

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: P484843

Luminaire Tested: **IFLD-S-SA6D-750-U-SL4-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484843  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-750-U-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

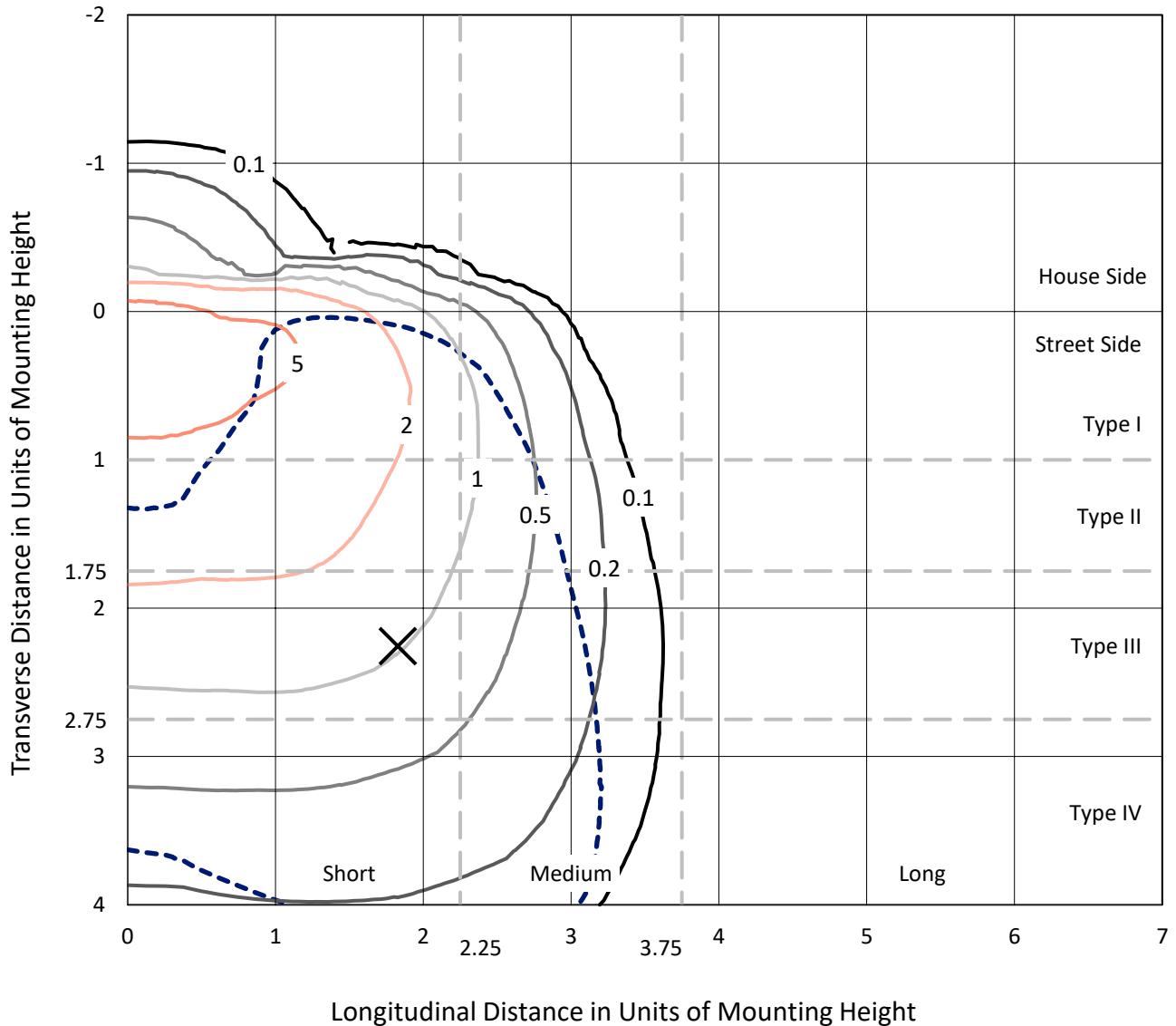
Lumens per Lamp: N/A  
Luminaire Lumens: 38636.6 lumens  
Efficiency: N/A  
Efficacy: 104.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 368.2  
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-S-SA6D-750-U-SL4-HSS

### Iso-Footcandle Lines of Horizontal Illumination

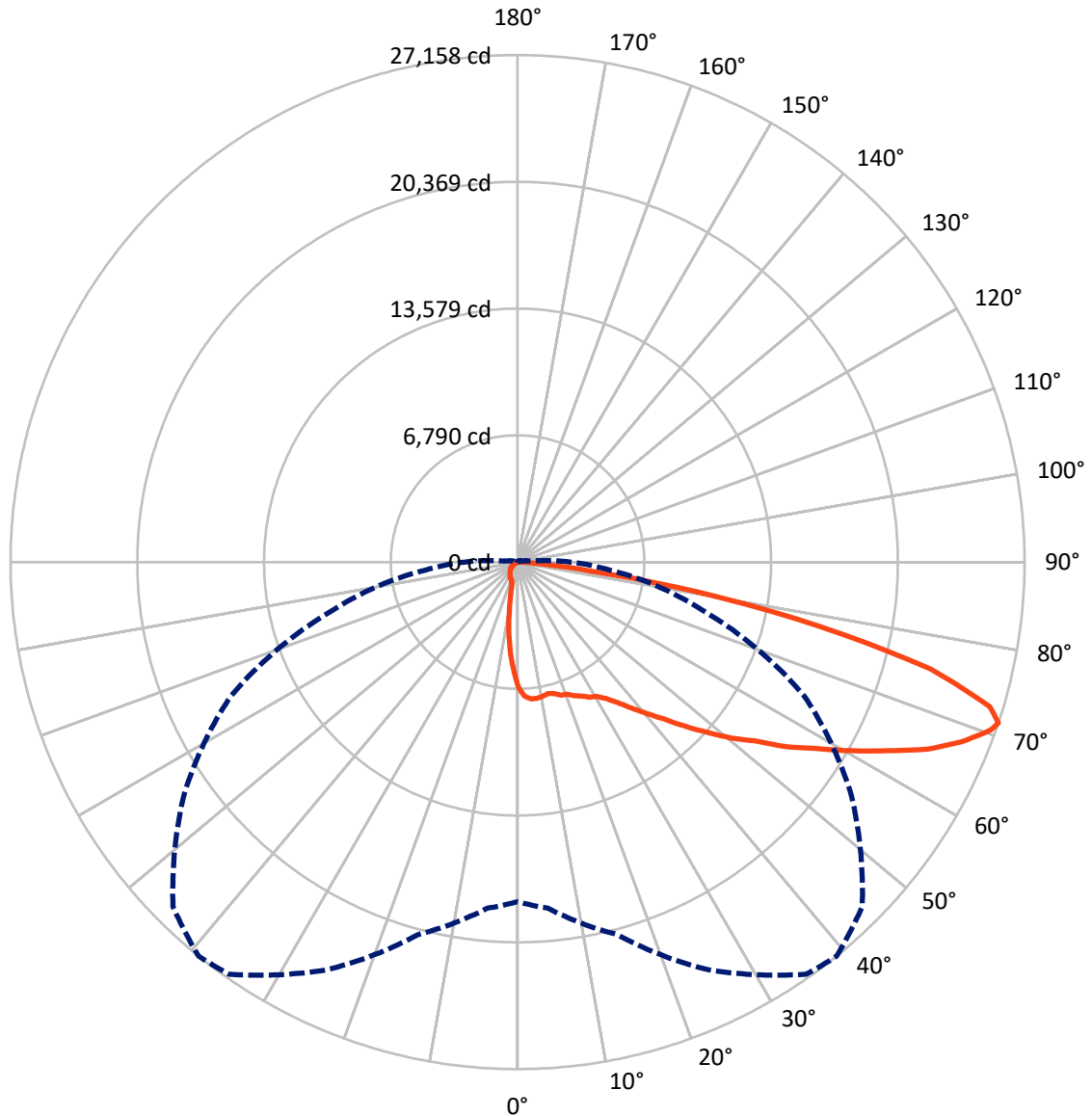
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.1 fc  
 Type IV - Short - N/A

REPORT NUMBER: P484843  
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### Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: IFLD-S-SA6D-750-U-SL4-HSS

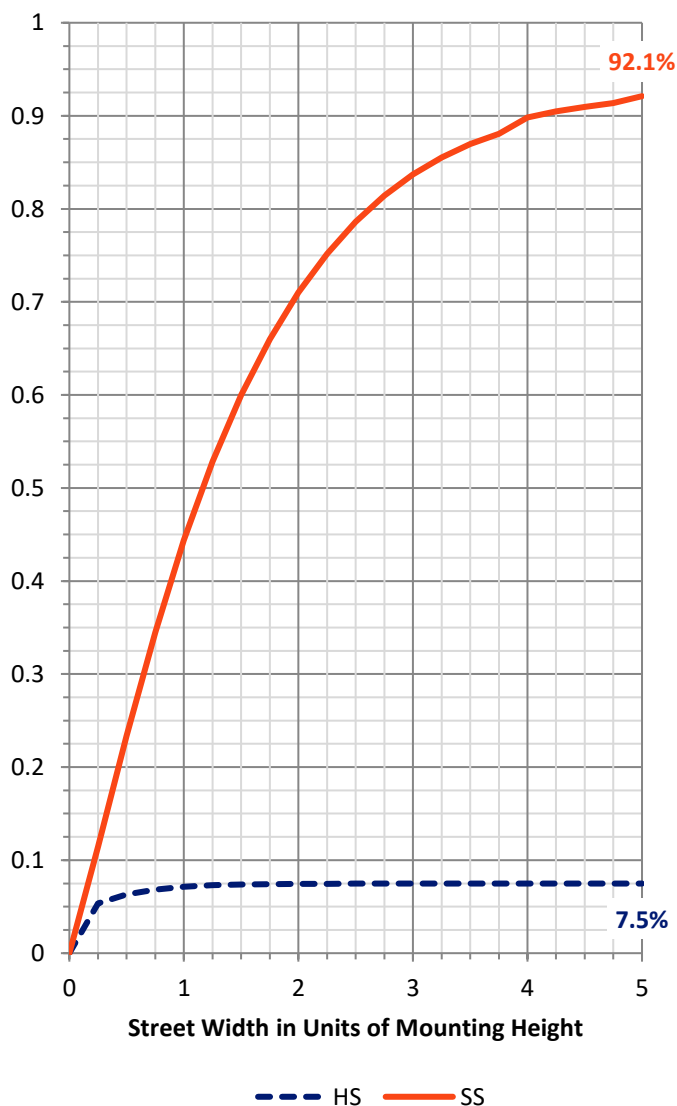
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2908.7	0.0	2908.7
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	35727.9	0.0	35727.9
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	38636.6	0.0	38636.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	562.3	1.5
10°-20°	1383.9	3.6
20°-30°	2221.6	5.8
30°-40°	3400.8	8.8
40°-50°	5458.8	14.1
50°-60°	8018.1	20.8
60°-70°	10098.5	26.1
70°-80°	6739.5	17.4
80°-90°	753.2	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°	38636.6	100.0
0°-180°	38636.6	100.0

**Coefficient of Utilization**



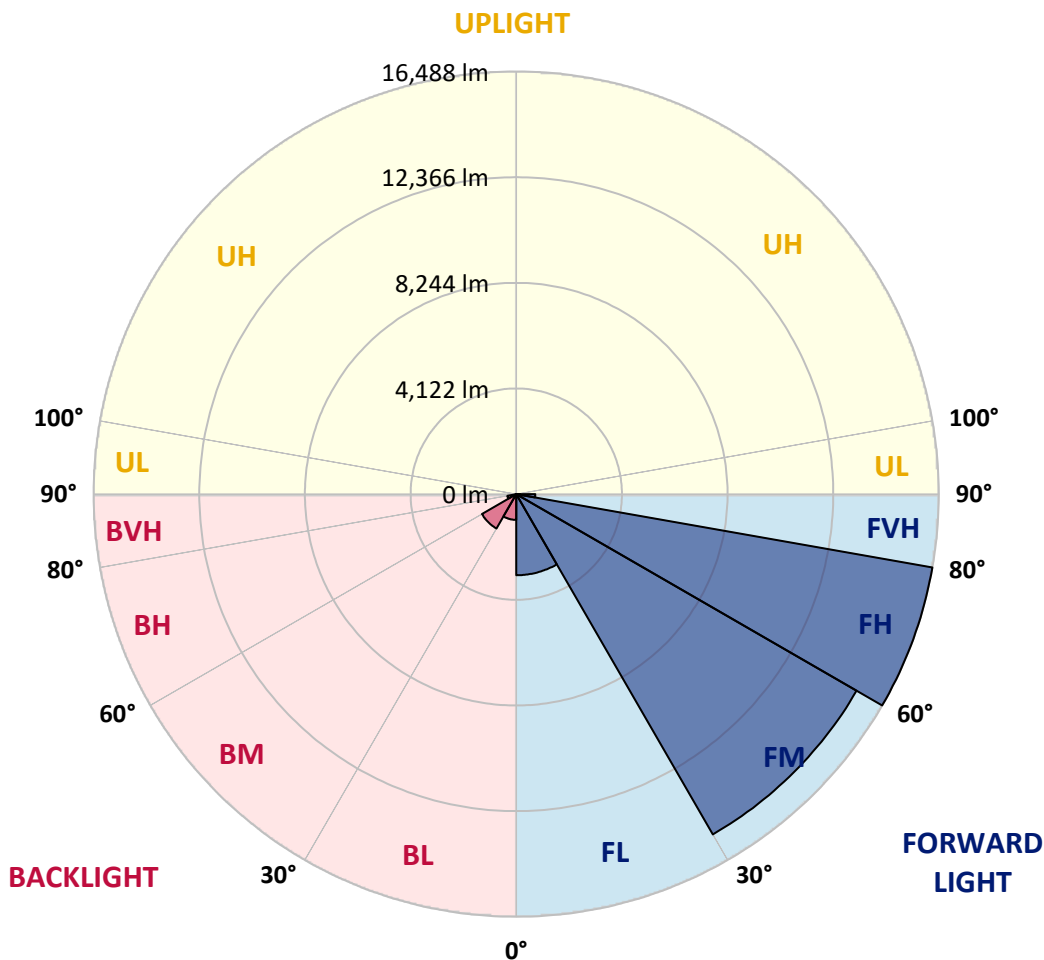
REPORT NUMBER: P484843  
 CATALOG NUMBER: IFLD-S-SA6D-750-U-SL4-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3163.5	8.2			
FM (30°-60°)	15331.6	39.7			
FH (60°-80°)	16487.9	42.7			G5
FVH (80°-90°)	744.9	1.9			G4/750
BL (0°-30°)	1004.2	2.6	B3/2500		
BM (30°-60°)	1546.1	4.0	B2/2500		
BH (60°-80°)	350.1	0.9	B1/500		G1/500
BVH (80°-90°)	8.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6724.9	6724.9	6724.9	6724.9	6724.9	6724.9	6724.9	6724.9	6724.9	6724.9	6724.9
2.5°	7246.9	7317.9	7246.9	7216.5	7186.1	7191.2	7110.1	7125.3	7029.0	6902.3	6801.0
5°	7475.0	7571.3	7495.2	7459.8	7454.7	7358.4	7317.9	7221.6	7105.0	6907.4	6785.8
7.5°	7454.7	7434.4	7469.9	7439.5	7373.6	7373.6	7328.0	7191.2	7074.6	6851.6	6643.9
10°	7302.7	7363.5	7333.1	7297.6	7312.8	7317.9	7231.7	7135.4	7100.0	6877.0	6537.4
12.5°	7287.5	7186.1	7297.6	7302.7	7236.8	7231.7	7221.6	7196.2	7084.8	6882.0	6562.8
15°	7236.8	7196.2	7307.7	7312.8	7328.0	7312.8	7328.0	7307.7	7196.2	7079.7	6674.3
17.5°	7277.3	7231.7	7388.8	7464.8	7429.4	7500.3	7475.0	7383.8	7287.5	7150.6	6780.7
20°	7287.5	7353.3	7525.7	7556.1	7667.6	7551.0	7545.9	7449.6	7388.8	7241.9	6846.6
22.5°	7475.0	7505.4	7718.2	7784.1	7789.2	7774.0	7647.3	7535.8	7510.4	7328.0	6861.8
25°	7758.8	7865.2	7961.5	8002.0	8017.2	7946.3	7814.5	7672.6	7611.8	7495.2	7018.9
27.5°	8260.5	8194.6	8280.8	8341.6	8169.3	8194.6	8027.4	7905.7	7819.6	7718.2	7201.3
30°	8706.4	8645.6	8650.7	8640.6	8493.6	8356.8	8311.2	8098.3	7991.9	8032.4	7485.1
32.5°	9106.8	8975.0	9086.5	9035.9	8762.2	8721.6	8686.2	8417.6	8437.9	8625.4	7910.8
35°	9476.7	9431.1	9522.4	9431.1	9248.7	9238.6	9203.1	8970.0	9081.5	9350.1	8640.6
37.5°	9816.3	9831.5	9943.0	9897.4	9912.6	9922.7	9902.4	9654.1	9973.4	10576.5	9492.0
40°	10130.5	10110.2	10383.9	10525.8	10556.2	10667.7	10667.7	10606.9	11098.4	11777.5	10672.7
42.5°	10465.0	10515.6	10870.4	11108.6	11397.4	11493.7	11625.5	11655.9	12416.1	13191.4	11878.9
45°	11012.3	10926.1	11377.2	11939.7	12193.1	12532.6	12735.3	12907.6	13824.9	14889.1	13085.0
47.5°	11706.6	11534.3	11929.6	12745.5	13333.3	13612.1	13976.9	14205.0	15102.0	16201.7	14225.3
50°	12476.9	12299.5	12492.1	13617.1	14301.3	14808.1	15274.3	15563.2	16647.7	17671.3	15056.4
52.5°	13348.5	13186.4	13216.8	14524.3	15532.7	15902.7	16515.9	16946.7	18026.1	18558.2	15350.3
55°	14275.9	14235.4	14139.1	15411.1	16612.2	17443.3	17813.2	18330.2	19440.0	19039.6	15669.6
57.5°	15208.4	15081.7	15218.5	16586.8	18345.4	18842.0	19353.8	19663.0	20225.5	19460.3	15547.9
60°	16085.1	16095.3	16287.8	17863.9	19820.1	20524.5	20985.7	20798.2	21031.3	19642.7	15269.2
62.5°	16825.0	16804.8	17291.3	19298.1	21771.2	22247.6	22592.2	21756.0	21406.3	19820.1	14782.7
65°	17488.9	17717.0	18482.2	21005.9	23605.7	24153.0	23945.3	22663.1	21771.2	19298.1	13414.4
67.5°	17990.6	18330.2	19657.9	22612.4	25288.2	25673.4	25384.5	23352.3	21340.4	17250.7	10926.1
70°	18284.5	18629.2	20499.2	23950.3	26631.2	26909.9	26230.8	22820.2	18826.8	12492.1	6816.2
71°	18193.3	18614.0	20661.3	24092.2	26950.5	27158.2	26104.1	21837.1	16931.5	10459.9	4971.5
72.5°	17367.3	17762.6	19987.3	23990.9	26565.3	26438.6	25115.9	19475.5	13328.3	6669.2	2569.4
75°	12760.7	13186.4	17154.4	20752.6	23712.1	22840.5	20326.9	13667.8	6953.0	2042.3	750.0
77.5°	6355.0	6425.9	10647.4	15066.5	17392.6	16526.0	13622.2	7621.9	2599.8	603.1	375.0
80°	2929.2	2949.4	3993.4	7804.4	10515.6	9897.4	7632.1	3760.3	1175.7	319.3	293.9
82.5°	1996.7	2027.1	2407.2	3233.2	4566.1	3851.5	3091.3	2407.2	674.0	192.6	288.9
85°	364.9	334.5	1348.0	1712.9	1763.6	1196.0	1069.3	2082.9	253.4	111.5	253.4
87.5°	0.0	5.1	187.5	699.4	628.4	278.7	364.9	506.8	25.3	35.5	45.6
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°	6724.9	6724.9	6724.9	6724.9	6724.9	6724.9	6724.9	6724.9	6724.9	6724.9	6724.9
2.5°	6714.8	6659.1	6471.6	6263.8	6076.3	5929.3	5741.8	5655.6	5518.8	5442.8	5437.7
5°	6618.5	6466.5	6142.1	5792.5	5402.3	5077.9	4718.1	4515.4	4282.3	4211.3	4196.1
7.5°	6456.4	6238.4	5762.1	5270.5	4672.5	4099.8	3658.9	3187.6	2898.8	2777.1	2731.5
10°	6355.0	6091.5	5442.8	4708.0	3871.8	3066.0	2447.7	1946.0	1682.5	1555.8	1525.4
12.5°	6355.0	6071.2	5184.3	4170.8	3060.9	2098.1	1515.3	1226.4	1140.3	1109.8	1109.8
15°	6339.8	6030.7	4936.0	3618.4	2265.3	1408.8	1130.1	1069.3	1059.2	1054.1	1049.0
17.5°	6415.8	5959.7	4682.6	3025.5	1601.4	1109.8	1038.9	1028.8	1018.6	1018.6	1008.5
20°	6471.6	5919.2	4378.6	2397.1	1196.0	1028.8	998.4	983.1	978.1	973.0	983.1
22.5°	6425.9	5858.4	4003.5	1794.0	1044.0	978.1	957.8	942.6	932.5	932.5	937.5
25°	6512.1	5802.6	3628.5	1353.1	978.1	932.5	912.2	902.1	897.0	891.9	881.8
27.5°	6628.7	5827.9	3182.6	1089.6	922.3	886.9	866.6	856.5	851.4	841.3	851.4
30°	6770.6	5822.9	2691.0	952.7	871.7	836.2	815.9	810.8	800.7	795.6	800.7
32.5°	7013.8	5954.6	2184.2	881.8	815.9	785.5	765.2	760.2	755.1	750.0	745.0
35°	7535.8	6116.8	1707.8	826.0	765.2	729.8	714.6	704.4	699.4	694.3	689.2
37.5°	8179.4	6476.6	1302.4	775.4	714.6	679.1	663.9	658.8	638.5	633.5	628.4
40°	8985.2	6861.8	1003.4	719.6	668.9	633.5	618.3	603.1	577.7	567.6	557.5
42.5°	9988.6	7236.8	826.0	668.9	618.3	592.9	567.6	542.3	522.0	501.7	491.6
45°	10992.0	7672.6	724.7	623.3	577.7	547.3	527.0	491.6	456.1	425.7	420.6
47.5°	11828.2	7829.7	663.9	572.7	537.2	511.8	481.4	435.8	385.2	354.7	349.7
50°	12451.5	7738.5	603.1	522.0	491.6	466.2	425.7	369.9	319.3	288.9	278.7
52.5°	12573.2	7338.1	547.3	481.4	446.0	415.6	369.9	309.1	253.4	223.0	217.9
55°	12487.0	6674.3	501.7	446.0	405.4	359.8	309.1	248.3	197.6	167.2	162.2
57.5°	12309.6	5888.8	451.0	400.4	354.7	309.1	253.4	202.7	147.0	116.6	116.6
60°	11706.6	4819.5	400.4	349.7	304.1	263.5	207.8	147.0	101.4	76.0	70.9
62.5°	10865.3	3704.5	349.7	299.0	263.5	217.9	162.2	106.4	60.8	40.5	40.5
65°	9329.8	2594.7	293.9	248.3	217.9	177.4	121.6	65.9	35.5	15.2	15.2
67.5°	7089.8	1606.5	243.3	207.8	187.5	141.9	86.2	40.5	15.2	5.1	0.0
70°	4069.4	836.2	192.6	167.2	147.0	106.4	60.8	20.3	10.1	0.0	0.0
71°	2843.0	618.3	172.3	147.0	131.8	96.3	50.7	15.2	5.1	0.0	0.0
72.5°	1424.0	410.5	147.0	121.6	106.4	76.0	40.5	15.2	5.1	0.0	0.0
75°	506.8	263.5	101.4	81.1	76.0	55.7	25.3	10.1	5.1	0.0	0.0
77.5°	349.7	212.8	70.9	50.7	50.7	35.5	15.2	5.1	5.1	0.0	0.0
80°	319.3	116.6	45.6	30.4	25.3	20.3	10.1	5.1	0.0	0.0	0.0
82.5°	319.3	86.2	25.3	20.3	15.2	10.1	5.1	0.0	0.0	0.0	0.0
85°	223.0	45.6	15.2	15.2	10.1	5.1	0.0	0.0	0.0	0.0	0.0
87.5°	35.5	15.2	10.1	5.1	5.1	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)