

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: P482508

Luminaire Tested: **IFLD-M-SA4D-750-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482508
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-750-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

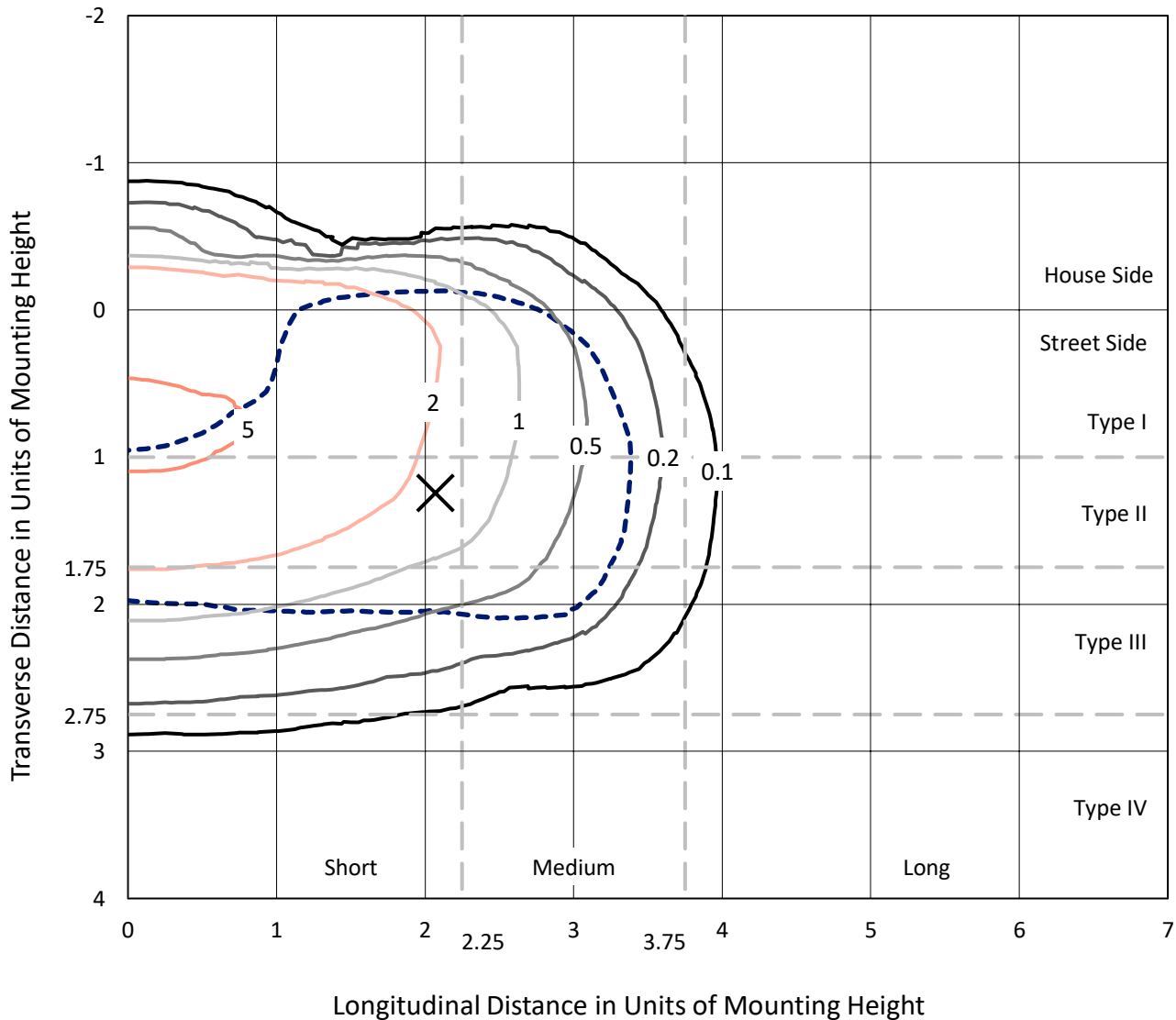
Lumens per Lamp: N/A
Luminaire Lumens: 23745 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 249.7
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

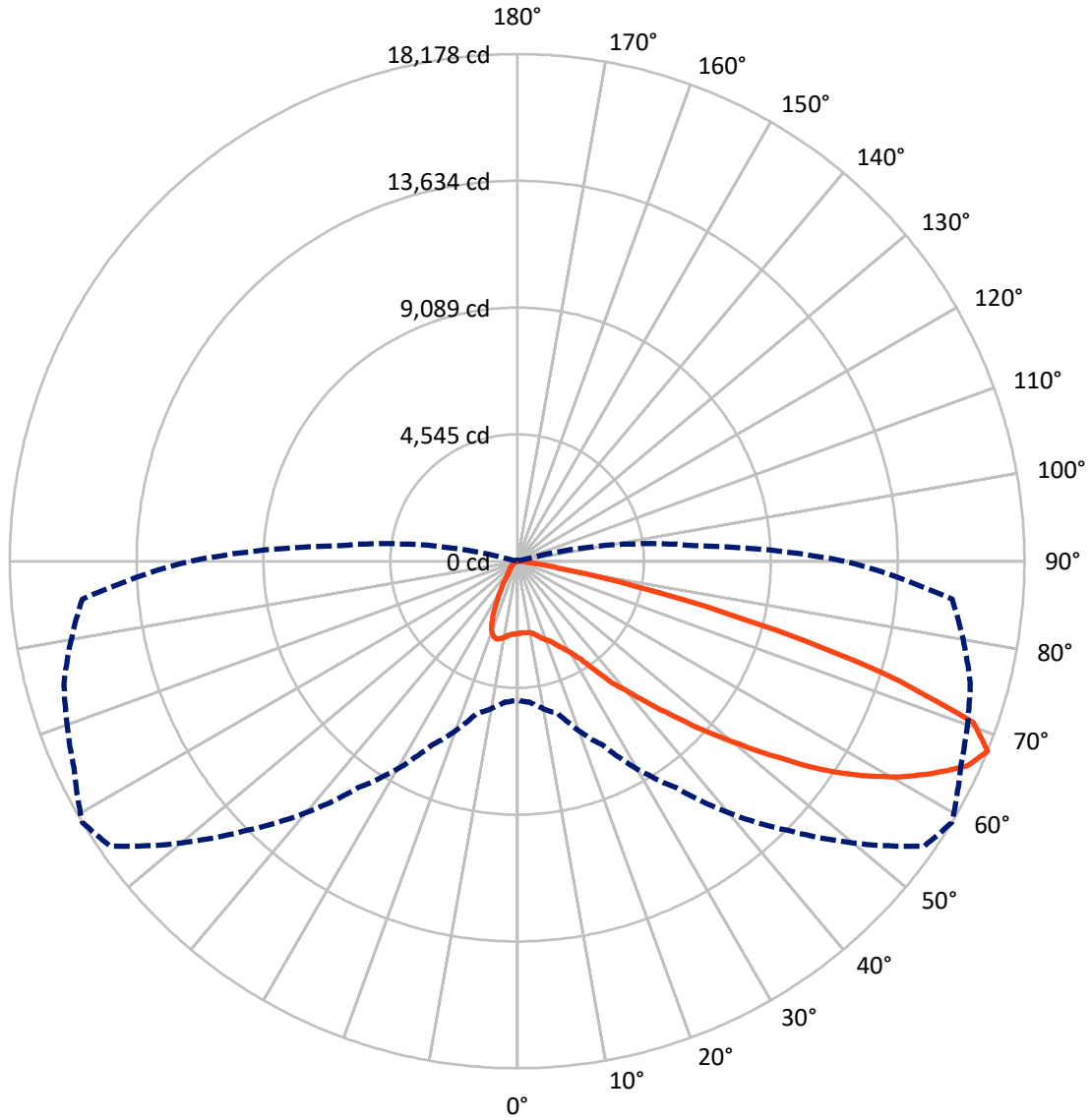
✕ Max cd
 - - - 1/2 Max cd



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	2789.3	0.0	2789.3
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	20955.8	0.0	20955.8
	% Fixture	88.3	0.0	88.3
Total	Lumens	23745.0	0.0	23745.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.4	1.0
10°-20°	714.6	3.0
20°-30°	1249.0	5.3
30°-40°	2198.9	9.3
40°-50°	3887.0	16.4
50°-60°	6154.6	25.9
60°-70°	6827.1	28.8
70°-80°	2368.9	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°	23745.0	100.0
0°-180°	23745.0	100.0

Coefficient of Utilization

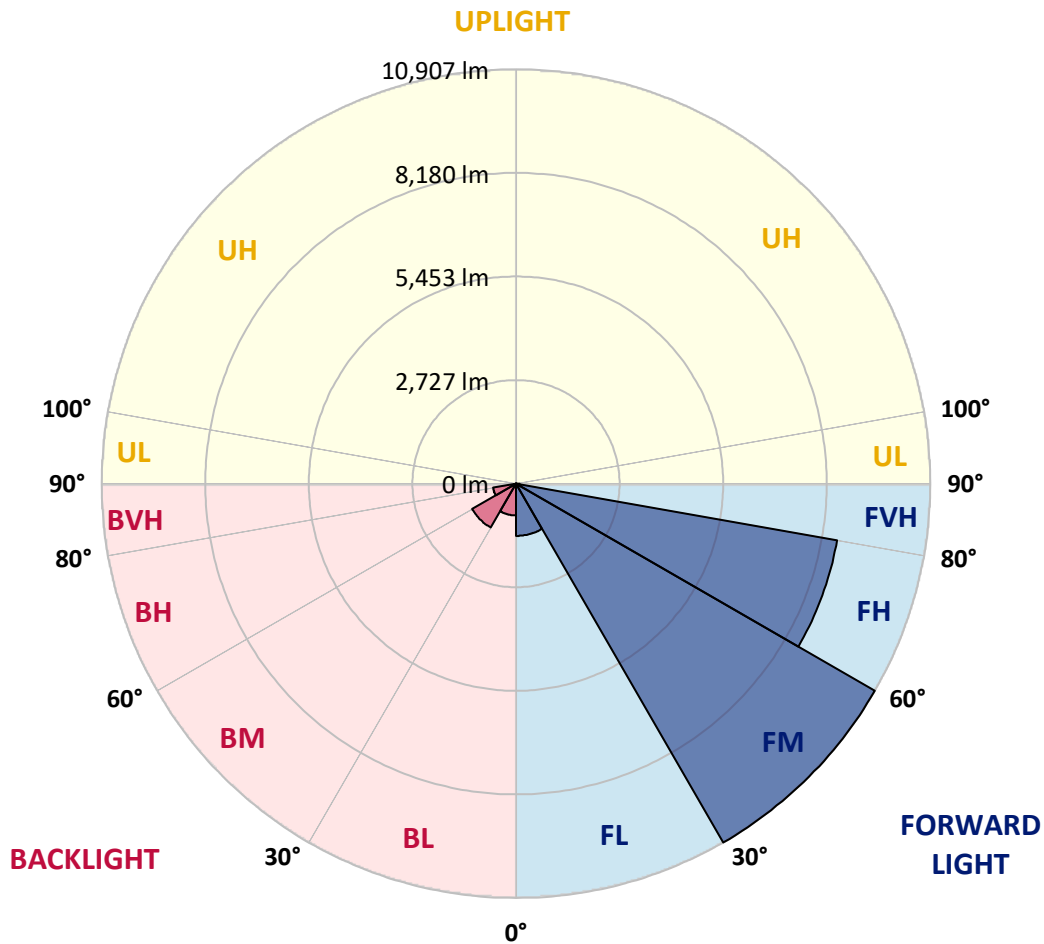


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1375.0	5.8			
FM (30°-60°)	10907.0	45.9			
FH (60°-80°)	8582.5	36.1			G4/12000
FVH (80°-90°)	91.2	0.4			G1/100
BL (0°-30°)	836.0	3.5	B2/1000		
BM (30°-60°)	1333.6	5.6	B2/2500		
BH (60°-80°)	613.4	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°	2604.4	2604.4	2604.4	2604.4	2604.4	2604.4	2604.4	2604.4	2604.4	2604.4	2604.4
2.5°	2529.0	2492.9	2525.7	2529.0	2532.2	2561.8	2594.6	2571.6	2568.3	2594.6	2617.5
5°	2427.3	2410.9	2450.2	2469.9	2502.7	2529.0	2581.4	2584.7	2588.0	2617.5	2656.9
7.5°	2384.6	2345.3	2391.2	2414.2	2437.1	2499.4	2561.8	2594.6	2640.5	2676.6	2715.9
10°	2299.4	2328.9	2342.0	2381.4	2447.0	2519.1	2594.6	2611.0	2712.6	2742.2	2837.3
12.5°	2328.9	2348.6	2374.8	2384.6	2456.8	2565.0	2666.7	2673.3	2778.2	2906.2	2955.4
15°	2404.3	2391.2	2401.0	2414.2	2499.4	2588.0	2752.0	2781.5	2879.9	3024.3	3145.6
17.5°	2565.0	2542.1	2525.7	2522.4	2542.1	2624.1	2817.6	2906.2	2998.0	3194.8	3257.1
20°	2968.5	2948.8	2883.2	2712.6	2653.6	2686.4	2896.3	3021.0	3148.9	3368.7	3470.3
22.5°	3581.9	3601.6	3447.4	3207.9	2961.9	2834.0	3021.0	3129.2	3332.6	3611.4	3703.2
25°	4306.8	4267.4	4080.4	3801.6	3414.6	3112.8	3221.1	3342.4	3591.7	3821.3	3857.4
27.5°	4874.2	4828.3	4684.0	4346.1	4011.6	3522.8	3483.5	3558.9	3854.1	4060.8	4021.4
30°	5435.1	5451.5	5353.1	4953.0	4539.7	4024.7	3775.4	3808.2	4034.5	4300.2	4211.7
32.5°	6150.2	6110.8	6055.1	5704.1	5215.4	4664.3	4237.9	4185.4	4283.8	4634.8	4529.8
35°	6816.1	6793.1	6717.7	6363.4	5937.0	5336.7	4920.2	4802.1	4779.1	5169.4	4985.8
37.5°	7396.6	7357.3	7242.5	7016.1	6602.8	6097.7	5641.8	5536.8	5533.5	5802.5	5448.3
40°	7885.4	7914.9	7901.8	7652.5	7426.2	7022.7	6324.0	6156.8	6143.6	6288.0	6081.3
42.5°	8518.4	8587.3	8551.2	8502.0	8229.8	8072.3	7281.8	7026.0	6911.2	7206.4	7019.4
45°	9476.2	9502.5	9525.4	9404.1	9131.8	9164.6	8272.4	7967.4	7937.9	8377.4	7957.5
47.5°	10371.7	10302.8	10463.5	10470.1	10457.0	10306.1	9341.7	9115.4	9154.8	9489.3	9056.4
50°	10594.7	10771.9	11214.7	11296.7	11509.9	11647.6	10529.1	10302.8	10368.4	10748.9	10253.6
52.5°	10768.6	11037.5	11480.4	12080.6	12654.6	12982.7	11857.6	11673.9	11670.6	11903.5	11221.2
55°	11073.6	11237.6	11621.4	12448.0	13540.3	14078.2	13458.3	13163.1	12897.4	13061.4	12224.9
57.5°	11044.1	11106.4	11703.4	12723.5	14242.2	15219.7	14773.6	14491.5	14150.4	14055.2	13379.5
60°	10525.9	10673.5	11342.6	12536.6	14675.2	16108.6	16000.3	15711.7	15124.6	14901.5	14265.2
62.5°	9499.2	9696.0	10220.8	11880.5	14045.4	16154.5	16846.6	16738.4	16082.3	15682.2	15419.8
65°	7698.4	7790.2	8393.8	10214.2	12621.8	15449.3	17847.0	17712.6	17109.0	16512.0	16013.5
67.5°	4985.8	5074.3	5654.9	7291.7	9912.5	13628.8	17807.7	18178.3	17525.6	16807.3	15642.8
70°	2355.1	2332.2	2873.4	4050.9	6350.3	10407.8	16603.9	17335.3	16781.0	15236.1	12992.5
72.5°	718.3	780.7	1194.0	1794.2	3260.4	6491.3	13015.5	13701.0	13527.1	12172.5	8672.6
75°	318.2	344.4	469.1	734.7	1321.9	2663.4	8039.5	8649.6	8574.2	7180.1	3959.1
77.5°	203.4	223.0	295.2	419.9	600.3	846.3	3703.2	4296.9	4165.7	2522.4	1036.5
80°	144.3	154.2	209.9	288.6	377.2	347.7	1276.0	1515.4	1453.1	685.5	278.8
82.5°	78.7	85.3	154.2	213.2	252.6	177.1	357.5	446.1	465.8	305.0	134.5
85°	29.5	36.1	95.1	150.9	131.2	82.0	105.0	127.9	167.3	167.3	62.3
87.5°	0.0	3.3	39.4	65.6	32.8	23.0	29.5	36.1	45.9	78.7	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°	2604.4	2604.4	2604.4	2604.4	2604.4	2604.4	2604.4	2604.4	2604.4	2604.4	2604.4
2.5°	2633.9	2611.0	2620.8	2637.2	2601.1	2620.8	2581.4	2611.0	2620.8	2581.4	2601.1
5°	2666.7	2689.7	2676.6	2650.3	2627.4	2633.9	2624.1	2601.1	2620.8	2627.4	2614.2
7.5°	2761.8	2735.6	2742.2	2712.6	2666.7	2663.4	2601.1	2584.7	2591.3	2597.8	2574.9
10°	2850.4	2866.8	2834.0	2811.0	2735.6	2686.4	2601.1	2509.3	2499.4	2460.1	2492.9
12.5°	3007.9	2968.5	2955.4	2879.9	2804.5	2640.5	2456.8	2315.8	2197.7	2155.0	2112.4
15°	3139.1	3132.5	3109.5	2994.7	2820.9	2522.4	2174.7	1846.7	1620.4	1479.3	1459.6
17.5°	3319.5	3289.9	3247.3	3066.9	2699.5	2214.1	1620.4	1207.1	980.8	892.2	859.4
20°	3457.2	3434.3	3375.2	3050.5	2479.8	1649.9	1003.7	767.5	711.8	695.4	698.7
22.5°	3657.3	3585.2	3473.6	2968.5	2079.6	1098.8	721.6	685.5	675.7	662.6	665.9
25°	3831.2	3765.6	3532.7	2827.4	1482.6	728.2	669.1	649.5	633.1	616.7	613.4
27.5°	3985.3	3903.3	3595.0	2538.8	928.3	626.5	619.9	597.0	564.2	537.9	528.1
30°	4136.2	4041.1	3611.4	1997.6	626.5	567.5	551.1	515.0	472.3	436.3	429.7
32.5°	4388.8	4274.0	3588.4	1426.8	541.2	505.1	469.1	426.4	364.1	334.6	328.0
35°	4782.4	4608.5	3558.9	839.7	485.5	446.1	390.3	334.6	288.6	259.1	252.6
37.5°	5235.0	4933.3	3473.6	560.9	446.1	393.6	321.5	265.7	226.3	203.4	196.8
40°	5907.5	5408.9	3145.6	459.2	396.9	334.6	259.1	209.9	180.4	164.0	157.4
42.5°	6648.8	5953.4	2640.5	413.3	351.0	285.4	206.6	170.6	147.6	131.2	131.2
45°	7537.7	6520.8	2036.9	377.2	311.6	236.2	170.6	137.8	118.1	105.0	98.4
47.5°	8528.3	7035.8	1374.4	341.1	262.4	193.5	141.0	105.0	85.3	75.4	75.4
50°	9413.9	7491.8	875.8	298.5	229.6	160.7	114.8	85.3	68.9	55.8	52.5
52.5°	10217.5	7839.4	603.5	262.4	196.8	131.2	95.1	68.9	52.5	42.6	42.6
55°	11040.8	8016.6	446.1	226.3	170.6	111.5	78.7	62.3	45.9	36.1	32.8
57.5°	11716.5	8092.0	341.1	196.8	144.3	88.6	68.9	52.5	39.4	29.5	26.2
60°	12293.8	8055.9	265.7	164.0	114.8	75.4	59.0	42.6	32.8	23.0	19.7
62.5°	12631.7	7839.4	209.9	141.0	91.8	65.6	49.2	36.1	23.0	16.4	13.1
65°	12638.2	7380.2	164.0	105.0	68.9	55.8	42.6	29.5	16.4	6.6	3.3
67.5°	11732.9	6386.4	131.2	82.0	55.8	42.6	32.8	23.0	6.6	0.0	0.0
70°	9177.7	4831.6	108.2	65.6	45.9	36.1	23.0	13.1	3.3	0.0	0.0
72.5°	5848.4	2893.1	88.6	52.5	39.4	26.2	16.4	9.8	0.0	0.0	0.0
75°	2447.0	892.2	68.9	45.9	29.5	19.7	13.1	3.3	0.0	0.0	0.0
77.5°	629.8	282.1	55.8	39.4	29.5	16.4	9.8	3.3	0.0	0.0	0.0
80°	187.0	105.0	45.9	32.8	23.0	13.1	6.6	3.3	0.0	0.0	0.0
82.5°	85.3	62.3	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)