

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: P482630

Luminaire Tested: **IFLD-L-SA7D-830-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482630
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-830-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

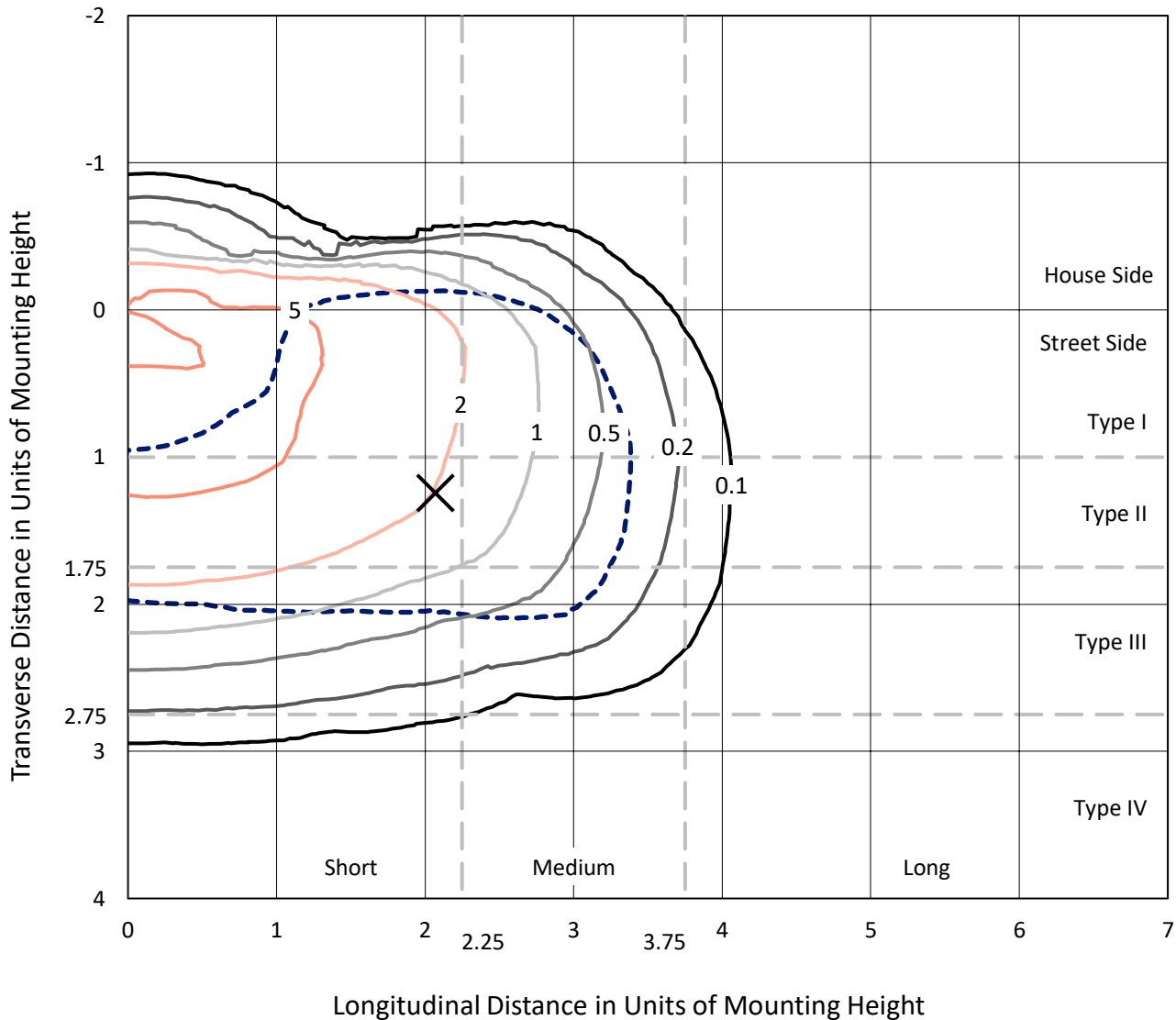
Lumens per Lamp: N/A
Luminaire Lumens: 28760.7 lumens
Efficiency: N/A
Efficacy: 68.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 422.6
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

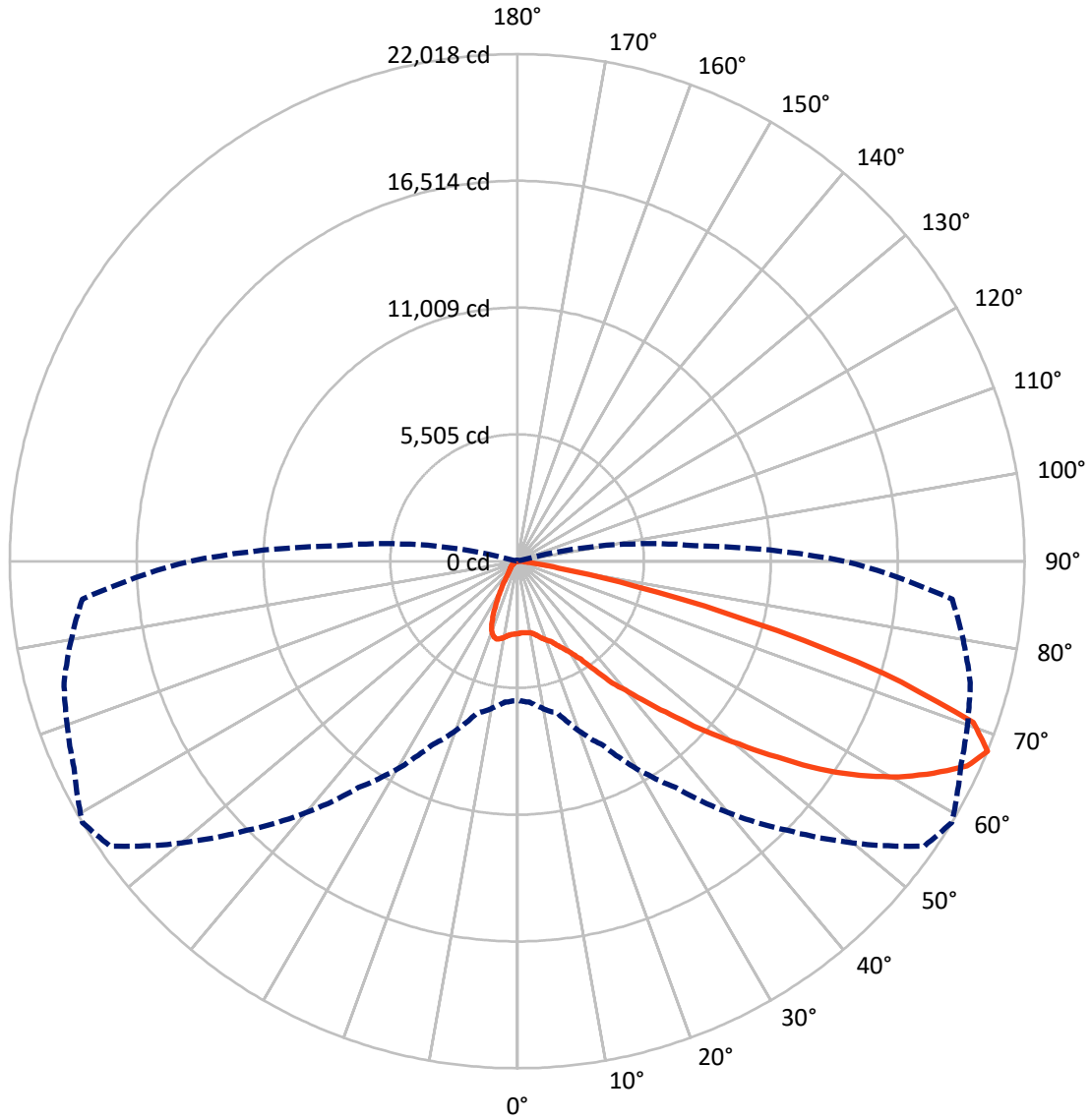
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	3378.4	0.0	3378.4
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	25382.3	0.0	25382.3
	% Fixture	88.3	0.0	88.3
Total	Lumens	28760.7	0.0	28760.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.7	1.0
10°-20°	865.6	3.0
20°-30°	1512.8	5.3
30°-40°	2663.4	9.3
40°-50°	4708.1	16.4
50°-60°	7454.6	25.9
60°-70°	8269.2	28.8
70°-80°	2869.2	10.0
80°-90°	118.1	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°	28760.7	100.0
0°-180°	28760.7	100.0

Coefficient of Utilization

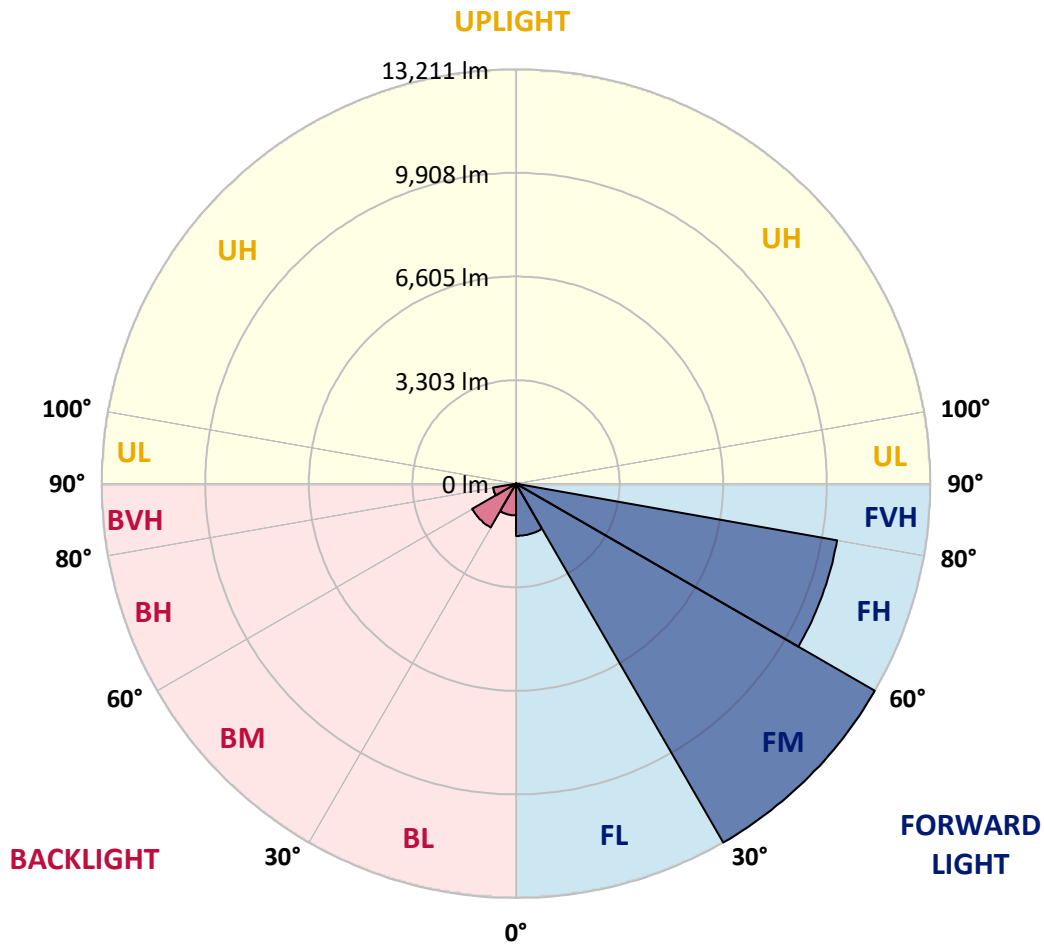


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1665.5	5.8			
FM (30°-60°)	13210.9	45.9			
FH (60°-80°)	10395.5	36.1			G4/12000
FVH (80°-90°)	110.5	0.4			G2/225
BL (0°-30°)	1012.5	3.5	B3/2500		
BM (30°-60°)	1615.3	5.6	B2/2500		
BH (60°-80°)	743.0	2.6	B2/1000		G2/1000
BVH (80°-90°)	7.6	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-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3154.5	3154.5	3154.5	3154.5	3154.5	3154.5	3154.5	3154.5	3154.5	3154.5	3154.5
2.5°	3063.2	3019.5	3059.2	3063.2	3067.1	3102.9	3142.6	3114.8	3110.8	3142.6	3170.4
5°	2940.0	2920.1	2967.8	2991.6	3031.4	3063.2	3126.7	3130.7	3134.7	3170.4	3218.1
7.5°	2888.3	2840.7	2896.3	2924.1	2951.9	3027.4	3102.9	3142.6	3198.2	3241.9	3289.6
10°	2785.1	2820.8	2836.7	2884.4	2963.8	3051.2	3142.6	3162.5	3285.6	3321.4	3436.6
12.5°	2820.8	2844.6	2876.4	2888.3	2975.8	3106.9	3230.0	3238.0	3365.1	3520.1	3579.6
15°	2912.2	2896.3	2908.2	2924.1	3027.4	3134.7	3333.3	3369.1	3488.3	3663.1	3810.1
17.5°	3106.9	3079.1	3059.2	3055.2	3079.1	3178.4	3412.8	3520.1	3631.3	3869.7	3945.2
20°	3595.5	3571.7	3492.2	3285.6	3214.1	3253.9	3508.1	3659.1	3814.1	4080.2	4203.4
22.5°	4338.5	4362.3	4175.6	3885.6	3587.6	3432.6	3659.1	3790.2	4036.5	4374.2	4485.5
25°	5216.5	5168.8	4942.4	4604.7	4135.9	3770.3	3901.5	4048.5	4350.4	4628.5	4672.2
27.5°	5903.8	5848.2	5673.4	5264.2	4858.9	4267.0	4219.3	4310.7	4668.2	4918.5	4870.9
30°	6583.2	6603.1	6483.9	5999.2	5498.6	4874.8	4572.9	4612.6	4886.8	5208.6	5101.3
32.5°	7449.3	7401.6	7334.1	6909.0	6317.0	5649.6	5133.1	5069.5	5188.7	5613.8	5486.7
35°	8255.8	8228.0	8136.6	7707.6	7191.1	6464.0	5959.5	5816.4	5788.6	6261.4	6038.9
37.5°	8959.0	8911.4	8772.3	8498.2	7997.6	7385.7	6833.5	6706.4	6702.4	7028.2	6599.1
40°	9551.0	9586.8	9570.9	9268.9	8994.8	8506.1	7659.9	7457.3	7441.4	7616.2	7365.9
42.5°	10317.8	10401.2	10357.5	10297.9	9968.2	9777.5	8820.0	8510.1	8371.0	8728.6	8502.2
45°	11477.9	11509.7	11537.5	11390.5	11060.7	11100.5	10019.8	9650.3	9614.6	10147.0	9638.4
47.5°	12562.5	12479.1	12673.8	12681.7	12665.8	12483.1	11315.0	11040.9	11088.6	11493.8	10969.4
50°	12832.7	13047.2	13583.6	13682.9	13941.1	14108.0	12753.2	12479.1	12558.6	13019.4	12419.5
52.5°	13043.3	13369.0	13905.4	14632.4	15327.7	15725.0	14362.3	14139.8	14135.8	14417.9	13591.5
55°	13412.7	13611.4	14076.2	15077.4	16400.4	17052.0	16301.1	15943.5	15621.7	15820.4	14807.3
57.5°	13377.0	13452.5	14175.6	15411.1	17250.6	18434.6	17894.3	17552.6	17139.4	17024.2	16205.7
60°	12749.3	12928.0	13738.5	15184.7	17775.1	19511.3	19380.1	19030.5	18319.4	18049.2	17278.4
62.5°	11505.7	11744.1	12379.8	14390.1	17012.3	19566.9	20405.2	20274.1	19479.5	18994.8	18676.9
65°	9324.6	9435.8	10166.8	12371.8	15288.0	18712.7	21616.9	21454.0	20723.0	19999.9	19396.0
67.5°	6038.9	6146.2	6849.4	8831.9	12006.3	16507.7	21569.2	22018.2	21227.6	20357.5	18947.1
70°	2852.6	2824.8	3480.3	4906.6	7691.7	12606.2	20111.2	20997.1	20325.7	18454.4	15736.9
72.5°	870.1	945.6	1446.2	2173.2	3949.1	7862.5	15764.7	16595.1	16384.5	14743.7	10504.5
75°	385.4	417.2	568.1	889.9	1601.1	3226.1	9737.7	10476.7	10385.3	8696.8	4795.4
77.5°	246.3	270.2	357.6	508.5	727.1	1025.0	4485.5	5204.6	5045.7	3055.2	1255.5
80°	174.8	186.7	254.3	349.6	456.9	421.1	1545.5	1835.5	1760.0	830.4	337.7
82.5°	95.4	103.3	186.7	258.2	305.9	214.5	433.1	540.3	564.2	369.5	162.9
85°	35.8	43.7	115.2	182.8	158.9	99.3	127.1	154.9	202.6	202.6	75.5
87.5°	0.0	4.0	47.7	79.5	39.7	27.8	35.8	43.7	55.6	95.4	27.8
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°	3154.5	3154.5	3154.5	3154.5	3154.5	3154.5	3154.5	3154.5	3154.5	3154.5	3154.5
2.5°	3190.3	3162.5	3174.4	3194.3	3150.6	3174.4	3126.7	3162.5	3174.4	3126.7	3150.6
5°	3230.0	3257.8	3241.9	3210.2	3182.3	3190.3	3178.4	3150.6	3174.4	3182.3	3166.5
7.5°	3345.2	3313.5	3321.4	3285.6	3230.0	3226.1	3150.6	3130.7	3138.6	3146.6	3118.8
10°	3452.5	3472.4	3432.6	3404.8	3313.5	3253.9	3150.6	3039.3	3027.4	2979.7	3019.5
12.5°	3643.2	3595.5	3579.6	3488.3	3396.9	3198.2	2975.8	2804.9	2661.9	2610.2	2558.6
15°	3802.1	3794.2	3766.4	3627.3	3416.8	3055.2	2634.1	2236.8	1962.6	1791.8	1768.0
17.5°	4020.6	3984.9	3933.2	3714.7	3269.8	2681.8	1962.6	1462.1	1187.9	1080.6	1040.9
20°	4187.5	4159.7	4088.2	3694.9	3003.6	1998.4	1215.7	929.7	862.1	842.3	846.2
22.5°	4429.9	4342.5	4207.4	3595.5	2518.9	1330.9	874.1	830.4	818.4	802.5	806.5
25°	4640.4	4561.0	4278.9	3424.7	1795.8	882.0	810.5	786.6	766.8	746.9	742.9
27.5°	4827.2	4727.8	4354.4	3075.1	1124.4	758.8	750.9	723.1	683.4	651.6	639.6
30°	5009.9	4894.7	4374.2	2419.5	758.8	687.3	667.5	623.8	572.1	528.4	520.5
32.5°	5315.8	5176.8	4346.4	1728.2	655.5	611.8	568.1	516.5	441.0	405.2	397.3
35°	5792.6	5582.0	4310.7	1017.1	588.0	540.3	472.8	405.2	349.6	313.9	305.9
37.5°	6340.9	5975.3	4207.4	679.4	540.3	476.8	389.4	321.8	274.1	246.3	238.4
40°	7155.3	6551.4	3810.1	556.2	480.7	405.2	313.9	254.3	218.5	198.6	190.7
42.5°	8053.2	7210.9	3198.2	500.6	425.1	345.6	250.3	206.6	178.8	158.9	158.9
45°	9129.9	7898.3	2467.2	456.9	377.4	286.1	206.6	166.9	143.0	127.1	119.2
47.5°	10329.7	8522.0	1664.7	413.2	317.8	234.4	170.8	127.1	103.3	91.4	91.4
50°	11402.4	9074.3	1060.8	361.5	278.1	194.7	139.1	103.3	83.4	67.5	63.6
52.5°	12375.8	9495.4	731.0	317.8	238.4	158.9	115.2	83.4	63.6	51.6	51.6
55°	13373.0	9709.9	540.3	274.1	206.6	135.1	95.4	75.5	55.6	43.7	39.7
57.5°	14191.4	9801.3	413.2	238.4	174.8	107.3	83.4	63.6	47.7	35.8	31.8
60°	14890.7	9757.6	321.8	198.6	139.1	91.4	71.5	51.6	39.7	27.8	23.8
62.5°	15299.9	9495.4	254.3	170.8	111.2	79.5	59.6	43.7	27.8	19.9	15.9
65°	15307.9	8939.2	198.6	127.1	83.4	67.5	51.6	35.8	19.9	7.9	4.0
67.5°	14211.3	7735.4	158.9	99.3	67.5	51.6	39.7	27.8	7.9	0.0	0.0
70°	11116.4	5852.2	131.1	79.5	55.6	43.7	27.8	15.9	4.0	0.0	0.0
72.5°	7083.8	3504.2	107.3	63.6	47.7	31.8	19.9	11.9	0.0	0.0	0.0
75°	2963.8	1080.6	83.4	55.6	35.8	23.8	15.9	4.0	0.0	0.0	0.0
77.5°	762.8	341.7	67.5	47.7	35.8	19.9	11.9	4.0	0.0	0.0	0.0
80°	226.5	127.1	55.6	39.7	27.8	15.9	7.9	4.0	0.0	0.0	0.0
82.5°	103.3	75.5	47.7	35.8	23.8	15.9	7.9	0.0	0.0	0.0	0.0
85°	39.7	23.8	23.8	19.9	19.9	11.9	4.0	0.0	0.0	0.0	0.0
87.5°	15.9	7.9	7.9	7.9	4.0	4.0	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)