

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: P482633

Luminaire Tested: **IFLD-L-SA8B-830-U-T3-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482633  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-830-U-T3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens with House Side Shield  
Light Source: (128) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

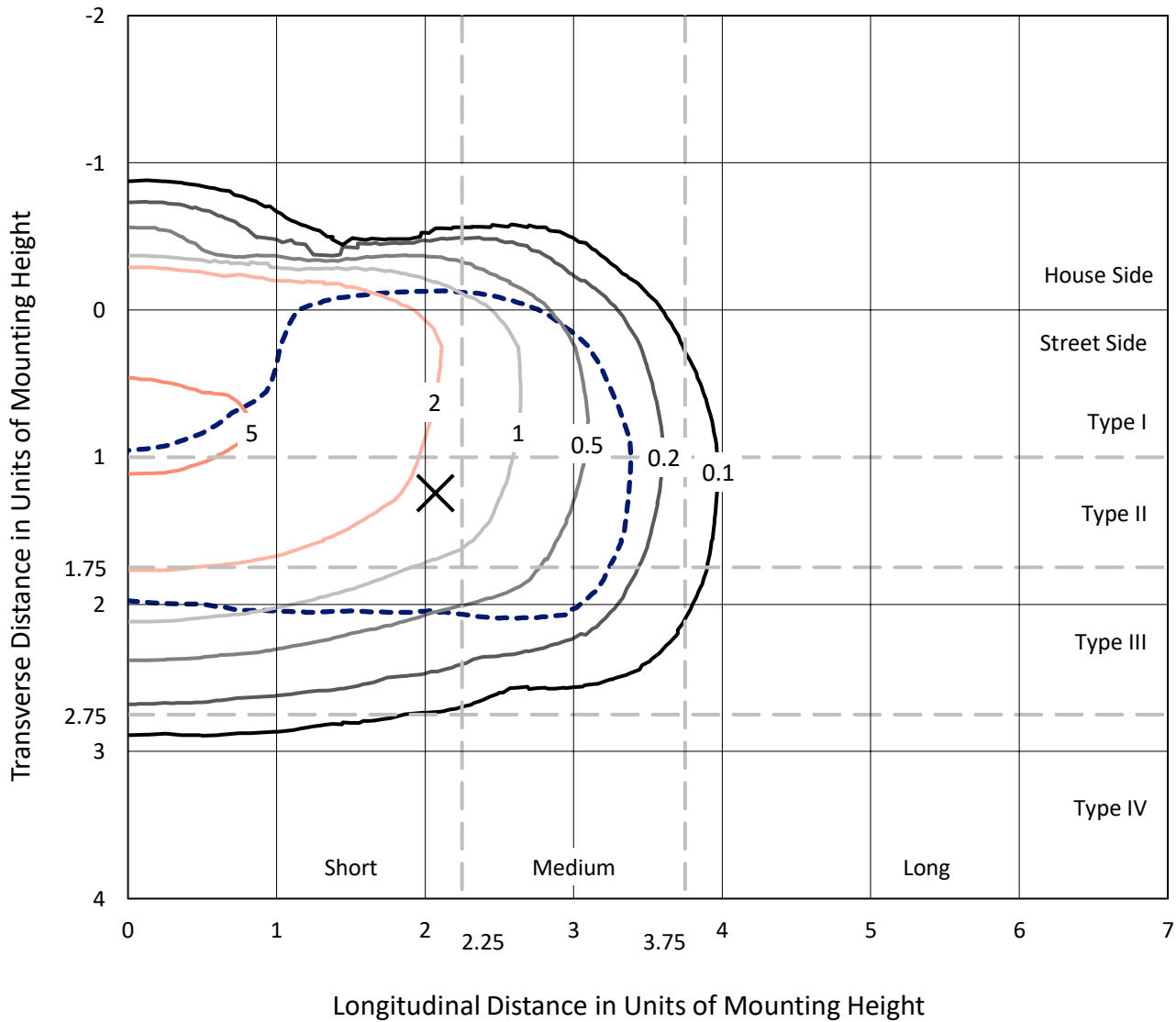
Lumens per Lamp: N/A  
Luminaire Lumens: 23996.4 lumens  
Efficiency: N/A  
Efficacy: 75.0 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 320  
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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### Iso-Footcandle Lines of Horizontal Illumination

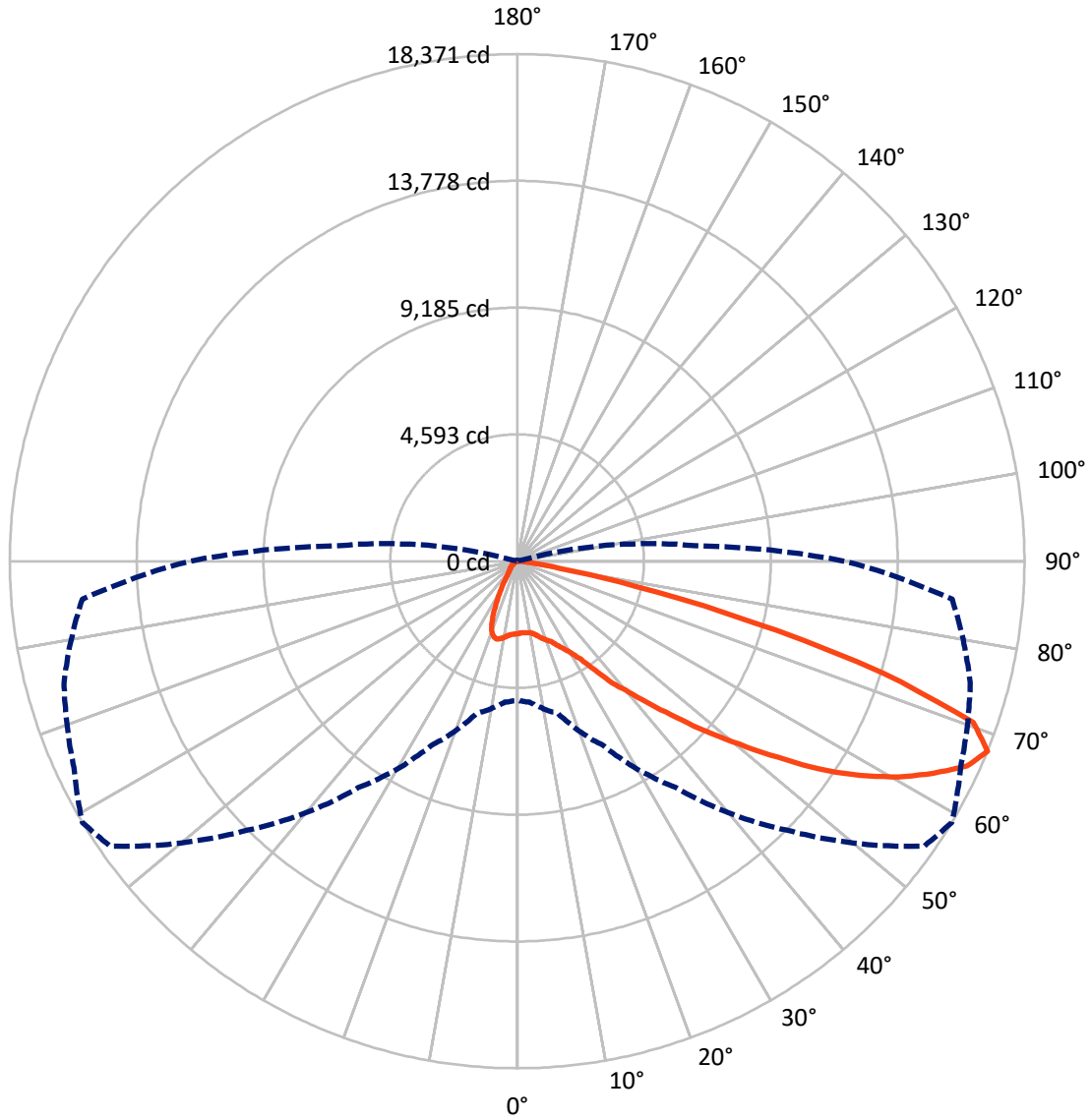
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2818.8	0.0	2818.8
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	21177.7	0.0	21177.7
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	23996.4	0.0	23996.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.0	1.0
10°-20°	722.2	3.0
20°-30°	1262.2	5.3
30°-40°	2222.2	9.3
40°-50°	3928.2	16.4
50°-60°	6219.7	25.9
60°-70°	6899.4	28.8
70°-80°	2393.9	10.0
80°-90°	98.6	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°	23996.4	100.0
0°-180°	23996.4	100.0

**Coefficient of Utilization**

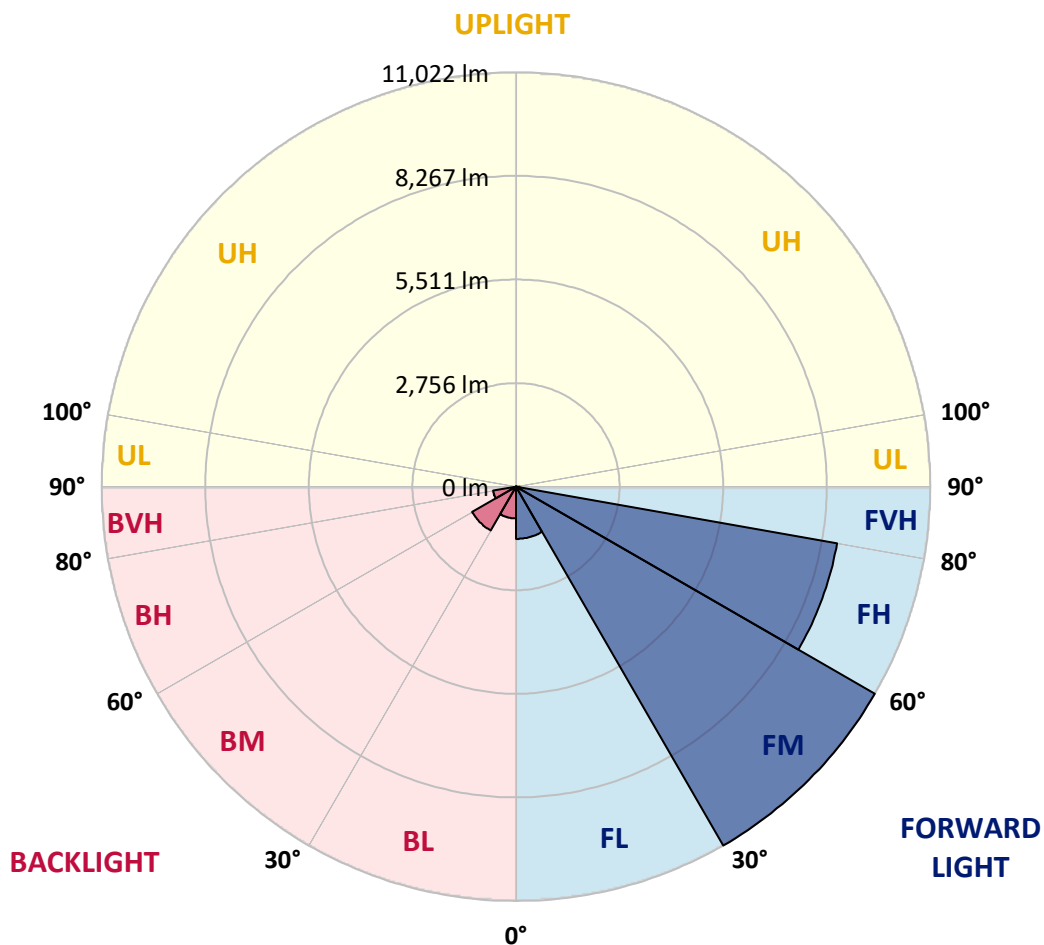


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1389.6	5.8			
FM (30°-60°)	11022.5	45.9			
FH (60°-80°)	8673.4	36.1			G4/12000
FVH (80°-90°)	92.2	0.4			G1/100
BL (0°-30°)	844.8	3.5	B2/1000		
BM (30°-60°)	1347.7	5.6	B2/2500		
BH (60°-80°)	619.9	2.6	B2/1000		G2/1000
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-G4**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2632.0	2632.0	2632.0	2632.0	2632.0	2632.0	2632.0	2632.0	2632.0	2632.0	2632.0
2.5°	2555.7	2519.3	2552.4	2555.7	2559.1	2588.9	2622.0	2598.8	2595.5	2622.0	2645.2
5°	2453.0	2436.4	2476.2	2496.1	2529.2	2555.7	2608.8	2612.1	2615.4	2645.2	2685.0
7.5°	2409.9	2370.1	2416.5	2439.7	2462.9	2525.9	2588.9	2622.0	2668.4	2704.9	2744.7
10°	2323.7	2353.5	2366.8	2406.6	2472.9	2545.8	2622.0	2638.6	2741.4	2771.2	2867.3
12.5°	2353.5	2373.4	2399.9	2409.9	2482.8	2592.2	2695.0	2701.6	2807.7	2936.9	2986.7
15°	2429.8	2416.5	2426.5	2439.7	2525.9	2615.4	2781.1	2811.0	2910.4	3056.3	3178.9
17.5°	2592.2	2569.0	2552.4	2549.1	2569.0	2651.9	2847.4	2936.9	3029.8	3228.7	3291.6
20°	2999.9	2980.0	2913.7	2741.4	2681.7	2714.9	2927.0	3053.0	3182.2	3404.3	3507.1
22.5°	3619.8	3639.7	3483.9	3241.9	2993.3	2864.0	3053.0	3162.4	3367.9	3649.6	3742.4
25°	4352.4	4312.6	4123.7	3841.9	3450.7	3145.8	3255.2	3377.8	3629.7	3861.8	3898.2
27.5°	4925.8	4879.4	4733.6	4392.2	4054.0	3560.1	3520.4	3596.6	3894.9	4103.8	4064.0
30°	5492.7	5509.3	5409.8	5005.4	4587.7	4067.3	3815.4	3848.5	4077.2	4345.7	4256.2
32.5°	6215.3	6175.5	6119.2	5764.5	5270.6	4713.7	4282.8	4229.7	4329.2	4683.9	4577.8
35°	6888.2	6865.0	6788.8	6430.8	5999.9	5393.2	4972.3	4852.9	4829.7	5224.2	5038.6
37.5°	7475.0	7435.2	7319.2	7090.4	6672.8	6162.3	5701.5	5595.4	5592.1	5863.9	5505.9
40°	7968.9	7998.7	7985.4	7733.5	7504.8	7097.1	6391.0	6221.9	6208.7	6354.5	6145.7
42.5°	8608.6	8678.2	8641.8	8592.1	8316.9	8157.8	7358.9	7100.4	6984.4	7282.7	7093.7
45°	9576.6	9603.1	9626.3	9503.6	9228.5	9261.7	8360.0	8051.7	8021.9	8466.1	8041.8
47.5°	10481.5	10411.9	10574.3	10581.0	10567.7	10415.2	9440.7	9211.9	9251.7	9589.8	9152.3
50°	10706.9	10885.9	11333.4	11416.3	11631.8	11771.0	10640.6	10411.9	10478.2	10862.7	10362.2
52.5°	10882.6	11154.4	11601.9	12208.5	12788.6	13120.1	11983.1	11797.5	11794.2	12029.5	11340.1
55°	11190.9	11356.6	11744.5	12579.8	13683.6	14227.3	13600.8	13302.4	13033.9	13199.7	12354.4
57.5°	11161.1	11224.0	11827.3	12858.2	14393.0	15380.8	14930.0	14644.9	14300.2	14204.1	13521.2
60°	10637.3	10786.5	11462.7	12669.3	14830.6	16279.2	16169.8	15878.1	15284.7	15059.3	14416.2
62.5°	9599.8	9798.7	10329.0	12006.3	14194.1	16325.6	17025.0	16915.6	16252.6	15848.2	15583.0
65°	7779.9	7872.7	8482.7	10322.4	12755.5	15612.9	18036.0	17900.1	17290.2	16686.9	16183.0
67.5°	5038.6	5128.1	5714.8	7368.9	10017.4	13773.1	17996.2	18370.8	17711.2	16985.2	15808.5
70°	2380.1	2356.8	2903.8	4093.8	6417.5	10518.0	16779.7	17518.9	16958.7	15397.4	13130.1
72.5°	725.9	788.9	1206.6	1813.2	3294.9	6560.1	13153.3	13846.1	13670.4	12301.4	8764.4
75°	321.5	348.1	474.0	742.5	1335.9	2691.6	8124.7	8741.2	8665.0	7256.2	4001.0
77.5°	205.5	225.4	298.3	424.3	606.6	855.2	3742.4	4342.4	4209.8	2549.1	1047.5
80°	145.9	155.8	212.1	291.7	381.2	351.4	1289.5	1531.5	1468.5	692.8	281.8
82.5°	79.6	86.2	155.8	215.5	255.2	179.0	361.3	450.8	470.7	308.3	135.9
85°	29.8	36.5	96.1	152.5	132.6	82.9	106.1	129.3	169.1	169.1	63.0
87.5°	0.0	3.3	39.8	66.3	33.1	23.2	29.8	36.5	46.4	79.6	23.2
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°	2632.0	2632.0	2632.0	2632.0	2632.0	2632.0	2632.0	2632.0	2632.0	2632.0	2632.0
2.5°	2661.8	2638.6	2648.6	2665.1	2628.7	2648.6	2608.8	2638.6	2648.6	2608.8	2628.7
5°	2695.0	2718.2	2704.9	2678.4	2655.2	2661.8	2651.9	2628.7	2648.6	2655.2	2641.9
7.5°	2791.1	2764.6	2771.2	2741.4	2695.0	2691.6	2628.7	2612.1	2618.7	2625.4	2602.1
10°	2880.6	2897.2	2864.0	2840.8	2764.6	2714.9	2628.7	2535.8	2525.9	2486.1	2519.3
12.5°	3039.7	2999.9	2986.7	2910.4	2834.2	2668.4	2482.8	2340.3	2220.9	2177.8	2134.8
15°	3172.3	3165.7	3142.5	3026.4	2850.8	2549.1	2197.7	1866.3	1637.5	1495.0	1475.1
17.5°	3354.6	3324.8	3281.7	3099.4	2728.1	2237.5	1637.5	1219.9	991.1	901.6	868.5
20°	3493.8	3470.6	3411.0	3082.8	2506.0	1667.4	1014.3	775.7	719.3	702.7	706.1
22.5°	3696.0	3623.1	3510.4	2999.9	2101.6	1110.5	729.3	692.8	682.9	669.6	672.9
25°	3871.7	3805.4	3570.1	2857.4	1498.3	735.9	676.2	656.3	639.8	623.2	619.9
27.5°	4027.5	3944.7	3633.1	2565.7	938.1	633.1	626.5	603.3	570.2	543.6	533.7
30°	4180.0	4083.9	3649.6	2018.7	633.1	573.5	556.9	520.4	477.3	440.9	434.2
32.5°	4435.3	4319.2	3626.4	1442.0	546.9	510.5	474.0	430.9	367.9	338.1	331.5
35°	4833.0	4657.3	3596.6	848.6	490.6	450.8	394.5	338.1	291.7	261.9	255.2
37.5°	5290.5	4985.5	3510.4	566.8	450.8	397.8	324.9	268.5	228.7	205.5	198.9
40°	5970.0	5466.2	3178.9	464.1	401.1	338.1	261.9	212.1	182.3	165.7	159.1
42.5°	6719.2	6016.4	2668.4	417.7	354.7	288.4	208.8	172.4	149.2	132.6	132.6
45°	7617.5	6589.9	2058.5	381.2	314.9	238.7	172.4	139.2	119.3	106.1	99.4
47.5°	8618.6	7110.3	1388.9	344.7	265.2	195.6	142.5	106.1	86.2	76.2	76.2
50°	9513.6	7571.1	885.1	301.7	232.0	162.4	116.0	86.2	69.6	56.4	53.0
52.5°	10325.7	7922.5	609.9	265.2	198.9	132.6	96.1	69.6	53.0	43.1	43.1
55°	11157.7	8101.5	450.8	228.7	172.4	112.7	79.6	63.0	46.4	36.5	33.1
57.5°	11840.6	8177.7	344.7	198.9	145.9	89.5	69.6	53.0	39.8	29.8	26.5
60°	12424.0	8141.2	268.5	165.7	116.0	76.2	59.7	43.1	33.1	23.2	19.9
62.5°	12765.4	7922.5	212.1	142.5	92.8	66.3	49.7	36.5	23.2	16.6	13.3
65°	12772.1	7458.4	165.7	106.1	69.6	56.4	43.1	29.8	16.6	6.6	3.3
67.5°	11857.2	6454.0	132.6	82.9	56.4	43.1	33.1	23.2	6.6	0.0	0.0
70°	9274.9	4882.8	109.4	66.3	46.4	36.5	23.2	13.3	3.3	0.0	0.0
72.5°	5910.4	2923.7	89.5	53.0	39.8	26.5	16.6	9.9	0.0	0.0	0.0
75°	2472.9	901.6	69.6	46.4	29.8	19.9	13.3	3.3	0.0	0.0	0.0
77.5°	636.4	285.1	56.4	39.8	29.8	16.6	9.9	3.3	0.0	0.0	0.0
80°	188.9	106.1	46.4	33.1	23.2	13.3	6.6	3.3	0.0	0.0	0.0
82.5°	86.2	63.0	39.8	29.8	19.9	13.3	6.6	0.0	0.0	0.0	0.0
85°	33.1	19.9	19.9	16.6	16.6	9.9	3.3	0.0	0.0	0.0	0.0
87.5°	13.3	6.6	6.6	6.6	3.3	3.3	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)