	668.3
37.5°	7930.6	6279.6	1262.8	751.8	692.8	658.4	643.7	638.8	619.1	614.2	609.3
40°	8711.8	6653.0	972.9	697.7	648.6	614.2	599.5	584.7	560.2	550.3	540.5
42.5°	9684.7	7016.6	800.9	648.6	599.5	574.9	550.3	525.8	506.1	486.4	476.6
45°	10657.6	7439.2	702.6	604.4	560.2	530.7	511.0	476.6	442.2	412.7	407.8
47.5°	11468.4	7591.5	643.7	555.2	520.8	496.3	466.8	422.6	373.4	344.0	339.0
50°	12072.7	7503.1	584.7	506.1	476.6	452.1	412.7	358.7	309.6	280.1	270.2
52.5°	12190.7	7114.9	530.7	466.8	432.4	402.9	358.7	299.7	245.7	216.2	211.3
55°	12107.1	6471.2	486.4	432.4	393.1	348.9	299.7	240.8	191.6	162.1	157.2
57.5°	11935.1	5709.6	437.3	388.2	344.0	299.7	245.7	196.5	142.5	113.0	113.0
60°	11350.4	4672.8	388.2	339.0	294.8	255.5	201.5	142.5	98.3	73.7	68.8
62.5°	10534.8	3591.8	339.0	289.9	255.5	211.3	157.2	103.2	59.0	39.3	39.3
65°	9045.9	2515.8	285.0	240.8	211.3	172.0	117.9	63.9	34.4	14.7	14.7
67.5°	6874.1	1557.6	235.9	201.5	181.8	137.6	83.5	39.3	14.7	4.9	0.0
70°	3945.6	810.7	186.7	162.1	142.5	103.2	59.0	19.7	9.8	0.0	0.0
71°	2756.5	599.5	167.1	142.5	127.8	93.4	49.1	14.7	4.9	0.0	0.0
72.5°	1380.7	398.0	142.5	117.9	103.2	73.7	39.3	14.7	4.9	0.0	0.0
75°	491.4	255.5	98.3	78.6	73.7	54.0	24.6	9.8	4.9	0.0	0.0
77.5°	339.0	206.4	68.8	49.1	49.1	34.4	14.7	4.9	4.9	0.0	0.0
80°	309.6	113.0	44.2	29.5	24.6	19.7	9.8	4.9	0.0	0.0	0.0
82.5°	309.6	83.5	24.6	19.7	14.7	9.8	4.9	0.0	0.0	0.0	0.0
85°	216.2	44.2	14.7	14.7	9.8	4.9	0.0	0.0	0.0	0.0	0.0
87.5°	34.4	14.7	9.8	4.9	4.9	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)