

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: P482318

Luminaire Tested: **IFLD-L-SA7D-722-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482318
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-722-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

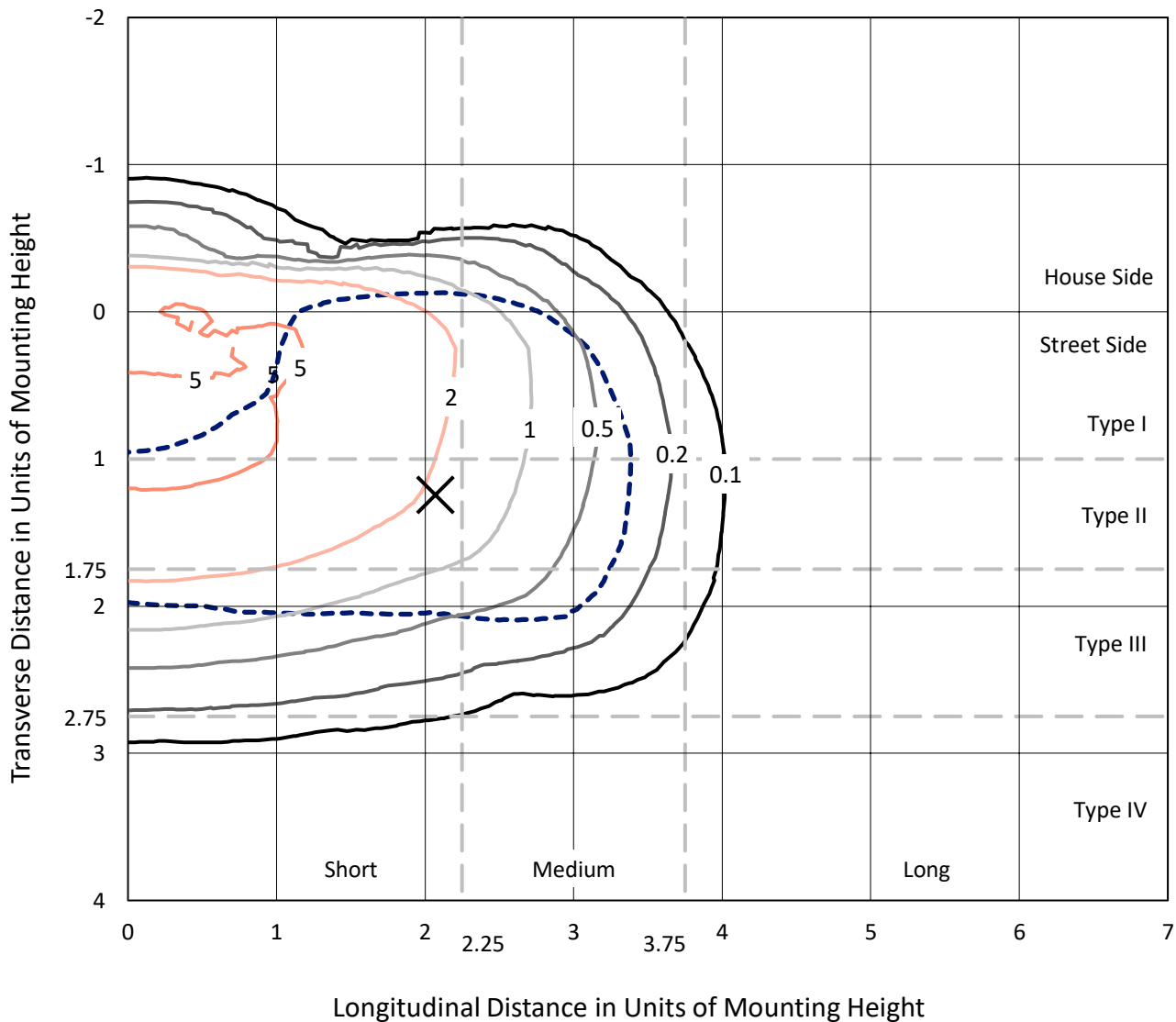
Lumens per Lamp: N/A
Luminaire Lumens: 26661.4 lumens
Efficiency: N/A
Efficacy: 63.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 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

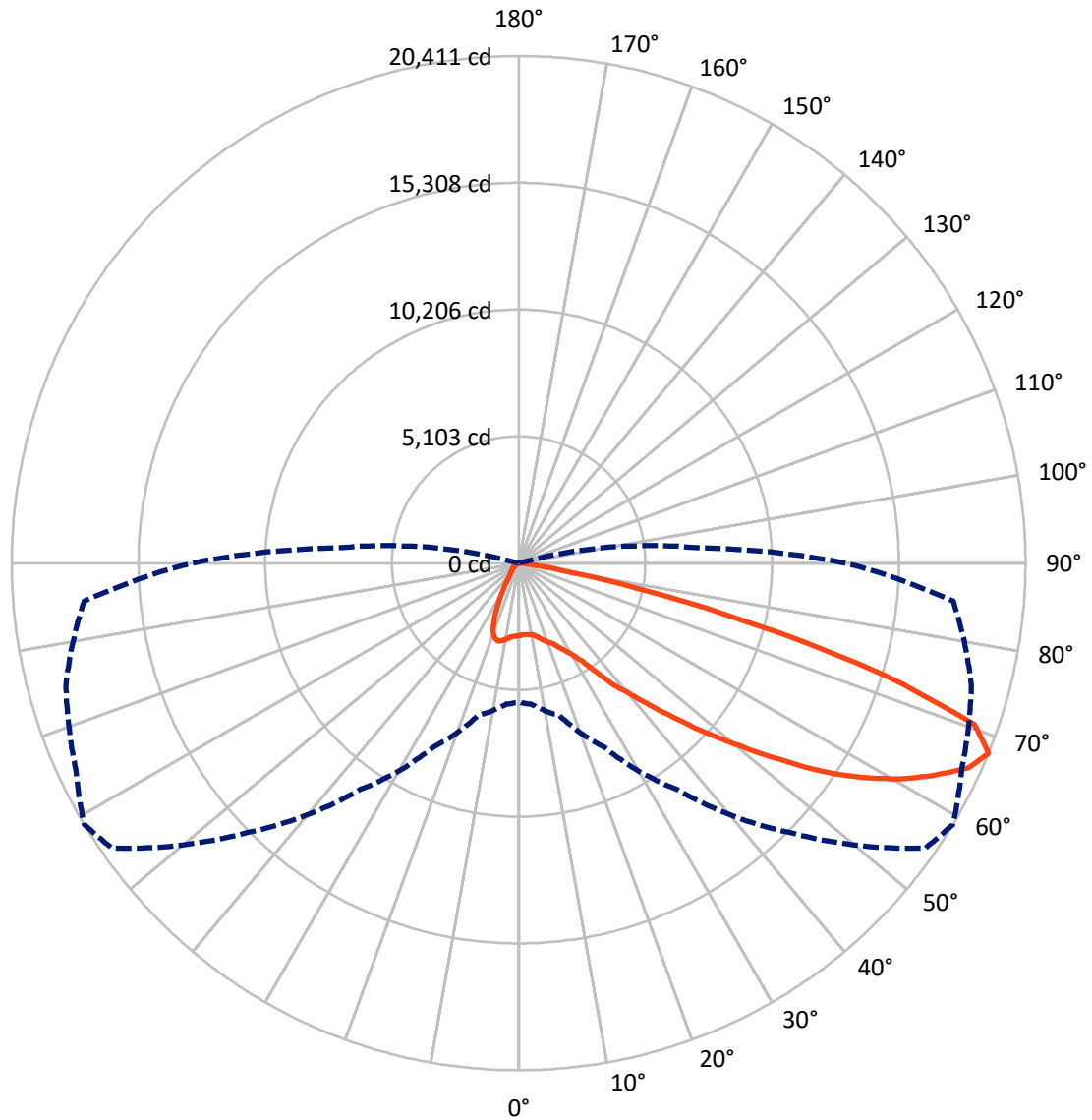
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	3131.8	0.0	3131.8
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	23529.6	0.0	23529.6
	% Fixture	88.3	0.0	88.3
Total	Lumens	26661.4	0.0	26661.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.8	1.0
10°-20°	802.4	3.0
20°-30°	1402.4	5.3
30°-40°	2469.0	9.3
40°-50°	4364.5	16.4
50°-60°	6910.5	25.9
60°-70°	7665.6	28.8
70°-80°	2659.8	10.0
80°-90°	109.5	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°	26661.4	100.0
0°-180°	26661.4	100.0

Coefficient of Utilization

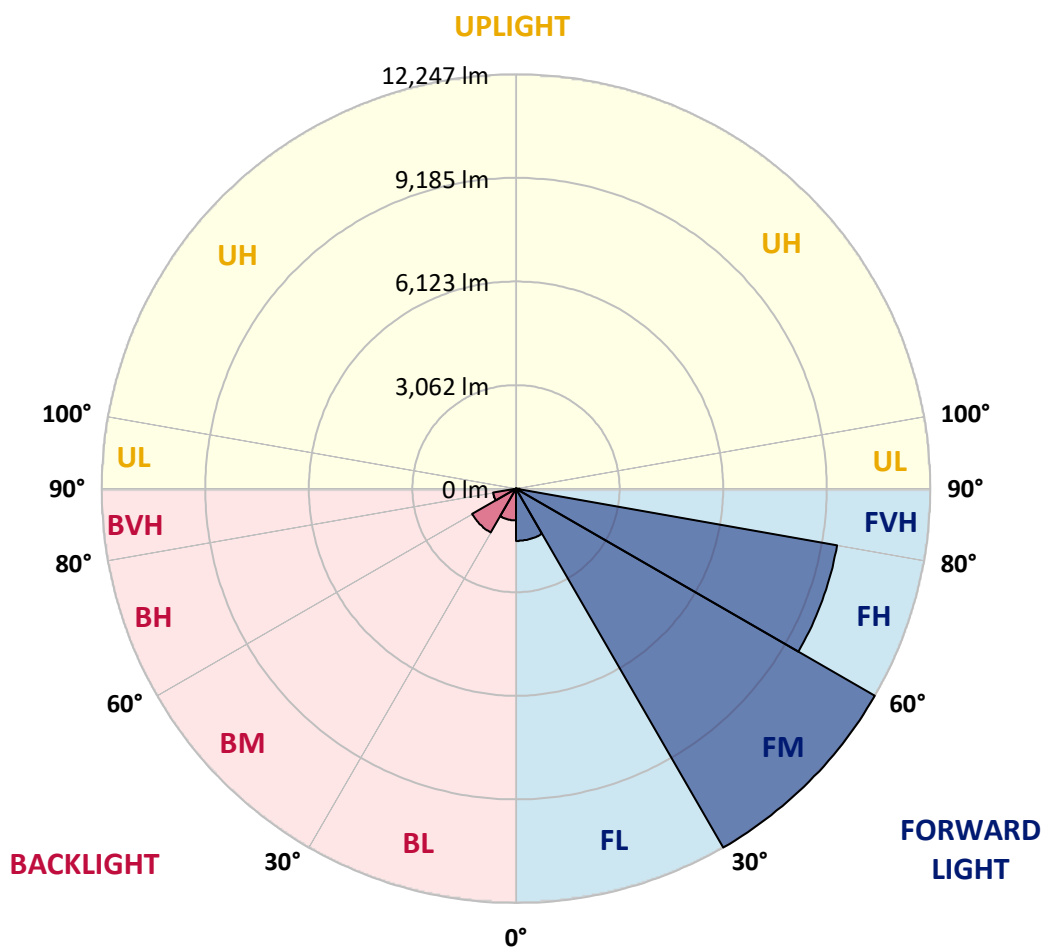


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1543.9	5.8			
FM (30°-60°)	12246.6	45.9			
FH (60°-80°)	9636.7	36.1			G4/12000
FVH (80°-90°)	102.4	0.4			G2/225
BL (0°-30°)	938.6	3.5	B2/1000		
BM (30°-60°)	1497.4	5.6	B2/2500		
BH (60°-80°)	688.7	2.6	B2/1000		G2/1000
BVH (80°-90°)	7.1	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°	2924.3	2924.3	2924.3	2924.3	2924.3	2924.3	2924.3	2924.3	2924.3	2924.3	2924.3
2.5°	2839.6	2799.1	2835.9	2839.6	2843.3	2876.4	2913.2	2887.4	2883.8	2913.2	2939.0
5°	2725.4	2707.0	2751.2	2773.3	2810.1	2839.6	2898.5	2902.2	2905.9	2939.0	2983.2
7.5°	2677.5	2633.3	2684.9	2710.7	2736.4	2806.4	2876.4	2913.2	2964.8	3005.3	3049.5
10°	2581.8	2614.9	2629.6	2673.8	2747.5	2828.5	2913.2	2931.6	3045.8	3079.0	3185.8
12.5°	2614.9	2637.0	2666.5	2677.5	2758.5	2880.1	2994.3	3001.6	3119.5	3263.1	3318.4
15°	2699.6	2684.9	2695.9	2710.7	2806.4	2905.9	3090.0	3123.2	3233.6	3395.7	3532.0
17.5°	2880.1	2854.3	2835.9	2832.2	2854.3	2946.4	3163.7	3263.1	3366.2	3587.2	3657.2
20°	3333.1	3311.0	3237.3	3045.8	2979.5	3016.4	3252.1	3392.0	3535.7	3782.4	3896.6
22.5°	4021.8	4043.9	3870.8	3601.9	3325.7	3182.1	3392.0	3513.6	3741.9	4055.0	4158.1
25°	4835.7	4791.5	4581.6	4268.6	3834.0	3495.1	3616.7	3752.9	4032.9	4290.7	4331.2
27.5°	5472.9	5421.3	5259.3	4879.9	4504.3	3955.5	3911.3	3996.0	4327.5	4559.5	4515.3
30°	6102.7	6121.1	6010.6	5561.3	5097.2	4519.0	4239.1	4275.9	4530.1	4828.4	4728.9
32.5°	6905.6	6861.4	6798.8	6404.7	5855.9	5237.2	4758.4	4699.5	4810.0	5204.0	5086.2
35°	7653.2	7627.4	7542.7	7145.0	6666.2	5992.2	5524.5	5391.9	5366.1	5804.4	5598.1
37.5°	8305.1	8260.9	8132.0	7877.9	7413.8	6846.6	6334.7	6216.9	6213.2	6515.2	6117.4
40°	8853.9	8887.0	8872.3	8592.4	8338.2	7885.2	7100.8	6912.9	6898.2	7060.3	6828.2
42.5°	9564.7	9642.0	9601.5	9546.3	9240.6	9063.8	8176.2	7888.9	7760.0	8091.5	7881.6
45°	10640.1	10669.6	10695.3	10559.1	10253.4	10290.2	9288.5	8945.9	8912.8	9406.3	8934.9
47.5°	11645.6	11568.2	11748.7	11756.0	11741.3	11571.9	10489.1	10235.0	10279.2	10654.8	10168.7
50°	11896.0	12094.9	12592.1	12684.2	12923.5	13078.2	11822.3	11568.2	11641.9	12069.1	11513.0
52.5°	12091.2	12393.2	12890.4	13564.4	14208.9	14577.2	13313.9	13107.7	13104.0	13365.5	12599.4
55°	12433.7	12617.9	13048.8	13976.9	15203.3	15807.3	15111.2	14779.8	14481.4	14665.6	13726.4
57.5°	12400.6	12470.5	13140.8	14286.2	15991.5	17089.0	16588.1	16271.4	15888.3	15781.5	15022.8
60°	11818.7	11984.4	12735.7	14076.3	16477.6	18087.1	17965.5	17641.4	16982.2	16731.7	16017.2
62.5°	10665.9	10886.9	11476.1	13339.7	15770.5	18138.6	18915.7	18794.2	18057.6	17608.3	17313.6
65°	8643.9	8747.1	9424.7	11468.8	14172.1	17346.8	20039.0	19888.0	19210.4	18540.1	17980.3
67.5°	5598.1	5697.6	6349.4	8187.2	11129.9	15302.7	19994.9	20411.0	19678.1	18871.5	17564.1
70°	2644.4	2618.6	3226.3	4548.5	7130.2	11686.1	18643.2	19464.5	18842.1	17107.4	14588.2
72.5°	806.6	876.5	1340.6	2014.6	3660.9	7288.6	14614.0	15383.8	15188.6	13667.5	9737.8
75°	357.2	386.7	526.7	825.0	1484.2	2990.6	9027.0	9712.0	9627.3	8062.0	4445.3
77.5°	228.3	250.4	331.5	471.4	674.0	950.2	4158.1	4824.7	4677.4	2832.2	1163.8
80°	162.1	173.1	235.7	324.1	423.5	390.4	1432.7	1701.5	1631.6	769.7	313.1
82.5°	88.4	95.8	173.1	239.4	283.6	198.9	401.4	500.9	523.0	342.5	151.0
85°	33.1	40.5	106.8	169.4	147.3	92.1	117.9	143.6	187.8	187.8	70.0
87.5°	0.0	3.7	44.2	73.7	36.8	25.8	33.1	40.5	51.6	88.4	25.8
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°	2924.3	2924.3	2924.3	2924.3	2924.3	2924.3	2924.3	2924.3	2924.3	2924.3	2924.3
2.5°	2957.4	2931.6	2942.7	2961.1	2920.6	2942.7	2898.5	2931.6	2942.7	2898.5	2920.6
5°	2994.3	3020.0	3005.3	2975.8	2950.1	2957.4	2946.4	2920.6	2942.7	2950.1	2935.3
7.5°	3101.1	3071.6	3079.0	3045.8	2994.3	2990.6	2920.6	2902.2	2909.5	2916.9	2891.1
10°	3200.5	3218.9	3182.1	3156.3	3071.6	3016.4	2920.6	2817.5	2806.4	2762.2	2799.1
12.5°	3377.3	3333.1	3318.4	3233.6	3148.9	2964.8	2758.5	2600.2	2467.6	2419.7	2371.8
15°	3524.6	3517.2	3491.5	3362.6	3167.4	2832.2	2441.8	2073.5	1819.4	1661.0	1638.9
17.5°	3727.2	3694.0	3646.1	3443.6	3031.1	2486.0	1819.4	1355.3	1101.2	1001.8	964.9
20°	3881.9	3856.1	3789.8	3425.2	2784.3	1852.5	1127.0	861.8	799.2	780.8	784.5
22.5°	4106.5	4025.5	3900.3	3333.1	2335.0	1233.8	810.3	769.7	758.7	744.0	747.6
25°	4301.7	4228.1	3966.6	3174.7	1664.7	817.6	751.3	729.2	710.8	692.4	688.7
27.5°	4474.8	4382.7	4036.5	2850.6	1042.3	703.4	696.1	670.3	633.5	604.0	593.0
30°	4644.2	4537.4	4055.0	2242.9	703.4	637.2	618.7	578.2	530.3	489.8	482.5
32.5°	4927.8	4798.9	4029.2	1602.1	607.7	567.2	526.7	478.8	408.8	375.7	368.3
35°	5369.8	5174.6	3996.0	942.8	545.1	500.9	438.3	375.7	324.1	291.0	283.6
37.5°	5878.0	5539.2	3900.3	629.8	500.9	442.0	360.9	298.3	254.1	228.3	221.0
40°	6633.0	6073.2	3532.0	515.6	445.6	375.7	291.0	235.7	202.6	184.1	176.8
42.5°	7465.4	6684.6	2964.8	464.1	394.1	320.4	232.0	191.5	165.7	147.3	147.3
45°	8463.5	7321.7	2287.1	423.5	349.9	265.2	191.5	154.7	132.6	117.9	110.5
47.5°	9575.7	7900.0	1543.2	383.0	294.6	217.3	158.4	117.9	95.8	84.7	84.7
50°	10570.1	8411.9	983.4	335.2	257.8	180.5	128.9	95.8	77.3	62.6	58.9
52.5°	11472.5	8802.3	677.7	294.6	221.0	147.3	106.8	77.3	58.9	47.9	47.9
55°	12396.9	9001.2	500.9	254.1	191.5	125.2	88.4	70.0	51.6	40.5	36.8
57.5°	13155.6	9085.9	383.0	221.0	162.1	99.4	77.3	58.9	44.2	33.1	29.5
60°	13803.8	9045.4	298.3	184.1	128.9	84.7	66.3	47.9	36.8	25.8	22.1
62.5°	14183.1	8802.3	235.7	158.4	103.1	73.7	55.2	40.5	25.8	18.4	14.7
65°	14190.5	8286.7	184.1	117.9	77.3	62.6	47.9	33.1	18.4	7.4	3.7
67.5°	13174.0	7170.7	147.3	92.1	62.6	47.9	36.8	25.8	7.4	0.0	0.0
70°	10305.0	5425.0	121.5	73.7	51.6	40.5	25.8	14.7	3.7	0.0	0.0
72.5°	6566.7	3248.4	99.4	58.9	44.2	29.5	18.4	11.0	0.0	0.0	0.0
75°	2747.5	1001.8	77.3	51.6	33.1	22.1	14.7	3.7	0.0	0.0	0.0
77.5°	707.1	316.7	62.6	44.2	33.1	18.4	11.0	3.7	0.0	0.0	0.0
80°	209.9	117.9	51.6	36.8	25.8	14.7	7.4	3.7	0.0	0.0	0.0
82.5°	95.8	70.0	44.2	33.1	22.1	14.7	7.4	0.0	0.0	0.0	0.0
85°	36.8	22.1	22.1	18.4	18.4	11.0	3.7	0.0	0.0	0.0	0.0
87.5°	14.7	7.4	7.4	7.4	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)