

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: P482360

Luminaire Tested: **IFLD-L-SA8B-727-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482360
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-727-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

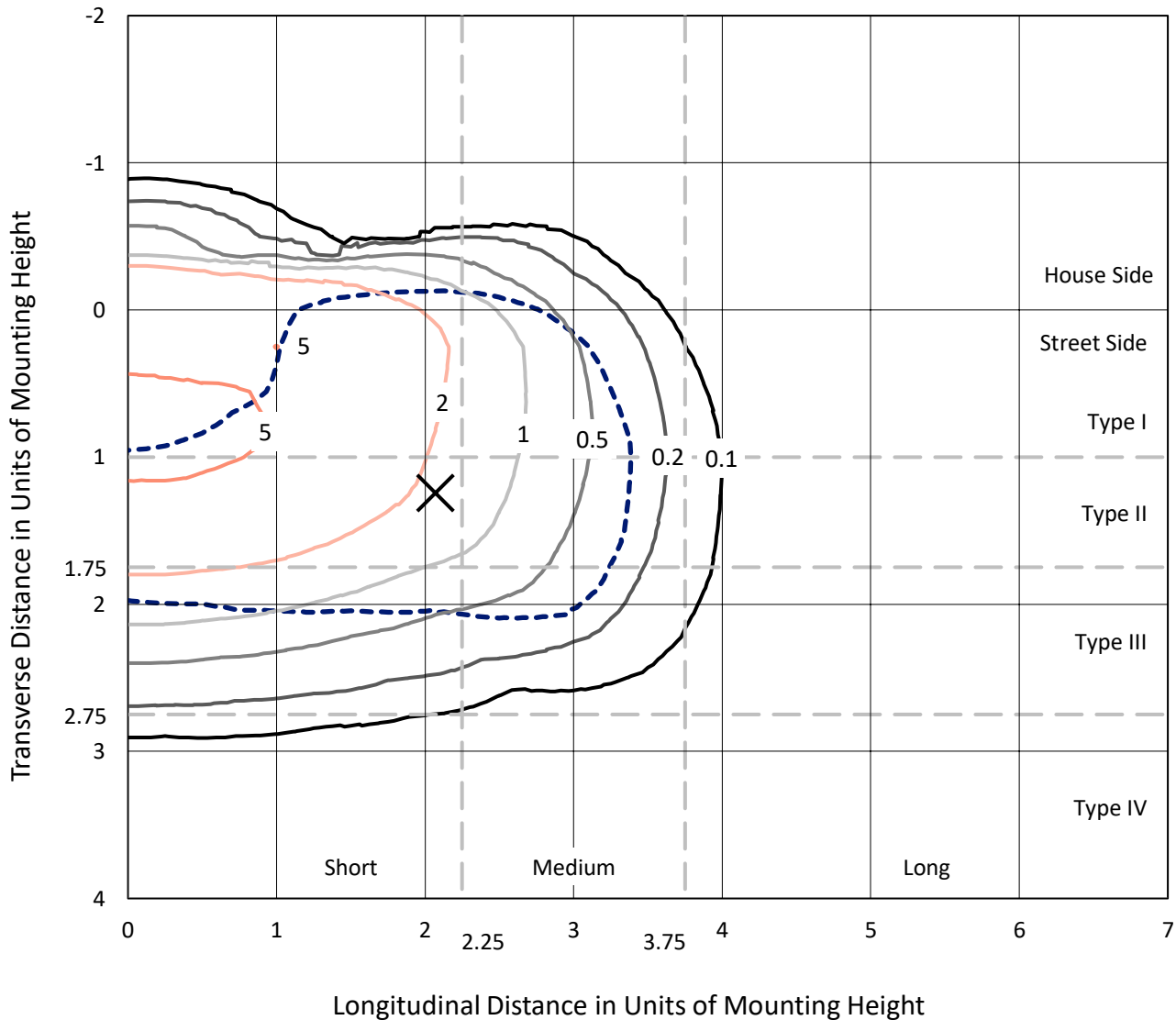
Lumens per Lamp: N/A
Luminaire Lumens: 25255.8 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

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

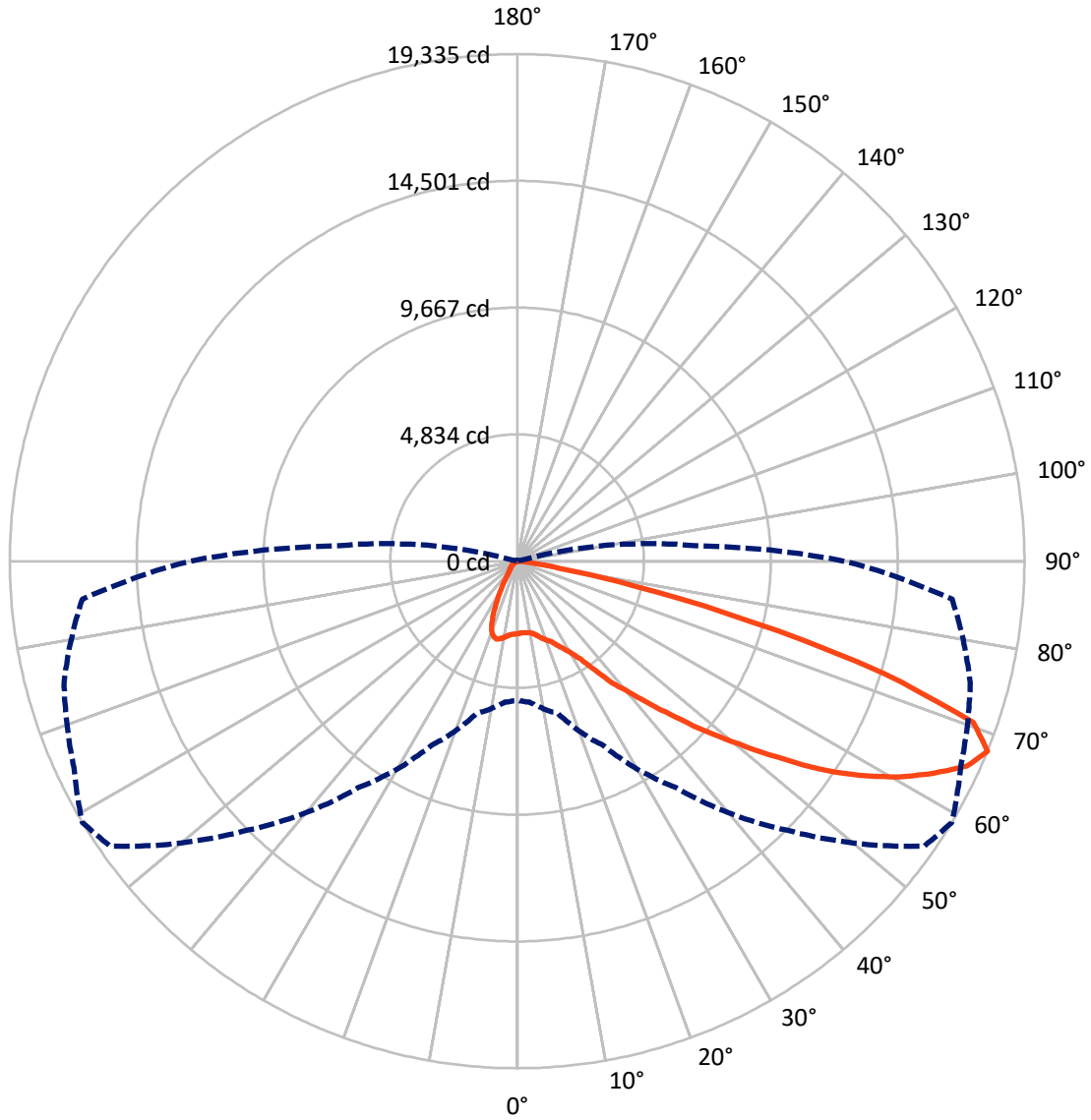
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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
House Side	Lumens	2966.7	0.0	2966.7
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	22289.0	0.0	22289.0
	% Fixture	88.3	0.0	88.3
Total	Lumens	25255.8	0.0	25255.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.1	1.0
10°-20°	760.1	3.0
20°-30°	1328.4	5.3
30°-40°	2338.8	9.3
40°-50°	4134.3	16.4
50°-60°	6546.1	25.9
60°-70°	7261.5	28.8
70°-80°	2519.6	10.0
80°-90°	103.8	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°	25255.8	100.0
0°-180°	25255.8	100.0

Coefficient of Utilization

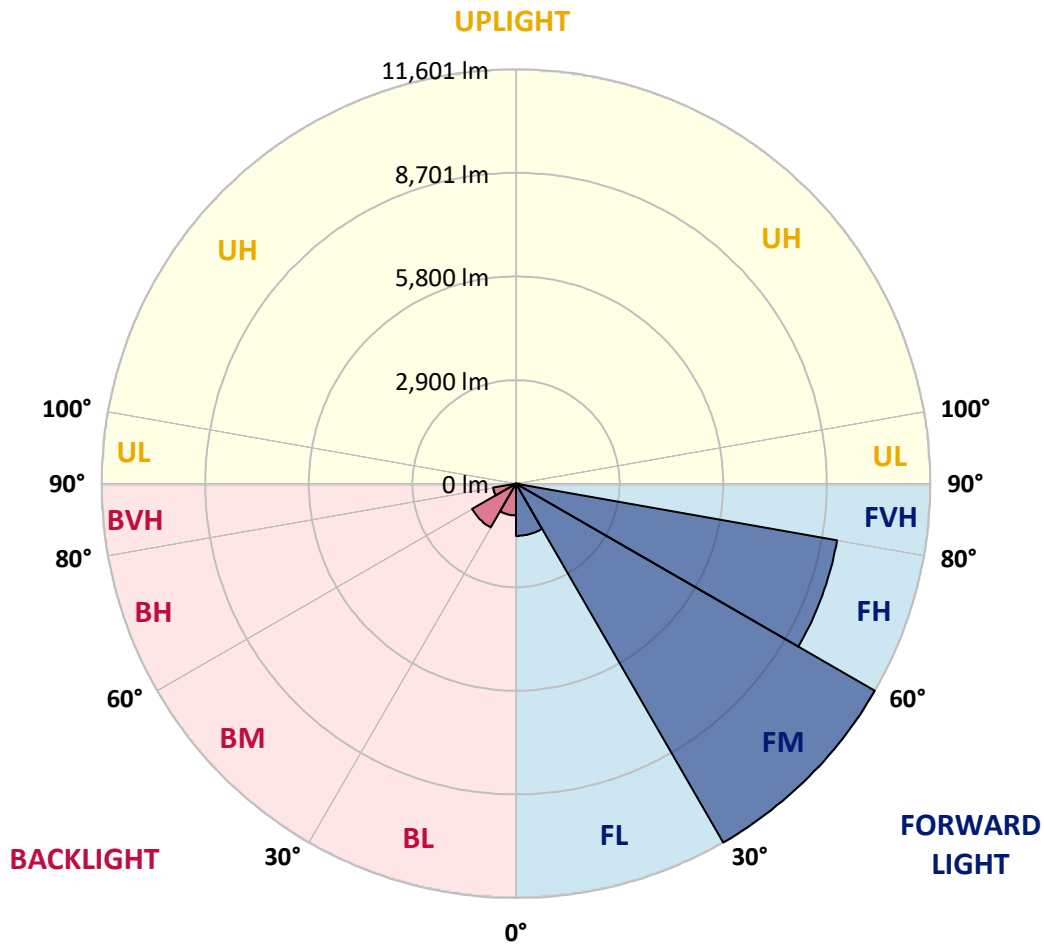


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1462.5	5.8			
FM (30°-60°)	11600.9	45.9			
FH (60°-80°)	9128.6	36.1			G4/12000
FVH (80°-90°)	97.0	0.4			G1/100
BL (0°-30°)	889.1	3.5	B2/1000		
BM (30°-60°)	1418.4	5.6	B2/2500		
BH (60°-80°)	652.4	2.6	B2/1000		G2/1000
BVH (80°-90°)	6.7	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°	2770.1	2770.1	2770.1	2770.1	2770.1	2770.1	2770.1	2770.1	2770.1	2770.1	2770.1
2.5°	2689.9	2651.5	2686.4	2689.9	2693.4	2724.7	2759.6	2735.2	2731.7	2759.6	2784.1
5°	2581.7	2564.3	2606.1	2627.1	2662.0	2689.9	2745.7	2749.2	2752.7	2784.1	2825.9
7.5°	2536.4	2494.5	2543.3	2567.8	2592.2	2658.5	2724.7	2759.6	2808.5	2846.9	2888.7
10°	2445.6	2477.0	2491.0	2532.9	2602.6	2679.4	2759.6	2777.1	2885.2	2916.6	3017.8
12.5°	2477.0	2498.0	2525.9	2536.4	2613.1	2728.2	2836.4	2843.4	2955.0	3091.1	3143.4
15°	2557.3	2543.3	2553.8	2567.8	2658.5	2752.7	2927.1	2958.5	3063.2	3216.7	3345.8
17.5°	2728.2	2703.8	2686.4	2682.9	2703.8	2791.0	2996.9	3091.1	3188.8	3398.1	3464.4
20°	3157.4	3136.4	3066.7	2885.2	2822.4	2857.3	3080.6	3213.2	3349.2	3583.0	3691.1
22.5°	3809.8	3830.7	3666.7	3412.0	3150.4	3014.3	3213.2	3328.3	3544.6	3841.2	3938.9
25°	4580.8	4538.9	4340.1	4043.5	3631.8	3310.9	3426.0	3555.1	3820.2	4064.4	4102.8
27.5°	5184.4	5135.5	4982.0	4622.7	4266.8	3747.0	3705.1	3785.3	4099.3	4319.1	4277.3
30°	5780.9	5798.4	5693.7	5268.1	4828.5	4280.8	4015.6	4050.5	4291.2	4573.8	4479.6
32.5°	6541.5	6499.6	6440.3	6067.0	5547.2	4961.1	4507.5	4451.7	4556.4	4929.7	4818.0
35°	7249.7	7225.3	7145.1	6768.3	6314.7	5676.3	5233.2	5107.6	5083.2	5498.3	5303.0
37.5°	7867.2	7825.4	7703.3	7462.5	7022.9	6485.7	6000.7	5889.1	5885.6	6171.7	5794.9
40°	8387.1	8418.5	8404.5	8139.4	7898.6	7469.5	6726.4	6548.5	6534.5	6688.0	6468.2
42.5°	9060.4	9133.7	9095.3	9043.0	8753.4	8585.9	7745.1	7473.0	7350.9	7664.9	7466.0
45°	10079.1	10107.0	10131.5	10002.4	9712.8	9747.7	8798.7	8474.3	8442.9	8910.4	8463.8
47.5°	11031.6	10958.3	11129.3	11136.2	11122.3	10961.8	9936.1	9695.4	9737.2	10093.1	9632.6
50°	11268.8	11457.2	11928.2	12015.4	12242.2	12388.7	11199.0	10958.3	11028.1	11432.8	10906.0
52.5°	11453.7	11739.8	12210.8	12849.2	13459.8	13808.7	12612.0	12416.6	12413.1	12660.8	11935.2
55°	11778.2	11952.6	12360.8	13240.0	14401.7	14973.9	14314.5	14000.5	13717.9	13892.4	13002.7
57.5°	11746.8	11813.1	12448.0	13533.0	15148.4	16188.0	15713.5	15413.5	15050.7	14949.5	14230.8
60°	11195.5	11352.5	12064.3	13334.2	15608.9	17133.5	17018.3	16711.3	16086.8	15849.6	15172.8
62.5°	10103.6	10312.9	10871.1	12636.4	14939.0	17182.3	17918.5	17803.3	17105.6	16679.9	16400.8
65°	8188.2	8285.9	8927.8	10864.1	13424.9	16432.2	18982.5	18839.5	18197.6	17562.6	17032.3
67.5°	5303.0	5397.2	6014.7	7755.6	10543.1	14495.9	18940.7	19334.9	18640.6	17876.6	16638.1
70°	2505.0	2480.5	3056.2	4308.7	6754.3	11069.9	17660.3	18438.3	17848.7	16205.5	13819.1
72.5°	764.0	830.3	1269.9	1908.4	3467.9	6904.3	13843.5	14572.7	14387.8	12946.9	9224.4
75°	338.4	366.3	498.9	781.5	1406.0	2832.9	8551.0	9200.0	9119.7	7637.0	4211.0
77.5°	216.3	237.2	314.0	446.6	638.4	900.1	3938.9	4570.3	4430.8	2682.9	1102.5
80°	153.5	164.0	223.3	307.0	401.2	369.8	1357.1	1611.8	1545.5	729.2	296.5
82.5°	83.7	90.7	164.0	226.8	268.6	188.4	380.3	474.5	495.4	324.5	143.0
85°	31.4	38.4	101.2	160.5	139.6	87.2	111.6	136.1	177.9	177.9	66.3
87.5°	0.0	3.5	41.9	69.8	34.9	24.4	31.4	38.4	48.8	83.7	24.4
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°	2770.1	2770.1	2770.1	2770.1	2770.1	2770.1	2770.1	2770.1	2770.1	2770.1	2770.1
2.5°	2801.5	2777.1	2787.5	2805.0	2766.6	2787.5	2745.7	2777.1	2787.5	2745.7	2766.6
5°	2836.4	2860.8	2846.9	2818.9	2794.5	2801.5	2791.0	2766.6	2787.5	2794.5	2780.6
7.5°	2937.6	2909.7	2916.6	2885.2	2836.4	2832.9	2766.6	2749.2	2756.1	2763.1	2738.7
10°	3031.8	3049.2	3014.3	2989.9	2909.7	2857.3	2766.6	2668.9	2658.5	2616.6	2651.5
12.5°	3199.2	3157.4	3143.4	3063.2	2982.9	2808.5	2613.1	2463.1	2337.5	2292.1	2246.8
15°	3338.8	3331.8	3307.4	3185.3	3000.4	2682.9	2313.1	1964.2	1723.5	1573.4	1552.5
17.5°	3530.7	3499.3	3453.9	3262.0	2871.3	2354.9	1723.5	1283.9	1043.1	949.0	914.1
20°	3677.2	3652.8	3590.0	3244.6	2637.5	1754.9	1067.6	816.4	757.1	739.6	743.1
22.5°	3890.0	3813.3	3694.6	3157.4	2211.9	1168.7	767.5	729.2	718.7	704.7	708.2
25°	4074.9	4005.1	3757.4	3007.3	1576.9	774.5	711.7	690.8	673.3	655.9	652.4
27.5°	4238.9	4151.7	3823.7	2700.3	987.3	666.4	659.4	635.0	600.1	572.2	561.7
30°	4399.4	4298.2	3841.2	2124.7	666.4	603.6	586.1	547.7	502.4	464.0	457.0
32.5°	4668.0	4545.9	3816.7	1517.6	575.7	537.3	498.9	453.5	387.3	355.9	348.9
35°	5086.7	4901.8	3785.3	893.1	516.3	474.5	415.2	355.9	307.0	275.6	268.6
37.5°	5568.1	5247.1	3694.6	596.6	474.5	418.7	341.9	282.6	240.7	216.3	209.3
40°	6283.3	5753.0	3345.8	488.4	422.1	355.9	275.6	223.3	191.9	174.4	167.5
42.5°	7071.8	6332.2	2808.5	439.6	373.3	303.5	219.8	181.4	157.0	139.6	139.6
45°	8017.3	6935.7	2166.5	401.2	331.4	251.2	181.4	146.5	125.6	111.6	104.7
47.5°	9070.9	7483.5	1461.8	362.8	279.1	205.8	150.0	111.6	90.7	80.2	80.2
50°	10012.8	7968.4	931.5	317.5	244.2	171.0	122.1	90.7	73.3	59.3	55.8
52.5°	10867.6	8338.2	641.9	279.1	209.3	139.6	101.2	73.3	55.8	45.4	45.4
55°	11743.3	8526.6	474.5	240.7	181.4	118.6	83.7	66.3	48.8	38.4	34.9
57.5°	12462.0	8606.9	362.8	209.3	153.5	94.2	73.3	55.8	41.9	31.4	27.9
60°	13076.0	8568.5	282.6	174.4	122.1	80.2	62.8	45.4	34.9	24.4	20.9
62.5°	13435.4	8338.2	223.3	150.0	97.7	69.8	52.3	38.4	24.4	17.4	14.0
65°	13442.3	7849.8	174.4	111.6	73.3	59.3	45.4	31.4	17.4	7.0	3.5
67.5°	12479.4	6792.7	139.6	87.2	59.3	45.4	34.9	24.4	7.0	0.0	0.0
70°	9761.7	5139.0	115.1	69.8	48.8	38.4	24.4	14.0	3.5	0.0	0.0
72.5°	6220.5	3077.1	94.2	55.8	41.9	27.9	17.4	10.5	0.0	0.0	0.0
75°	2602.6	949.0	73.3	48.8	31.4	20.9	14.0	3.5	0.0	0.0	0.0
77.5°	669.8	300.0	59.3	41.9	31.4	17.4	10.5	3.5	0.0	0.0	0.0
80°	198.9	111.6	48.8	34.9	24.4	14.0	7.0	3.5	0.0	0.0	0.0
82.5°	90.7	66.3	41.9	31.4	20.9	14.0	7.0	0.0	0.0	0.0	0.0
85°	34.9	20.9	20.9	17.4	17.4	10.5	3.5	0.0	0.0	0.0	0.0
87.5°	14.0	7.0	7.0	7.0	3.5	3.5	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)