

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: P482549

Luminaire Tested: **IFLD-L-SA7A-760-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482549
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-760-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (112) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

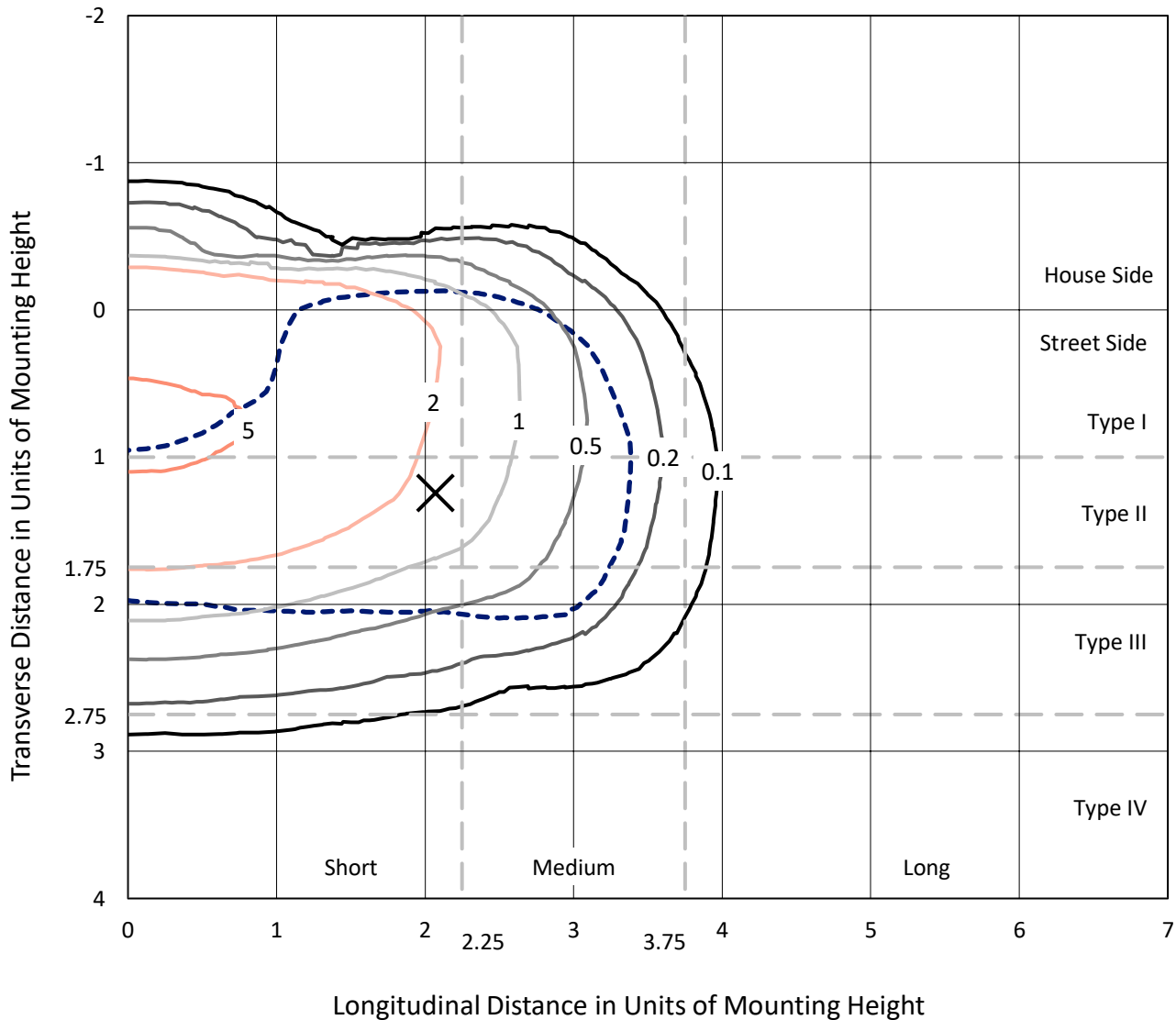
Lumens per Lamp: N/A
Luminaire Lumens: 23757.6 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 217.6
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

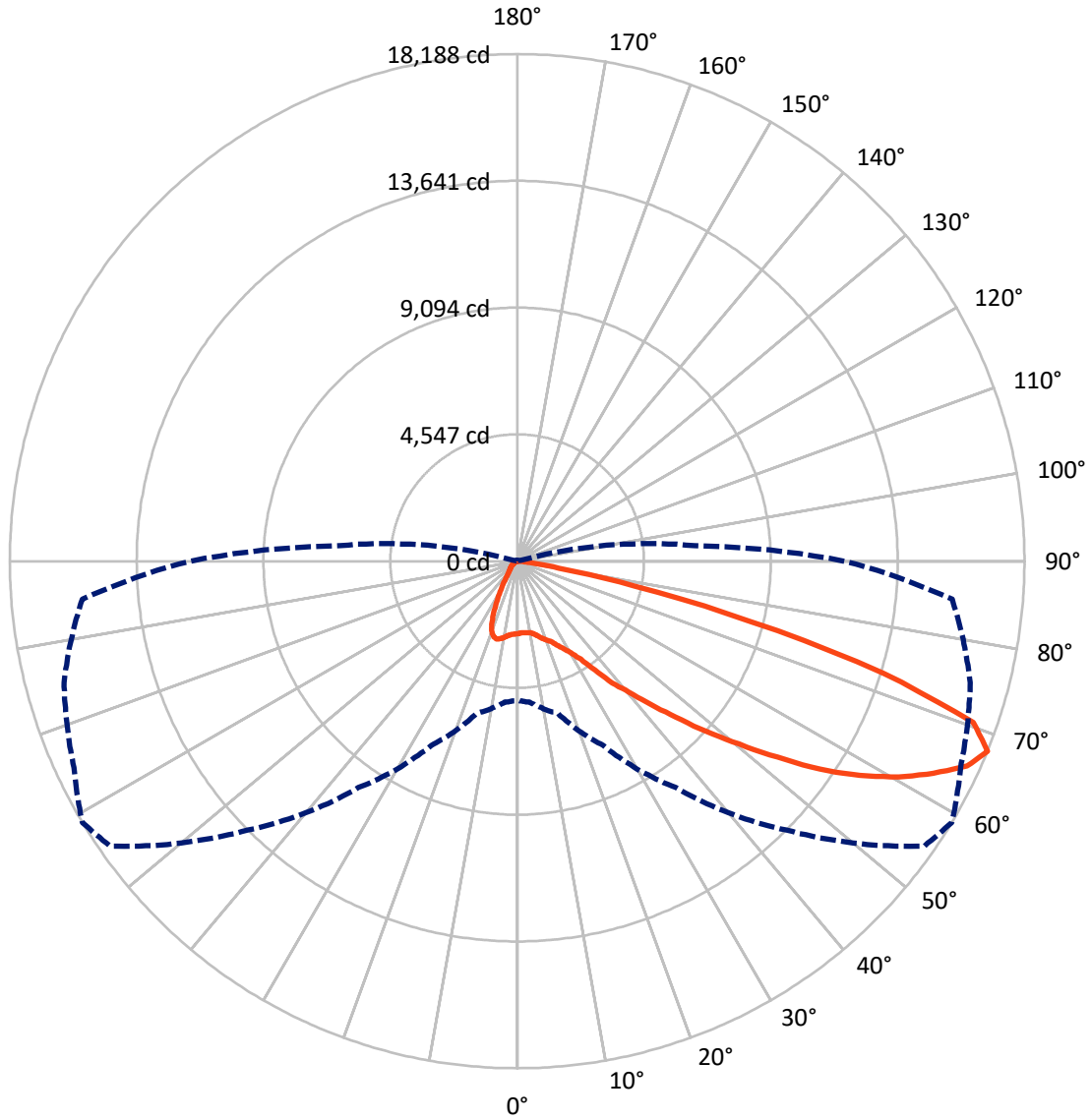
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	2790.7	0.0	2790.7
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	20966.9	0.0	20966.9
	% Fixture	88.3	0.0	88.3
Total	Lumens	23757.6	0.0	23757.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.5	1.0
10°-20°	715.0	3.0
20°-30°	1249.6	5.3
30°-40°	2200.1	9.3
40°-50°	3889.1	16.4
50°-60°	6157.8	25.9
60°-70°	6830.7	28.8
70°-80°	2370.1	10.0
80°-90°	97.6	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°	23757.6	100.0
0°-180°	23757.6	100.0

Coefficient of Utilization

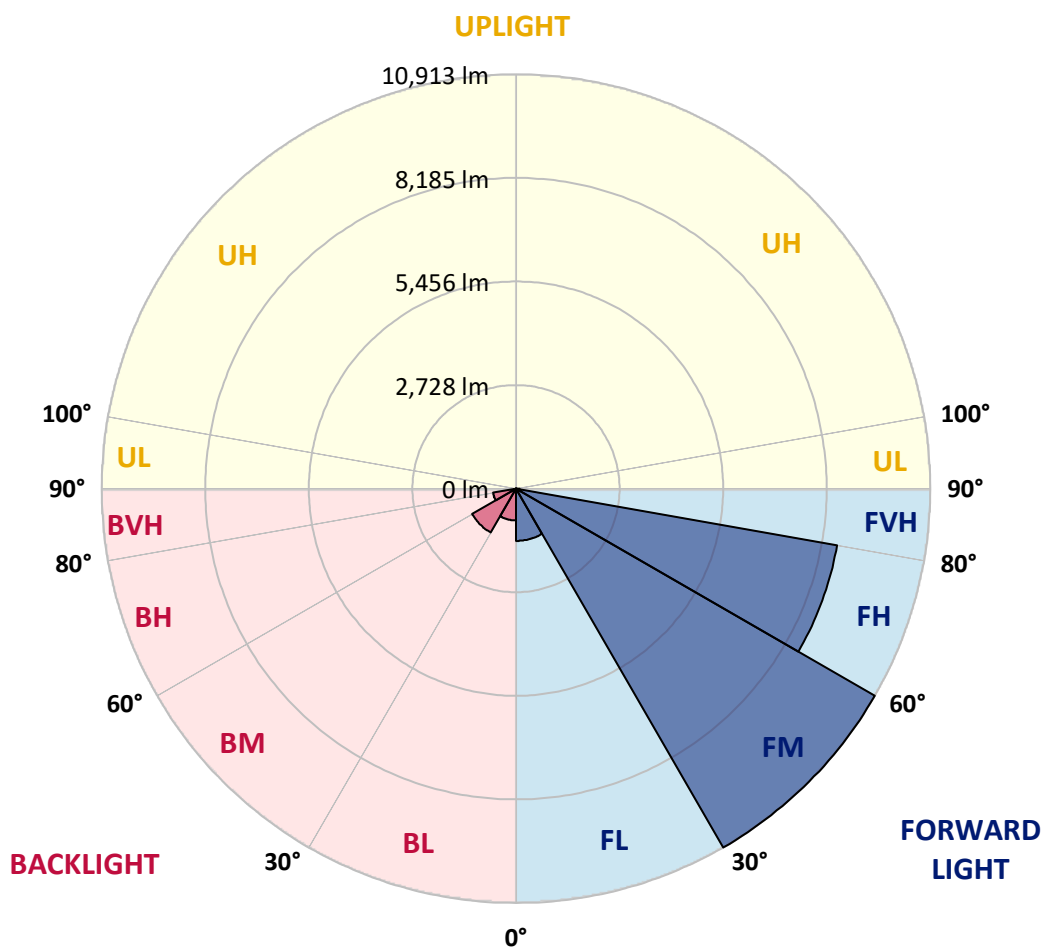


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1375.7	5.8			
FM (30°-60°)	10912.8	45.9			
FH (60°-80°)	8587.1	36.1			G4/12000
FVH (80°-90°)	91.3	0.4			G1/100
BL (0°-30°)	836.4	3.5	B2/1000		
BM (30°-60°)	1334.3	5.6	B2/2500		
BH (60°-80°)	613.7	2.6	B2/1000		G2/1000
BVH (80°-90°)	6.3	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°	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8
2.5°	2530.3	2494.2	2527.0	2530.3	2533.6	2563.1	2595.9	2573.0	2569.7	2595.9	2618.9
5°	2428.6	2412.2	2451.5	2471.2	2504.0	2530.3	2582.8	2586.1	2589.4	2618.9	2658.3
7.5°	2385.9	2346.5	2392.5	2415.4	2438.4	2500.8	2563.1	2595.9	2641.9	2678.0	2717.4
10°	2300.6	2330.1	2343.2	2382.6	2448.3	2520.5	2595.9	2612.3	2714.1	2743.6	2838.8
12.5°	2330.1	2349.8	2376.1	2385.9	2458.1	2566.4	2668.1	2674.7	2779.7	2907.7	2956.9
15°	2405.6	2392.5	2402.3	2415.4	2500.8	2589.4	2753.5	2783.0	2881.5	3025.9	3147.3
17.5°	2566.4	2543.4	2527.0	2523.7	2543.4	2625.5	2819.1	2907.7	2999.6	3196.5	3258.9
20°	2970.1	2950.4	2884.7	2714.1	2655.0	2687.8	2897.9	3022.6	3150.6	3370.5	3472.2
22.5°	3583.8	3603.5	3449.2	3209.6	2963.5	2835.5	3022.6	3130.9	3334.4	3613.3	3705.2
25°	4309.1	4269.7	4082.6	3803.7	3416.4	3114.5	3222.8	3344.2	3593.6	3823.3	3859.4
27.5°	4876.8	4830.9	4686.5	4348.4	4013.7	3524.7	3485.3	3560.8	3856.2	4062.9	4023.5
30°	5438.0	5454.4	5356.0	4955.6	4542.1	4026.8	3777.4	3810.2	4036.7	4302.5	4213.9
32.5°	6153.5	6114.1	6058.3	5707.1	5218.1	4666.8	4240.1	4187.6	4286.1	4637.2	4532.2
35°	6819.7	6796.7	6721.2	6366.8	5940.1	5339.6	4922.8	4804.6	4781.6	5172.2	4988.4
37.5°	7400.6	7361.2	7246.3	7019.9	6606.4	6100.9	5644.8	5539.8	5536.5	5805.6	5451.1
40°	7889.6	7919.1	7906.0	7656.5	7430.1	7026.4	6327.4	6160.0	6146.9	6291.3	6084.5
42.5°	8522.9	8591.9	8555.8	8506.5	8234.1	8076.6	7285.7	7029.7	6914.8	7210.2	7023.1
45°	9481.2	9507.5	9530.5	9409.0	9136.7	9169.5	8276.8	7971.6	7942.1	8381.8	7961.8
47.5°	10377.2	10308.3	10469.1	10475.6	10462.5	10311.6	9346.7	9120.2	9159.6	9494.4	9061.2
50°	10600.4	10777.6	11220.6	11302.7	11516.0	11653.8	10534.7	10308.3	10373.9	10754.6	10259.0
52.5°	10774.3	11043.4	11486.5	12087.0	12661.4	12989.5	11863.9	11680.1	11676.8	11909.8	11227.2
55°	11079.5	11243.6	11627.6	12454.6	13547.5	14085.7	13465.4	13170.0	12904.2	13068.3	12231.4
57.5°	11050.0	11112.3	11709.6	12730.3	14249.8	15227.8	14781.4	14499.2	14157.9	14062.7	13386.6
60°	10531.4	10679.1	11348.6	12543.2	14683.0	16117.1	16008.8	15720.0	15132.6	14909.4	14272.7
62.5°	9504.2	9701.1	10226.2	11886.8	14052.9	16163.1	16855.5	16747.2	16090.9	15690.5	15427.9
65°	7702.5	7794.4	8398.2	10219.7	12628.5	15457.5	17856.5	17722.0	17118.1	16520.8	16022.0
67.5°	4988.4	5077.0	5657.9	7295.5	9917.7	13636.1	17817.1	18188.0	17534.9	16816.2	15651.1
70°	2356.4	2333.4	2874.9	4053.1	6353.6	10413.3	16612.7	17344.5	16789.9	15244.2	12999.4
72.5°	718.7	781.1	1194.6	1795.2	3262.2	6494.8	13022.4	13708.3	13534.3	12178.9	8677.2
75°	318.3	344.6	469.3	735.1	1322.6	2664.9	8043.8	8654.2	8578.7	7184.0	3961.2
77.5°	203.5	223.2	295.4	420.1	600.6	846.7	3705.2	4299.2	4167.9	2523.7	1037.1
80°	144.4	154.2	210.0	288.8	377.4	347.9	1276.6	1516.2	1453.9	685.9	279.0
82.5°	78.8	85.3	154.2	213.3	252.7	177.2	357.7	446.3	466.0	305.2	134.6
85°	29.5	36.1	95.2	151.0	131.3	82.0	105.0	128.0	167.4	167.4	62.4
87.5°	0.0	3.3	39.4	65.6	32.8	23.0	29.5	36.1	45.9	78.8	23.0
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°	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8
2.5°	2635.3	2612.3	2622.2	2638.6	2602.5	2622.2	2582.8	2612.3	2622.2	2582.8	2602.5
5°	2668.1	2691.1	2678.0	2651.7	2628.8	2635.3	2625.5	2602.5	2622.2	2628.8	2615.6
7.5°	2763.3	2737.1	2743.6	2714.1	2668.1	2664.9	2602.5	2586.1	2592.7	2599.2	2576.2
10°	2851.9	2868.3	2835.5	2812.5	2737.1	2687.8	2602.5	2510.6	2500.8	2461.4	2494.2
12.5°	3009.5	2970.1	2956.9	2881.5	2806.0	2641.9	2458.1	2317.0	2198.8	2156.2	2113.5
15°	3140.7	3134.2	3111.2	2996.3	2822.4	2523.7	2175.9	1847.7	1621.2	1480.1	1460.4
17.5°	3321.2	3291.7	3249.0	3068.5	2701.0	2215.2	1621.2	1207.7	981.3	892.7	859.8
20°	3459.1	3436.1	3377.0	3052.1	2481.1	1650.8	1004.2	768.0	712.2	695.8	699.0
22.5°	3659.3	3587.1	3475.5	2970.1	2080.7	1099.4	722.0	685.9	676.1	662.9	666.2
25°	3833.2	3767.6	3534.5	2828.9	1483.4	728.6	669.5	649.8	633.4	617.0	613.7
27.5°	3987.4	3905.4	3596.9	2540.1	928.8	626.8	620.3	597.3	564.5	538.2	528.4
30°	4138.4	4043.2	3613.3	1998.6	626.8	567.8	551.3	515.2	472.6	436.5	429.9
32.5°	4391.1	4276.2	3590.3	1427.6	541.5	505.4	469.3	426.6	364.3	334.7	328.2
35°	4784.9	4611.0	3560.8	840.2	485.7	446.3	390.5	334.7	288.8	259.3	252.7
37.5°	5237.8	4935.9	3475.5	561.2	446.3	393.8	321.6	265.8	226.4	203.5	196.9
40°	5910.6	5411.8	3147.3	459.5	397.1	334.7	259.3	210.0	180.5	164.1	157.5
42.5°	6652.3	5956.5	2641.9	413.5	351.2	285.5	206.8	170.7	147.7	131.3	131.3
45°	7541.7	6524.3	2038.0	377.4	311.8	236.3	170.7	137.8	118.1	105.0	98.5
47.5°	8532.8	7039.6	1375.1	341.3	262.5	193.6	141.1	105.0	85.3	75.5	75.5
50°	9418.9	7495.7	876.3	298.6	229.7	160.8	114.9	85.3	68.9	55.8	52.5
52.5°	10222.9	7843.6	603.9	262.5	196.9	131.3	95.2	68.9	52.5	42.7	42.7
55°	11046.7	8020.8	446.3	226.4	170.7	111.6	78.8	62.4	45.9	36.1	32.8
57.5°	11722.7	8096.3	341.3	196.9	144.4	88.6	68.9	52.5	39.4	29.5	26.3
60°	12300.3	8060.2	265.8	164.1	114.9	75.5	59.1	42.7	32.8	23.0	19.7
62.5°	12638.4	7843.6	210.0	141.1	91.9	65.6	49.2	36.1	23.0	16.4	13.1
65°	12644.9	7384.1	164.1	105.0	68.9	55.8	42.7	29.5	16.4	6.6	3.3
67.5°	11739.2	6389.7	131.3	82.0	55.8	42.7	32.8	23.0	6.6	0.0	0.0
70°	9182.6	4834.2	108.3	65.6	45.9	36.1	23.0	13.1	3.3	0.0	0.0
72.5°	5851.5	2894.6	88.6	52.5	39.4	26.3	16.4	9.8	0.0	0.0	0.0
75°	2448.3	892.7	68.9	45.9	29.5	19.7	13.1	3.3	0.0	0.0	0.0
77.5°	630.1	282.2	55.8	39.4	29.5	16.4	9.8	3.3	0.0	0.0	0.0
80°	187.1	105.0	45.9	32.8	23.0	13.1	6.6	3.3	0.0	0.0	0.0
82.5°	85.3	62.4	39.4	29.5	19.7	13.1	6.6	0.0	0.0	0.0	0.0
85°	32.8	19.7	19.7	16.4	16.4	9.8	3.3	0.0	0.0	0.0	0.0
87.5°	13.1	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)