

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: P484960

Luminaire Tested: **IFLD-S-SA6D-830-U-SL4-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484960  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-830-U-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

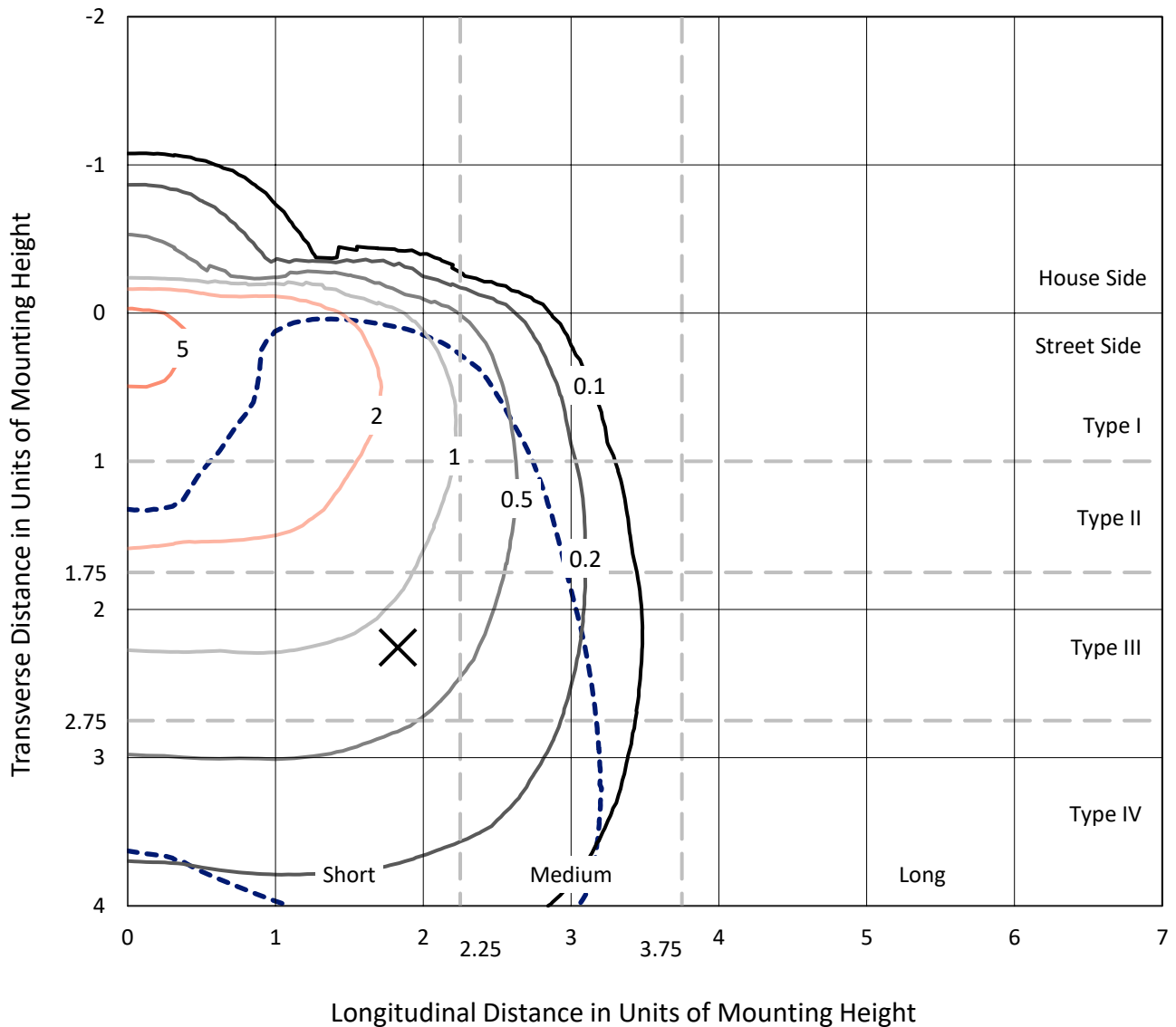
Lumens per Lamp: N/A  
Luminaire Lumens: 30013.3 lumens  
Efficiency: N/A  
Efficacy: 81.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

Input Watts (W): 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

REPORT NUMBER: P484960  
 CATALOG NUMBER: IFLD-S-SA6D-830-U-SL4-HSS

### Iso-Footcandle Lines of Horizontal Illumination

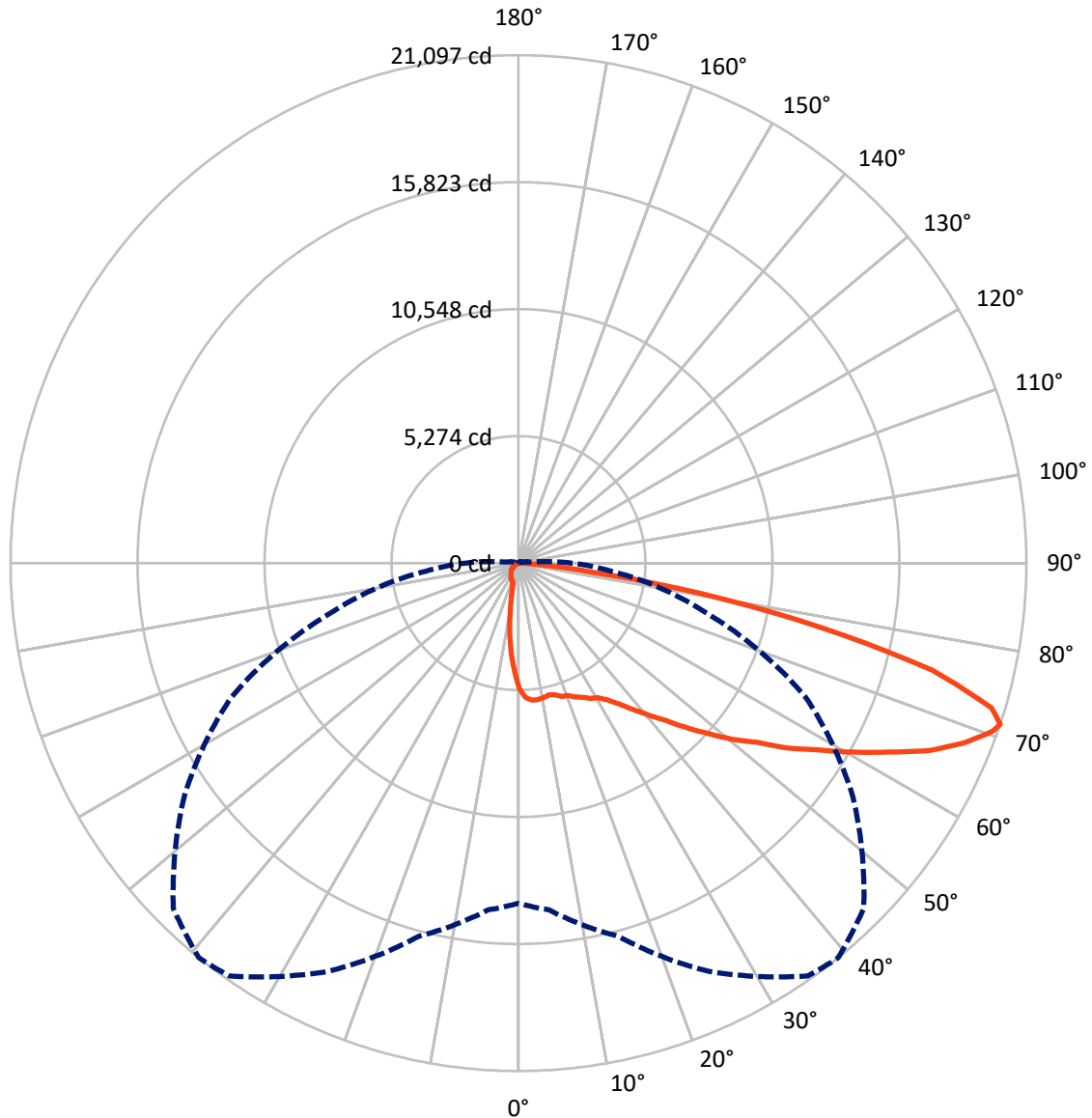
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 fc  
 Type IV - Short - N/A

REPORT NUMBER: P484960  
CATALOG NUMBER: IFLD-S-SA6D-830-U-SL4-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P484960  
 CATALOG NUMBER: IFLD-S-SA6D-830-U-SL4-HSS

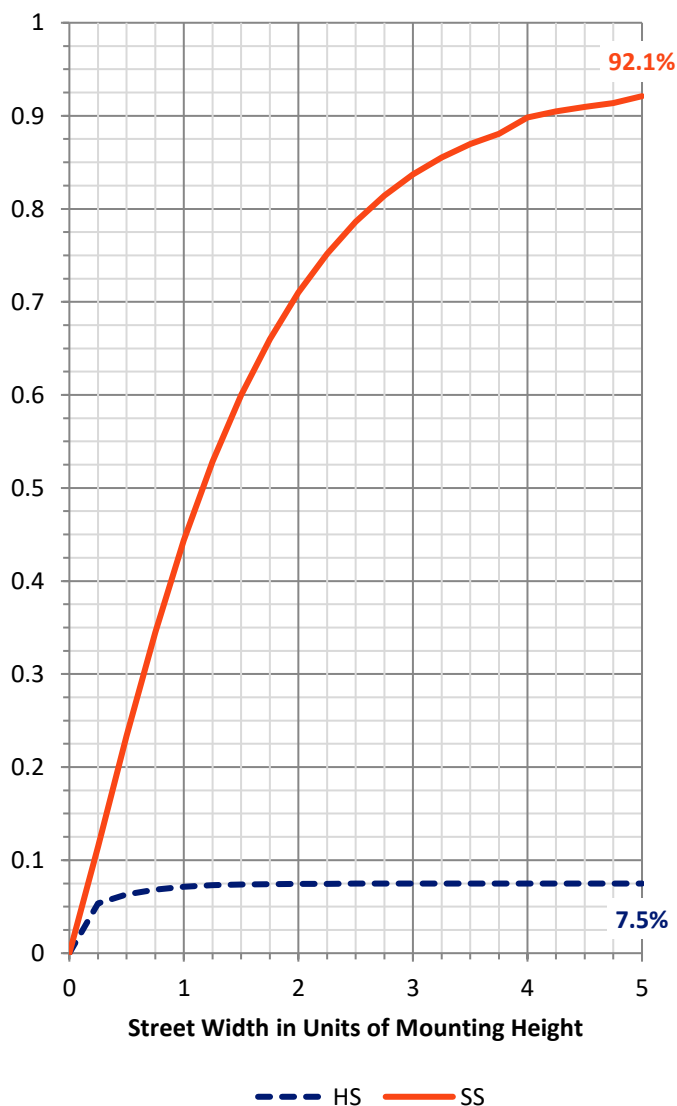
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2259.5	0.0	2259.5
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	27753.8	0.0	27753.8
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	30013.3	0.0	30013.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	436.8	1.5
10°-20°	1075.0	3.6
20°-30°	1725.8	5.8
30°-40°	2641.7	8.8
40°-50°	4240.5	14.1
50°-60°	6228.5	20.8
60°-70°	7844.6	26.1
70°-80°	5235.3	17.4
80°-90°	585.1	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°	30013.3	100.0
0°-180°	30013.3	100.0

**Coefficient of Utilization**



REPORT NUMBER: P484960

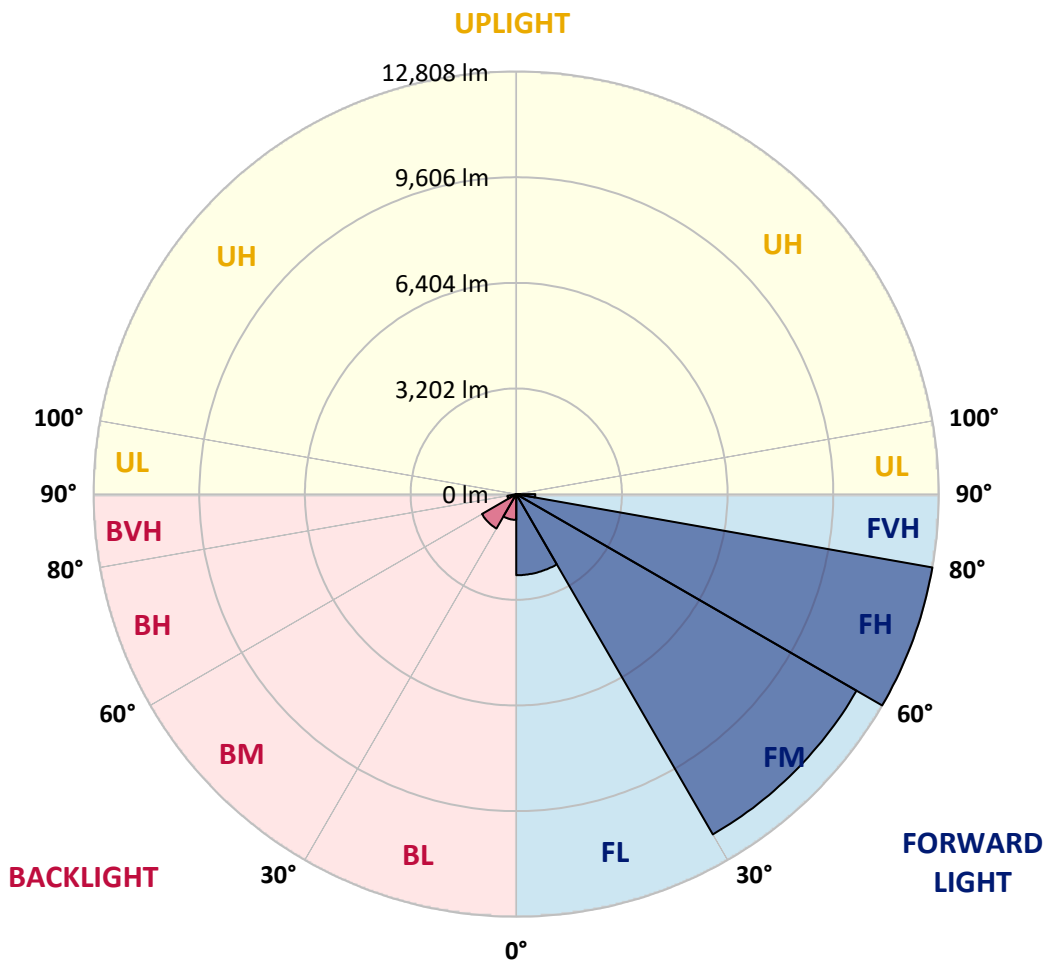
CATALOG NUMBER: IFLD-S-SA6D-830-U-SL4-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2457.5	8.2			
FM (30°-60°)	11909.7	39.7			
FH (60°-80°)	12808.0	42.7			G5
FVH (80°-90°)	578.6	1.9			G4/750
BL (0°-30°)	780.1	2.6	B2/1000		
BM (30°-60°)	1201.0	4.0	B2/2500		
BH (60°-80°)	272.0	0.9	B1/500		G1/500
BVH (80°-90°)	6.4	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





REPORT NUMBER: P484960

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5224.0	5224.0	5224.0	5224.0	5224.0	5224.0	5224.0	5224.0	5224.0	5224.0	5224.0
2.5°	5629.5	5684.6	5629.5	5605.9	5582.3	5586.2	5523.2	5535.0	5460.2	5361.8	5283.1
5°	5806.6	5881.4	5822.4	5794.8	5790.9	5716.1	5684.6	5609.8	5519.3	5365.7	5271.3
7.5°	5790.9	5775.1	5802.7	5779.1	5727.9	5727.9	5692.5	5586.2	5495.6	5322.4	5161.0
10°	5672.8	5720.0	5696.4	5668.9	5680.7	5684.6	5617.7	5542.9	5515.3	5342.1	5078.4
12.5°	5661.0	5582.3	5668.9	5672.8	5621.6	5617.7	5609.8	5590.1	5503.5	5346.0	5098.0
15°	5621.6	5590.1	5676.7	5680.7	5692.5	5680.7	5692.5	5676.7	5590.1	5499.6	5184.6
17.5°	5653.1	5617.7	5739.7	5798.8	5771.2	5826.3	5806.6	5735.8	5661.0	5554.7	5267.3
20°	5661.0	5712.2	5846.0	5869.6	5956.2	5865.7	5861.8	5787.0	5739.7	5625.6	5318.5
22.5°	5806.6	5830.3	5995.6	6046.8	6050.7	6038.9	5940.5	5853.9	5834.2	5692.5	5330.3
25°	6027.1	6109.8	6184.6	6216.1	6227.9	6172.8	6070.4	5960.2	5912.9	5822.4	5452.3
27.5°	6416.8	6365.7	6432.6	6479.8	6346.0	6365.7	6235.7	6141.3	6074.3	5995.6	5594.1
30°	6763.3	6716.0	6720.0	6712.1	6597.9	6491.6	6456.2	6290.9	6208.2	6239.7	5814.5
32.5°	7074.3	6971.9	7058.5	7019.1	6806.6	6775.1	6747.5	6538.9	6554.6	6700.3	6145.2
35°	7361.6	7326.2	7397.1	7326.2	7184.5	7176.6	7149.1	6968.0	7054.6	7263.2	6712.1
37.5°	7625.4	7637.2	7723.8	7688.4	7700.2	7708.1	7692.3	7499.4	7747.4	8215.9	7373.5
40°	7869.5	7853.7	8066.3	8176.5	8200.2	8286.8	8286.8	8239.5	8621.4	9148.9	8290.7
42.5°	8129.3	8168.7	8444.2	8629.3	8853.7	8928.5	9030.8	9054.4	9644.9	10247.2	9227.6
45°	8554.5	8487.5	8837.9	9274.9	9471.7	9735.5	9892.9	10026.8	10739.3	11566.0	10164.6
47.5°	9093.8	8959.9	9267.0	9900.8	10357.5	10574.0	10857.4	11034.6	11731.4	12585.7	11050.3
50°	9692.2	9554.4	9704.0	10577.9	11109.4	11503.1	11865.2	12089.6	12932.1	13727.3	11696.0
52.5°	10369.3	10243.3	10266.9	11282.6	12066.0	12353.4	12829.7	13164.3	14002.9	14416.2	11924.3
55°	11089.7	11058.2	10983.4	11971.5	12904.5	13550.1	13837.5	14239.1	15101.2	14790.2	12172.3
57.5°	11814.1	11715.6	11821.9	12884.8	14250.9	14636.7	15034.3	15274.4	15711.4	15117.0	12077.8
60°	12495.1	12503.0	12652.6	13876.9	15396.5	15943.7	16301.9	16156.2	16337.3	15258.7	11861.3
62.5°	13069.9	13054.1	13432.0	14991.0	16912.1	17282.1	17549.8	16900.3	16628.6	15396.5	11483.4
65°	13585.6	13762.7	14357.2	16317.6	18337.2	18762.3	18600.9	17605.0	16912.1	14991.0	10420.5
67.5°	13975.3	14239.1	15270.5	17565.6	19644.2	19943.4	19719.0	18140.3	16577.5	13400.6	8487.5
70°	14203.6	14471.3	15924.0	18604.9	20687.4	20903.9	20376.4	17727.0	14624.9	9704.0	5294.9
71°	14132.8	14459.5	16050.0	18715.1	20935.4	21096.8	20278.0	16963.3	13152.5	8125.4	3861.9
72.5°	13491.1	13798.2	15526.4	18636.4	20636.2	20537.8	19510.3	15128.8	10353.5	5180.7	1995.9
75°	9912.6	10243.3	13325.8	16120.8	18419.9	17742.7	15790.1	10617.3	5401.2	1586.5	582.6
77.5°	4936.6	4991.7	8271.0	11703.8	13510.8	12837.6	10581.9	5920.8	2019.5	468.5	291.3
80°	2275.4	2291.2	3102.1	6062.5	8168.7	7688.4	5928.7	2921.0	913.3	248.0	228.3
82.5°	1551.1	1574.7	1869.9	2511.6	3547.0	2991.9	2401.4	1869.9	523.6	149.6	224.4
85°	283.4	259.8	1047.2	1330.6	1370.0	929.1	830.6	1618.0	196.8	86.6	196.8
87.5°	0.0	3.9	145.7	543.3	488.2	216.5	283.4	393.7	19.7	27.6	35.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P484960

CATALOG NUMBER: IFLD-S-SA6D-830-U-SL4-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5224.0	5224.0	5224.0	5224.0	5224.0	5224.0	5224.0	5224.0	5224.0	5224.0	5224.0
2.5°	5216.1	5172.8	5027.2	4865.8	4720.1	4605.9	4460.3	4393.4	4287.1	4228.0	4224.1
5°	5141.3	5023.2	4771.3	4499.7	4196.5	3944.6	3665.1	3507.6	3326.5	3271.4	3259.6
7.5°	5015.4	4846.1	4476.0	4094.2	3629.6	3184.8	2842.3	2476.2	2251.8	2157.3	2121.9
10°	4936.6	4731.9	4228.0	3657.2	3007.6	2381.7	1901.4	1511.7	1307.0	1208.6	1184.9
12.5°	4936.6	4716.2	4027.3	3239.9	2377.8	1629.8	1177.1	952.7	885.8	862.1	862.1
15°	4924.8	4684.7	3834.4	2810.8	1759.7	1094.4	877.9	830.6	822.8	818.8	814.9
17.5°	4983.9	4629.6	3637.5	2350.2	1244.0	862.1	807.0	799.2	791.3	791.3	783.4
20°	5027.2	4598.1	3401.3	1862.1	929.1	799.2	775.5	763.7	759.8	755.8	763.7
22.5°	4991.7	4550.8	3110.0	1393.6	811.0	759.8	744.0	732.2	724.4	724.4	728.3
25°	5058.7	4507.5	2818.7	1051.1	759.8	724.4	708.6	700.7	696.8	692.9	685.0
27.5°	5149.2	4527.2	2472.3	846.4	716.5	688.9	673.2	665.3	661.4	653.5	661.4
30°	5259.4	4523.3	2090.4	740.1	677.1	649.6	633.8	629.9	622.0	618.1	622.0
32.5°	5448.4	4625.6	1696.7	685.0	633.8	610.2	594.4	590.5	586.6	582.6	578.7
35°	5853.9	4751.6	1326.7	641.7	594.4	566.9	555.1	547.2	543.3	539.3	535.4
37.5°	6353.8	5031.1	1011.7	602.3	555.1	527.5	515.7	511.8	496.0	492.1	488.2
40°	6979.8	5330.3	779.5	559.0	519.6	492.1	480.3	468.5	448.8	440.9	433.0
42.5°	7759.2	5621.6	641.7	519.6	480.3	460.6	440.9	421.2	405.5	389.7	381.9
45°	8538.7	5960.2	562.9	484.2	448.8	425.2	409.4	381.9	354.3	330.7	326.7
47.5°	9188.3	6082.2	515.7	444.8	417.3	397.6	374.0	338.6	299.2	275.6	271.6
50°	9672.5	6011.4	468.5	405.5	381.9	362.2	330.7	287.4	248.0	224.4	216.5
52.5°	9767.0	5700.4	425.2	374.0	346.4	322.8	287.4	240.1	196.8	173.2	169.3
55°	9700.0	5184.6	389.7	346.4	314.9	279.5	240.1	192.9	153.5	129.9	126.0
57.5°	9562.3	4574.5	350.4	311.0	275.6	240.1	196.8	157.5	114.2	90.5	90.5
60°	9093.8	3743.8	311.0	271.6	236.2	204.7	161.4	114.2	78.7	59.1	55.1
62.5°	8440.3	2877.7	271.6	232.3	204.7	169.3	126.0	82.7	47.2	31.5	31.5
65°	7247.5	2015.6	228.3	192.9	169.3	137.8	94.5	51.2	27.6	11.8	11.8
67.5°	5507.5	1247.9	189.0	161.4	145.7	110.2	66.9	31.5	11.8	3.9	0.0
70°	3161.2	649.6	149.6	129.9	114.2	82.7	47.2	15.7	7.9	0.0	0.0
71°	2208.5	480.3	133.8	114.2	102.4	74.8	39.4	11.8	3.9	0.0	0.0
72.5°	1106.2	318.9	114.2	94.5	82.7	59.1	31.5	11.8	3.9	0.0	0.0
75°	393.7	204.7	78.7	63.0	59.1	43.3	19.7	7.9	3.9	0.0	0.0
77.5°	271.6	165.3	55.1	39.4	39.4	27.6	11.8	3.9	3.9	0.0	0.0
80°	248.0	90.5	35.4	23.6	19.7	15.7	7.9	3.9	0.0	0.0	0.0
82.5°	248.0	66.9	19.7	15.7	11.8	7.9	3.9	0.0	0.0	0.0	0.0
85°	173.2	35.4	11.8	11.8	7.9	3.9	0.0	0.0	0.0	0.0	0.0
87.5°	27.6	11.8	7.9	3.9	3.9	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)