

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: P482511

Luminaire Tested: **IFLD-L-SA7B-750-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482511
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-750-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

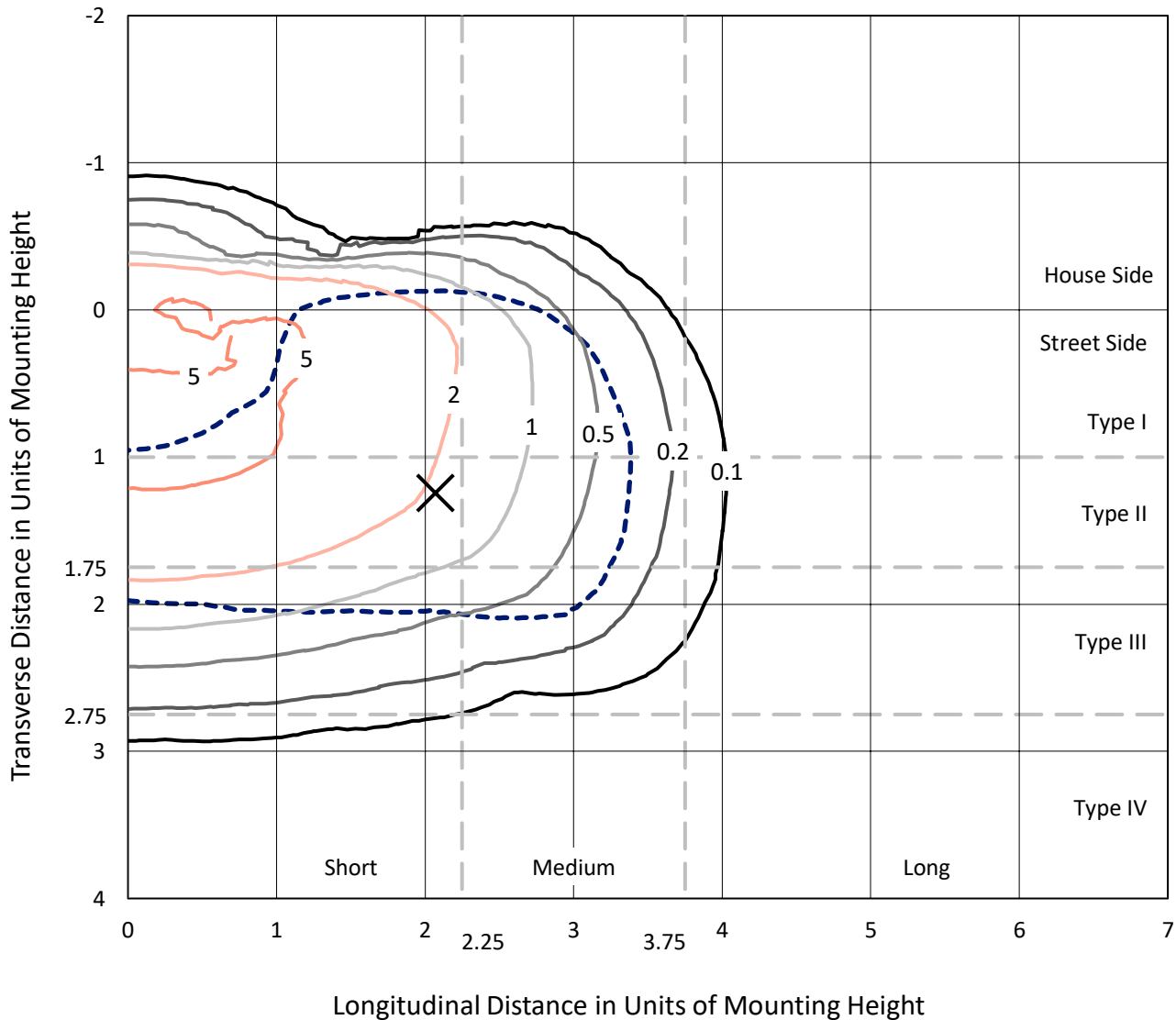
Lumens per Lamp: N/A
Luminaire Lumens: 27030.2 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 281
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

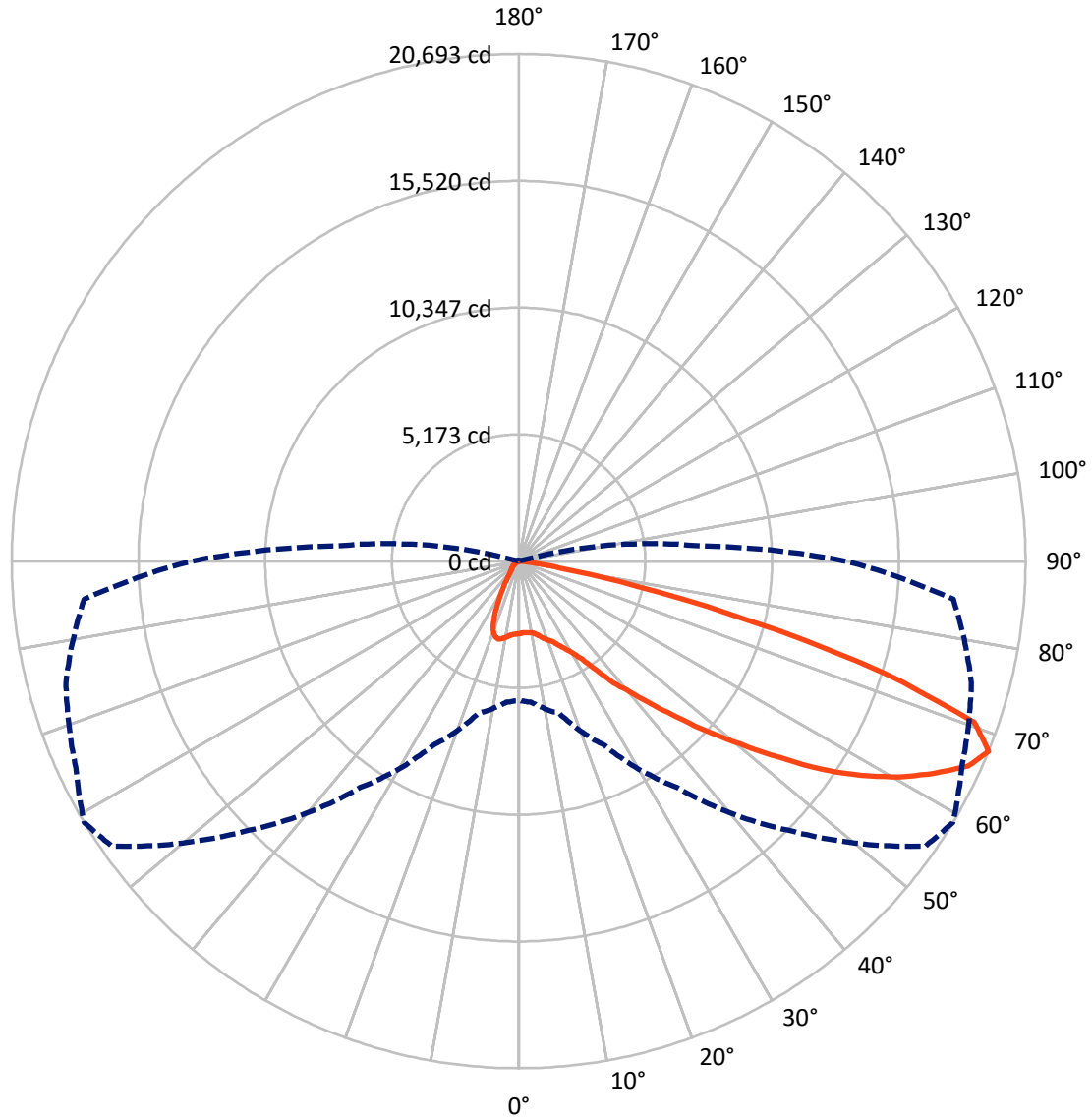
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	3175.1	0.0	3175.1
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	23855.0	0.0	23855.0
	% Fixture	88.3	0.0	88.3
Total	Lumens	27030.2	0.0	27030.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.6	1.0
10°-20°	813.5	3.0
20°-30°	1421.8	5.3
30°-40°	2503.2	9.3
40°-50°	4424.8	16.4
50°-60°	7006.0	25.9
60°-70°	7771.6	28.8
70°-80°	2696.6	10.0
80°-90°	111.0	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°	27030.2	100.0
0°-180°	27030.2	100.0

Coefficient of Utilization

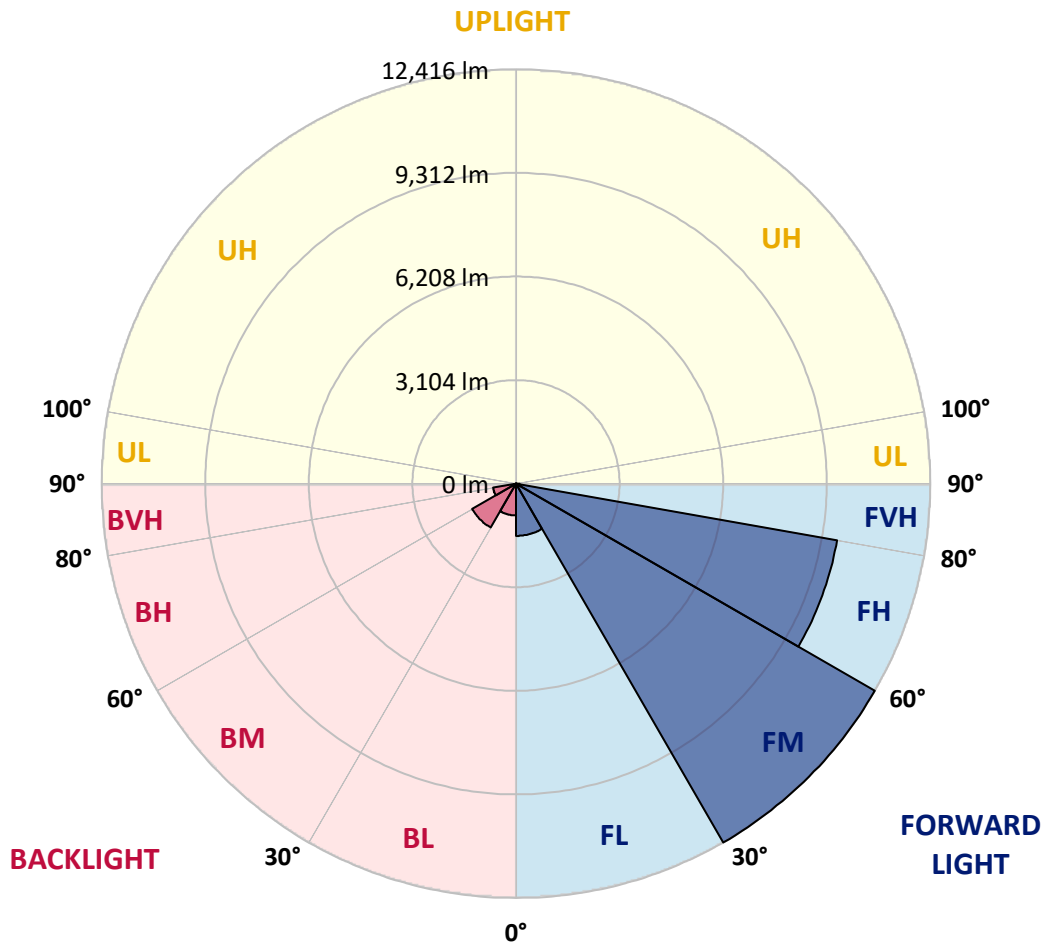


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1565.2	5.8			
FM (30°-60°)	12416.0	45.9			
FH (60°-80°)	9769.9	36.1			G4/12000
FVH (80°-90°)	103.9	0.4			G2/225
BL (0°-30°)	951.6	3.5	B2/1000		
BM (30°-60°)	1518.1	5.6	B2/2500		
BH (60°-80°)	698.3	2.6	B2/1000		G2/1000
BVH (80°-90°)	7.2	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°	2964.7	2964.7	2964.7	2964.7	2964.7	2964.7	2964.7	2964.7	2964.7	2964.7	2964.7
2.5°	2878.8	2837.8	2875.1	2878.8	2882.6	2916.2	2953.5	2927.4	2923.7	2953.5	2979.7
5°	2763.1	2744.4	2789.2	2811.6	2849.0	2878.8	2938.6	2942.3	2946.1	2979.7	3024.5
7.5°	2714.6	2669.7	2722.0	2748.2	2774.3	2845.2	2916.2	2953.5	3005.8	3046.9	3091.7
10°	2617.5	2651.1	2666.0	2710.8	2785.5	2867.6	2953.5	2972.2	3087.9	3121.5	3229.8
12.5°	2651.1	2673.5	2703.3	2714.6	2796.7	2919.9	3035.7	3043.1	3162.6	3308.2	3364.3
15°	2737.0	2722.0	2733.2	2748.2	2845.2	2946.1	3132.7	3166.4	3278.4	3442.7	3580.8
17.5°	2919.9	2893.8	2875.1	2871.4	2893.8	2987.1	3207.4	3308.2	3412.8	3636.8	3707.8
20°	3379.2	3356.8	3282.1	3087.9	3020.7	3058.1	3297.0	3438.9	3584.6	3834.7	3950.5
22.5°	4077.4	4099.8	3924.3	3651.8	3371.7	3226.1	3438.9	3562.1	3793.7	4111.0	4215.6
25°	4902.6	4857.8	4645.0	4327.6	3887.0	3543.5	3666.7	3804.9	4088.6	4350.0	4391.1
27.5°	5548.6	5496.3	5332.0	4947.4	4566.6	4010.2	3965.4	4051.3	4387.3	4622.6	4577.8
30°	6187.1	6205.8	6093.7	5638.2	5167.7	4581.5	4297.7	4335.1	4592.7	4895.2	4794.3
32.5°	7001.1	6956.3	6892.8	6493.3	5936.9	5309.6	4824.2	4764.5	4876.5	5276.0	5156.5
35°	7759.1	7732.9	7647.0	7243.8	6758.4	6075.1	5600.9	5466.4	5440.3	5884.6	5675.5
37.5°	8420.0	8375.2	8244.5	7986.8	7516.4	6941.3	6422.3	6302.8	6299.1	6605.3	6202.0
40°	8976.3	9009.9	8995.0	8711.2	8453.6	7994.3	7199.0	7008.5	6993.6	7157.9	6922.7
42.5°	9697.0	9775.4	9734.3	9678.3	9368.4	9189.1	8289.3	7998.0	7867.3	8203.4	7990.6
45°	10787.3	10817.1	10843.3	10705.1	10395.2	10432.5	9416.9	9069.7	9036.1	9536.4	9058.5
47.5°	11806.6	11728.2	11911.2	11918.6	11903.7	11731.9	10634.2	10376.5	10421.3	10802.2	10309.3
50°	12060.5	12262.2	12766.2	12859.6	13102.3	13259.1	11985.8	11728.2	11802.9	12236.0	11672.2
52.5°	12258.4	12564.6	13068.7	13752.0	14405.4	14778.8	13498.1	13289.0	13285.2	13550.4	12773.7
55°	12605.7	12792.4	13229.2	14170.2	15413.6	16025.9	15320.2	14984.2	14681.7	14868.4	13916.3
57.5°	12572.1	12643.0	13322.6	14483.8	16212.6	17325.3	16817.5	16496.4	16108.1	15999.8	15230.6
60°	11982.1	12150.1	12911.9	14271.0	16705.5	18337.2	18214.0	17885.4	17217.1	16963.1	16238.8
62.5°	10813.4	11037.4	11634.9	13524.2	15988.6	18389.5	19177.4	19054.1	18307.4	17851.8	17553.1
65°	8763.5	8868.0	9555.1	11627.4	14368.1	17586.7	20316.2	20163.1	19476.1	18796.5	18228.9
67.5°	5675.5	5776.4	6437.3	8300.5	11283.9	15514.4	20271.4	20693.3	19950.3	19132.5	17807.0
70°	2680.9	2654.8	3270.9	4611.4	7228.8	11847.7	18901.0	19733.7	19102.7	17344.0	14790.0
72.5°	817.7	888.7	1359.1	2042.4	3711.5	7389.4	14816.1	15596.5	15398.6	13856.5	9872.5
75°	362.2	392.1	533.9	836.4	1504.8	3031.9	9151.8	9846.3	9760.4	8173.5	4506.8
77.5°	231.5	253.9	336.1	477.9	683.3	963.3	4215.6	4891.4	4742.1	2871.4	1179.9
80°	164.3	175.5	239.0	328.6	429.4	395.8	1452.5	1725.1	1654.1	780.4	317.4
82.5°	89.6	97.1	175.5	242.7	287.5	201.6	407.0	507.8	530.2	347.3	153.1
85°	33.6	41.1	108.3	171.8	149.4	93.3	119.5	145.6	190.4	190.4	70.9
87.5°	0.0	3.7	44.8	74.7	37.3	26.1	33.6	41.1	52.3	89.6	26.1
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°	2964.7	2964.7	2964.7	2964.7	2964.7	2964.7	2964.7	2964.7	2964.7	2964.7	2964.7
2.5°	2998.3	2972.2	2983.4	3002.1	2961.0	2983.4	2938.6	2972.2	2983.4	2938.6	2961.0
5°	3035.7	3061.8	3046.9	3017.0	2990.9	2998.3	2987.1	2961.0	2983.4	2990.9	2975.9
7.5°	3144.0	3114.1	3121.5	3087.9	3035.7	3031.9	2961.0	2942.3	2949.8	2957.3	2931.1
10°	3244.8	3263.4	3226.1	3200.0	3114.1	3058.1	2961.0	2856.4	2845.2	2800.4	2837.8
12.5°	3424.0	3379.2	3364.3	3278.4	3192.5	3005.8	2796.7	2636.1	2501.7	2453.2	2404.6
15°	3573.4	3565.9	3539.7	3409.1	3211.2	2871.4	2475.6	2102.2	1844.6	1684.0	1661.6
17.5°	3778.7	3745.1	3696.6	3491.2	3073.0	2520.4	1844.6	1374.1	1116.4	1015.6	978.3
20°	3935.5	3909.4	3842.2	3472.5	2822.8	1878.2	1142.6	873.7	810.3	791.6	795.3
22.5°	4163.3	4081.2	3954.2	3379.2	2367.3	1250.9	821.5	780.4	769.2	754.2	758.0
25°	4361.2	4286.5	4021.4	3218.6	1687.7	828.9	761.7	739.3	720.6	702.0	698.2
27.5°	4536.7	4443.4	4092.4	2890.0	1056.7	713.2	705.7	679.6	642.2	612.4	601.2
30°	4708.5	4600.2	4111.0	2274.0	713.2	646.0	627.3	586.2	537.7	496.6	489.1
32.5°	4996.0	4865.3	4084.9	1624.3	616.1	575.0	533.9	485.4	414.5	380.9	373.4
35°	5444.0	5246.1	4051.3	955.9	552.6	507.8	444.3	380.9	328.6	295.0	287.5
37.5°	5959.3	5615.8	3954.2	638.5	507.8	448.1	365.9	302.4	257.6	231.5	224.0
40°	6724.8	6157.2	3580.8	522.7	451.8	380.9	295.0	239.0	205.4	186.7	179.2
42.5°	7568.6	6777.0	3005.8	470.5	399.5	324.9	235.2	194.2	168.0	149.4	149.4
45°	8580.5	7423.0	2318.8	429.4	354.7	268.8	194.2	156.8	134.4	119.5	112.0
47.5°	9708.2	8009.2	1564.5	388.3	298.7	220.3	160.6	119.5	97.1	85.9	85.9
50°	10716.3	8528.2	997.0	339.8	261.4	183.0	130.7	97.1	78.4	63.5	59.7
52.5°	11631.1	8924.0	687.0	298.7	224.0	149.4	108.3	78.4	59.7	48.5	48.5
55°	12568.3	9125.7	507.8	257.6	194.2	127.0	89.6	70.9	52.3	41.1	37.3
57.5°	13337.5	9211.6	388.3	224.0	164.3	100.8	78.4	59.7	44.8	33.6	29.9
60°	13994.7	9170.5	302.4	186.7	130.7	85.9	67.2	48.5	37.3	26.1	22.4
62.5°	14379.3	8924.0	239.0	160.6	104.5	74.7	56.0	41.1	26.1	18.7	14.9
65°	14386.7	8401.3	186.7	119.5	78.4	63.5	48.5	33.6	18.7	7.5	3.7
67.5°	13356.2	7269.9	149.4	93.3	63.5	48.5	37.3	26.1	7.5	0.0	0.0
70°	10447.5	5500.0	123.2	74.7	52.3	41.1	26.1	14.9	3.7	0.0	0.0
72.5°	6657.6	3293.3	100.8	59.7	44.8	29.9	18.7	11.2	0.0	0.0	0.0
75°	2785.5	1015.6	78.4	52.3	33.6	22.4	14.9	3.7	0.0	0.0	0.0
77.5°	716.9	321.1	63.5	44.8	33.6	18.7	11.2	3.7	0.0	0.0	0.0
80°	212.8	119.5	52.3	37.3	26.1	14.9	7.5	3.7	0.0	0.0	0.0
82.5°	97.1	70.9	44.8	33.6	22.4	14.9	7.5	0.0	0.0	0.0	0.0
85°	37.3	22.4	22.4	18.7	18.7	11.2	3.7	0.0	0.0	0.0	0.0
87.5°	14.9	7.5	7.5	7.5	3.7	3.7	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)