

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: P482472

Luminaire Tested: **IFLD-L-SA7B-740-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482472
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-740-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

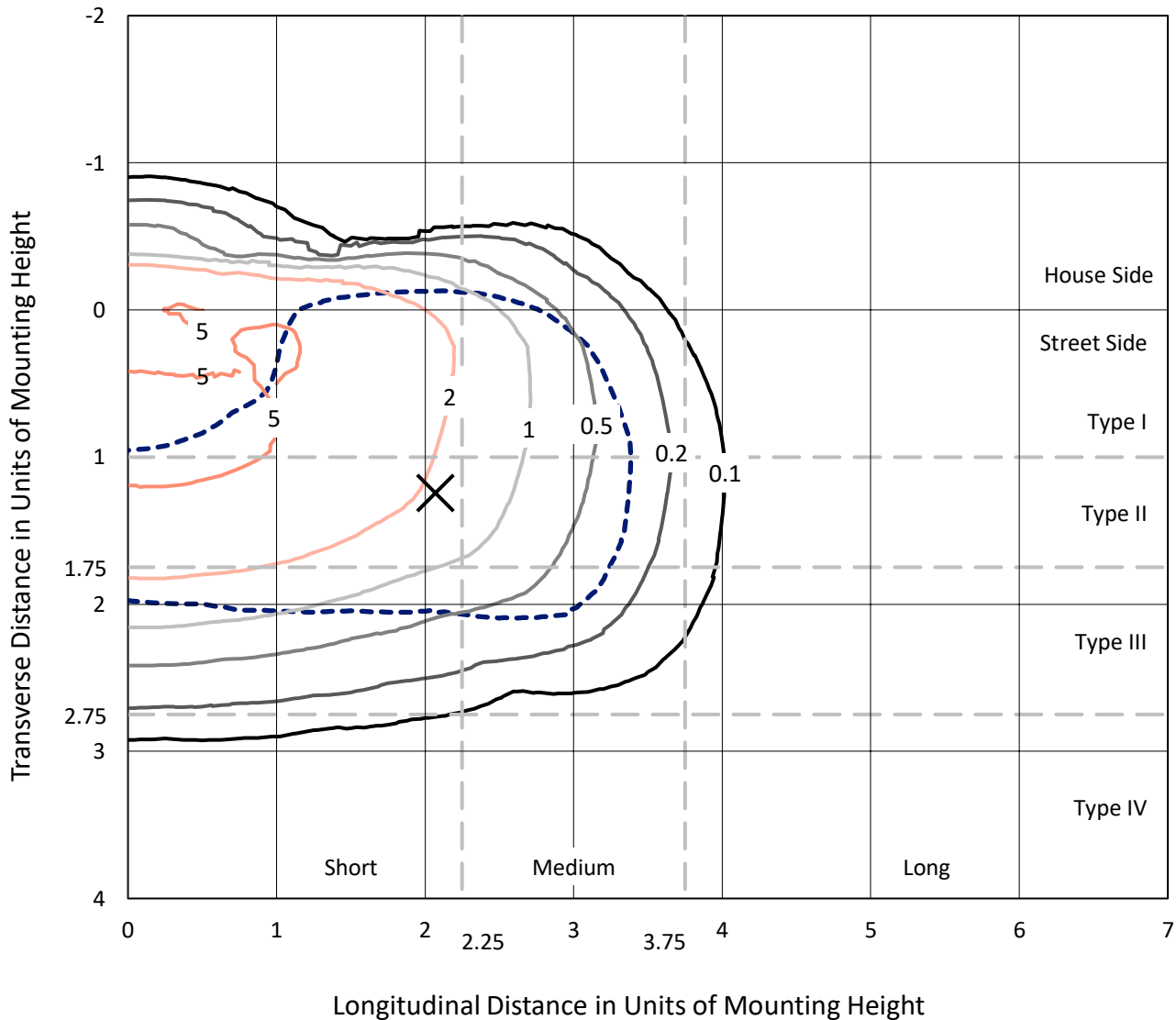
Lumens per Lamp: N/A
Luminaire Lumens: 26425.1 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 281
Input Voltage (V): 120
Input Current (A_{in}): 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

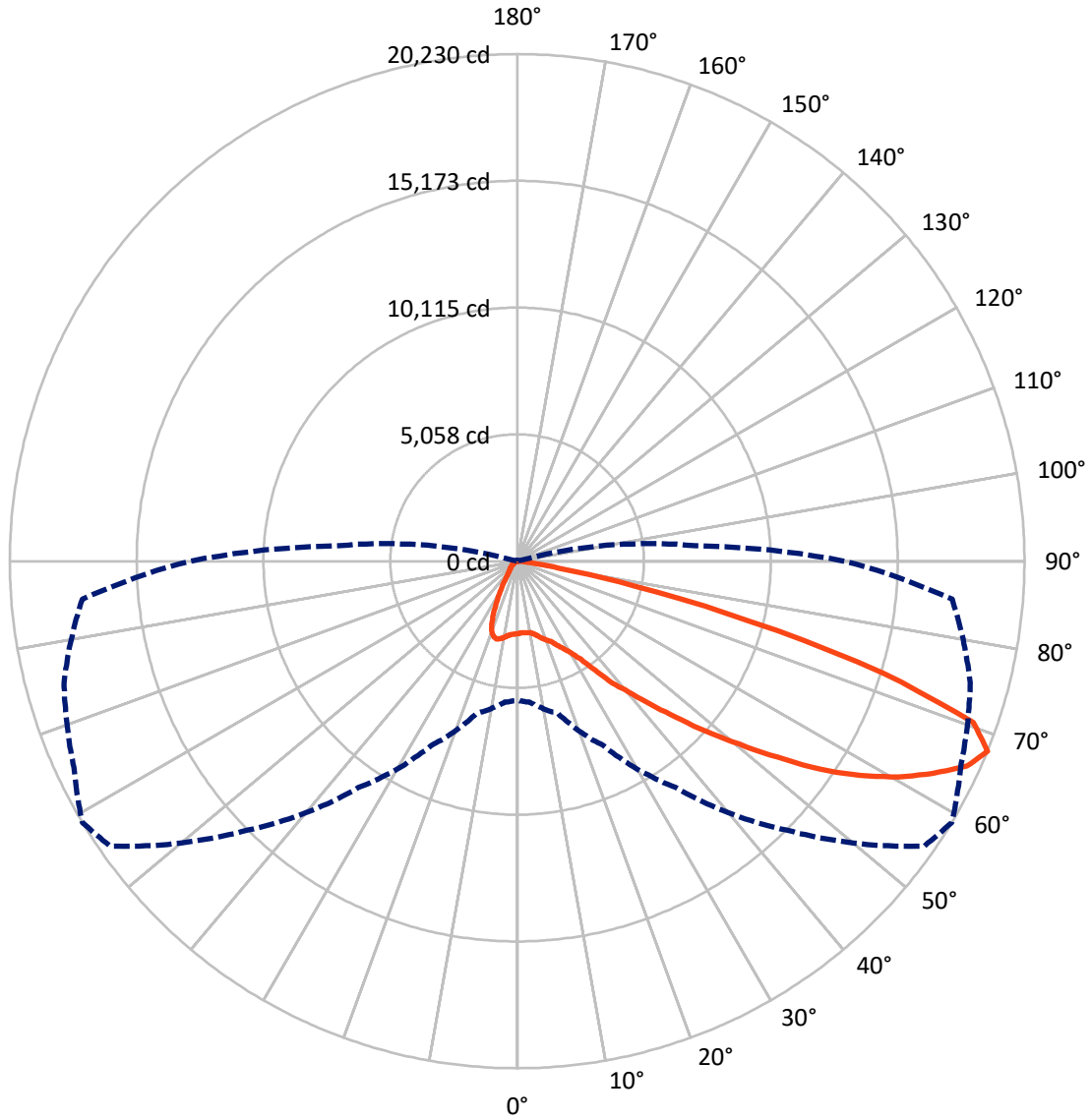
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	3104.1	0.0	3104.1
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	23321.0	0.0	23321.0
	% Fixture	88.3	0.0	88.3
Total	Lumens	26425.1	0.0	26425.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.3	1.0
10°-20°	795.3	3.0
20°-30°	1389.9	5.3
30°-40°	2447.1	9.3
40°-50°	4325.8	16.4
50°-60°	6849.2	25.9
60°-70°	7597.7	28.8
70°-80°	2636.2	10.0
80°-90°	108.6	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°	26425.1	100.0
0°-180°	26425.1	100.0

Coefficient of Utilization

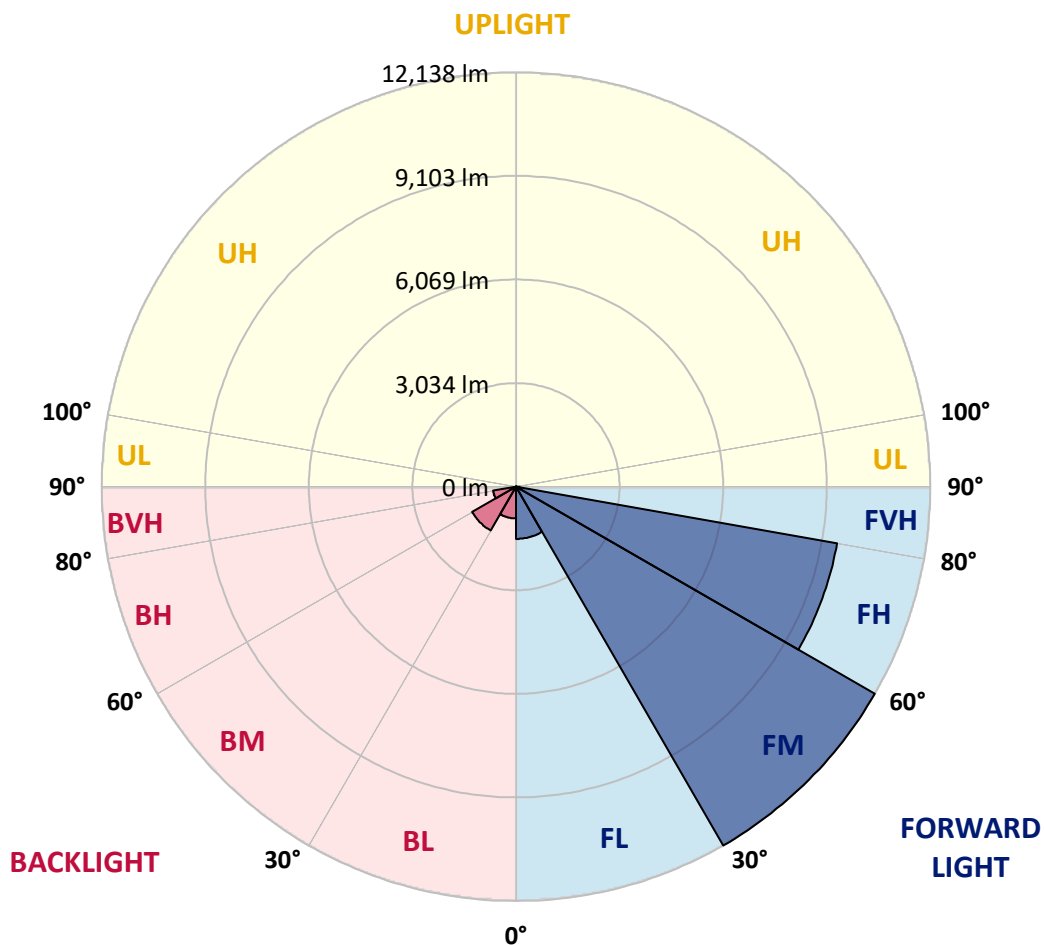


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1530.2	5.8			
FM (30°-60°)	12138.0	45.9			
FH (60°-80°)	9551.2	36.1			G4/12000
FVH (80°-90°)	101.5	0.4			G2/225
BL (0°-30°)	930.3	3.5	B2/1000		
BM (30°-60°)	1484.1	5.6	B2/2500		
BH (60°-80°)	682.7	2.6	B2/1000		G2/1000
BVH (80°-90°)	7.0	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°	2898.4	2898.4	2898.4	2898.4	2898.4	2898.4	2898.4	2898.4	2898.4	2898.4	2898.4
2.5°	2814.4	2774.2	2810.7	2814.4	2818.0	2850.9	2887.4	2861.8	2858.2	2887.4	2913.0
5°	2701.2	2683.0	2726.8	2748.7	2785.2	2814.4	2872.8	2876.4	2880.1	2913.0	2956.8
7.5°	2653.8	2610.0	2661.1	2686.6	2712.2	2781.5	2850.9	2887.4	2938.5	2978.7	3022.5
10°	2558.9	2591.7	2606.3	2650.1	2723.1	2803.4	2887.4	2905.7	3018.8	3051.7	3157.5
12.5°	2591.7	2613.6	2642.8	2653.8	2734.1	2854.5	2967.7	2975.0	3091.8	3234.2	3288.9
15°	2675.7	2661.1	2672.0	2686.6	2781.5	2880.1	3062.6	3095.5	3205.0	3365.6	3500.7
17.5°	2854.5	2829.0	2810.7	2807.1	2829.0	2920.3	3135.6	3234.2	3336.4	3555.4	3624.8
20°	3303.5	3281.6	3208.6	3018.8	2953.1	2989.6	3223.2	3361.9	3504.3	3748.9	3862.0
22.5°	3986.1	4008.0	3836.5	3570.0	3296.2	3153.9	3361.9	3482.4	3708.7	4019.0	4121.2
25°	4792.9	4749.1	4541.0	4230.7	3800.0	3464.1	3584.6	3719.7	3997.1	4252.6	4292.8
27.5°	5424.4	5373.3	5212.7	4836.7	4464.3	3920.4	3876.6	3960.6	4289.1	4519.1	4475.3
30°	6048.6	6066.8	5957.3	5512.0	5052.0	4478.9	4201.5	4238.0	4489.9	4785.6	4687.0
32.5°	6844.3	6800.5	6738.5	6347.9	5804.0	5190.7	4716.2	4657.8	4767.3	5157.9	5041.1
35°	7585.4	7559.8	7475.8	7081.6	6607.1	5939.1	5475.5	5344.1	5318.5	5752.9	5548.5
37.5°	8231.5	8187.7	8059.9	7808.0	7348.1	6785.9	6278.5	6161.7	6158.1	6457.4	6063.2
40°	8775.4	8808.2	8793.6	8516.2	8264.3	7815.3	7037.8	6851.6	6837.0	6997.7	6767.7
42.5°	9479.9	9556.5	9516.4	9461.6	9158.6	8983.4	8103.7	7819.0	7691.2	8019.7	7811.7
45°	10545.8	10575.0	10600.5	10465.5	10162.5	10199.0	9206.1	8866.6	8833.8	9322.9	8855.7
47.5°	11542.3	11465.6	11644.5	11651.8	11637.2	11469.3	10396.1	10144.2	10188.0	10560.4	10078.5
50°	11790.5	11987.6	12480.4	12571.7	12809.0	12962.3	11717.5	11465.6	11538.6	11962.1	11410.9
52.5°	11984.0	12283.3	12776.1	13444.1	14082.9	14448.0	13195.9	12991.5	12987.8	13247.0	12487.7
55°	12323.5	12506.0	12933.1	13852.9	15068.5	15667.2	14977.2	14648.7	14353.0	14535.6	13604.7
57.5°	12290.6	12360.0	13024.3	14159.6	15849.7	16937.5	16441.0	16127.1	15747.5	15641.6	14889.6
60°	11713.9	11878.1	12622.8	13951.5	16331.5	17926.7	17806.2	17485.0	16831.6	16583.4	15875.2
62.5°	10571.3	10790.3	11374.4	13221.4	15630.7	17977.8	18748.0	18627.6	17897.5	17452.2	17160.1
65°	8567.3	8669.5	9341.2	11367.1	14046.4	17193.0	19861.4	19711.7	19040.0	18375.7	17820.8
67.5°	5548.5	5647.0	6293.1	8114.7	11031.3	15167.1	19817.6	20230.1	19503.6	18704.2	17408.4
70°	2620.9	2595.4	3197.7	4508.1	7067.0	11582.5	18477.9	19291.9	18675.0	16955.7	14458.9
72.5°	799.4	868.8	1328.7	1996.7	3628.4	7224.0	14484.5	15247.4	15053.9	13546.3	9651.4
75°	354.1	383.3	522.0	817.7	1471.1	2964.1	8946.9	9625.9	9541.9	7990.5	4405.9
77.5°	226.3	248.2	328.5	467.2	668.0	941.8	4121.2	4781.9	4635.9	2807.1	1153.5
80°	160.6	171.6	233.6	321.2	419.8	386.9	1420.0	1686.4	1617.1	762.9	310.3
82.5°	87.6	94.9	171.6	237.3	281.1	197.1	397.9	496.4	518.3	339.5	149.7
85°	32.9	40.2	105.9	167.9	146.0	91.3	116.8	142.4	186.2	186.2	69.4
87.5°	0.0	3.7	43.8	73.0	36.5	25.6	32.9	40.2	51.1	87.6	25.6
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°	2898.4	2898.4	2898.4	2898.4	2898.4	2898.4	2898.4	2898.4	2898.4	2898.4	2898.4
2.5°	2931.2	2905.7	2916.6	2934.9	2894.7	2916.6	2872.8	2905.7	2916.6	2872.8	2894.7
5°	2967.7	2993.3	2978.7	2949.5	2923.9	2931.2	2920.3	2894.7	2916.6	2923.9	2909.3
7.5°	3073.6	3044.4	3051.7	3018.8	2967.7	2964.1	2894.7	2876.4	2883.7	2891.1	2865.5
10°	3172.1	3190.4	3153.9	3128.3	3044.4	2989.6	2894.7	2792.5	2781.5	2737.7	2774.2
12.5°	3347.3	3303.5	3288.9	3205.0	3121.0	2938.5	2734.1	2577.1	2445.7	2398.3	2350.8
15°	3493.4	3486.1	3460.5	3332.7	3139.3	2807.1	2420.2	2055.1	1803.3	1646.3	1624.4
17.5°	3694.1	3661.3	3613.8	3413.0	3004.2	2464.0	1803.3	1343.3	1091.4	992.9	956.4
20°	3847.4	3821.9	3756.2	3394.8	2759.6	1836.1	1117.0	854.2	792.1	773.9	777.5
22.5°	4070.1	3989.8	3865.7	3303.5	2314.3	1222.9	803.1	762.9	752.0	737.4	741.0
25°	4263.6	4190.6	3931.4	3146.6	1649.9	810.4	744.7	722.8	704.5	686.3	682.6
27.5°	4435.1	4343.9	4000.7	2825.3	1033.0	697.2	689.9	664.4	627.9	598.7	587.7
30°	4603.0	4497.2	4019.0	2223.0	697.2	631.5	613.3	573.1	525.6	485.5	478.2
32.5°	4884.1	4756.4	3993.4	1587.9	602.3	562.1	522.0	474.5	405.2	372.3	365.0
35°	5322.2	5128.7	3960.6	934.5	540.2	496.4	434.4	372.3	321.2	288.4	281.1
37.5°	5825.9	5490.1	3865.7	624.2	496.4	438.0	357.7	295.7	251.9	226.3	219.0
40°	6574.2	6019.4	3500.7	511.0	441.7	372.3	288.4	233.6	200.8	182.5	175.2
42.5°	7399.2	6625.3	2938.5	459.9	390.6	317.6	230.0	189.8	164.3	146.0	146.0
45°	8388.4	7256.8	2266.8	419.8	346.8	262.8	189.8	153.3	131.4	116.8	109.5
47.5°	9490.8	7829.9	1529.5	379.6	292.0	215.4	157.0	116.8	94.9	84.0	84.0
50°	10476.4	8337.3	974.6	332.2	255.5	178.9	127.8	94.9	76.7	62.1	58.4
52.5°	11370.7	8724.3	671.7	292.0	219.0	146.0	105.9	76.7	58.4	47.5	47.5
55°	12287.0	8921.4	496.4	251.9	189.8	124.1	87.6	69.4	51.1	40.2	36.5
57.5°	13038.9	9005.3	379.6	219.0	160.6	98.6	76.7	58.4	43.8	32.9	29.2
60°	13681.4	8965.2	295.7	182.5	127.8	84.0	65.7	47.5	36.5	25.6	21.9
62.5°	14057.4	8724.3	233.6	157.0	102.2	73.0	54.8	40.2	25.6	18.3	14.6
65°	14064.7	8213.2	182.5	116.8	76.7	62.1	47.5	32.9	18.3	7.3	3.7
67.5°	13057.2	7107.2	146.0	91.3	62.1	47.5	36.5	25.6	7.3	0.0	0.0
70°	10213.6	5376.9	120.5	73.0	51.1	40.2	25.6	14.6	3.7	0.0	0.0
72.5°	6508.5	3219.6	98.6	58.4	43.8	29.2	18.3	11.0	0.0	0.0	0.0
75°	2723.1	992.9	76.7	51.1	32.9	21.9	14.6	3.7	0.0	0.0	0.0
77.5°	700.9	313.9	62.1	43.8	32.9	18.3	11.0	3.7	0.0	0.0	0.0
80°	208.1	116.8	51.1	36.5	25.6	14.6	7.3	3.7	0.0	0.0	0.0
82.5°	94.9	69.4	43.8	32.9	21.9	14.6	7.3	0.0	0.0	0.0	0.0
85°	36.5	21.9	21.9	18.3	18.3	11.0	3.7	0.0	0.0	0.0	0.0
87.5°	14.6	7.3	7.3	7.3	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)