

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: P482321

Luminaire Tested: **IFLD-L-SA8B-722-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482321
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-722-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (128) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

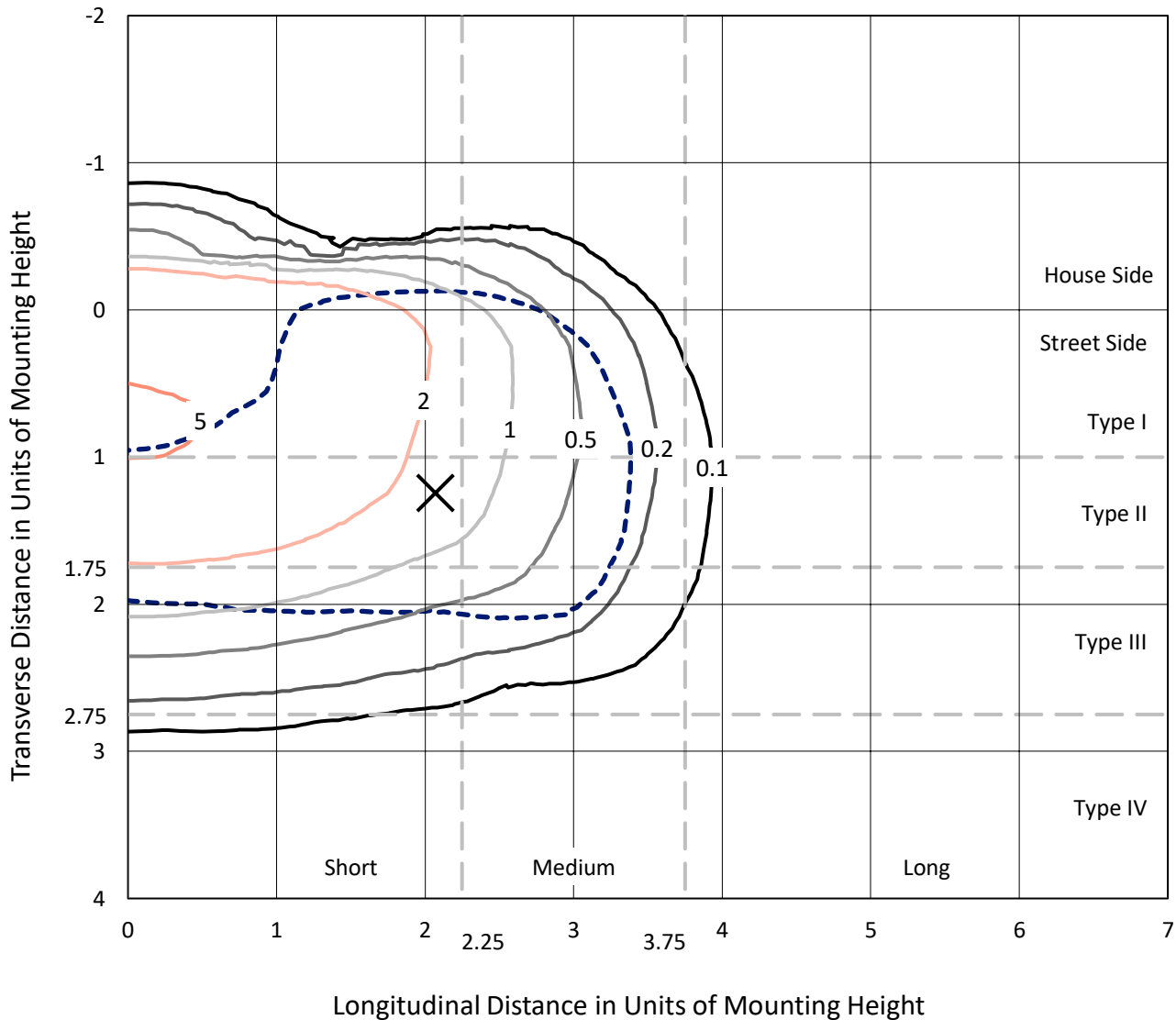
Lumens per Lamp: N/A
Luminaire Lumens: 22244.9 lumens
Efficiency: N/A
Efficacy: 69.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 320
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

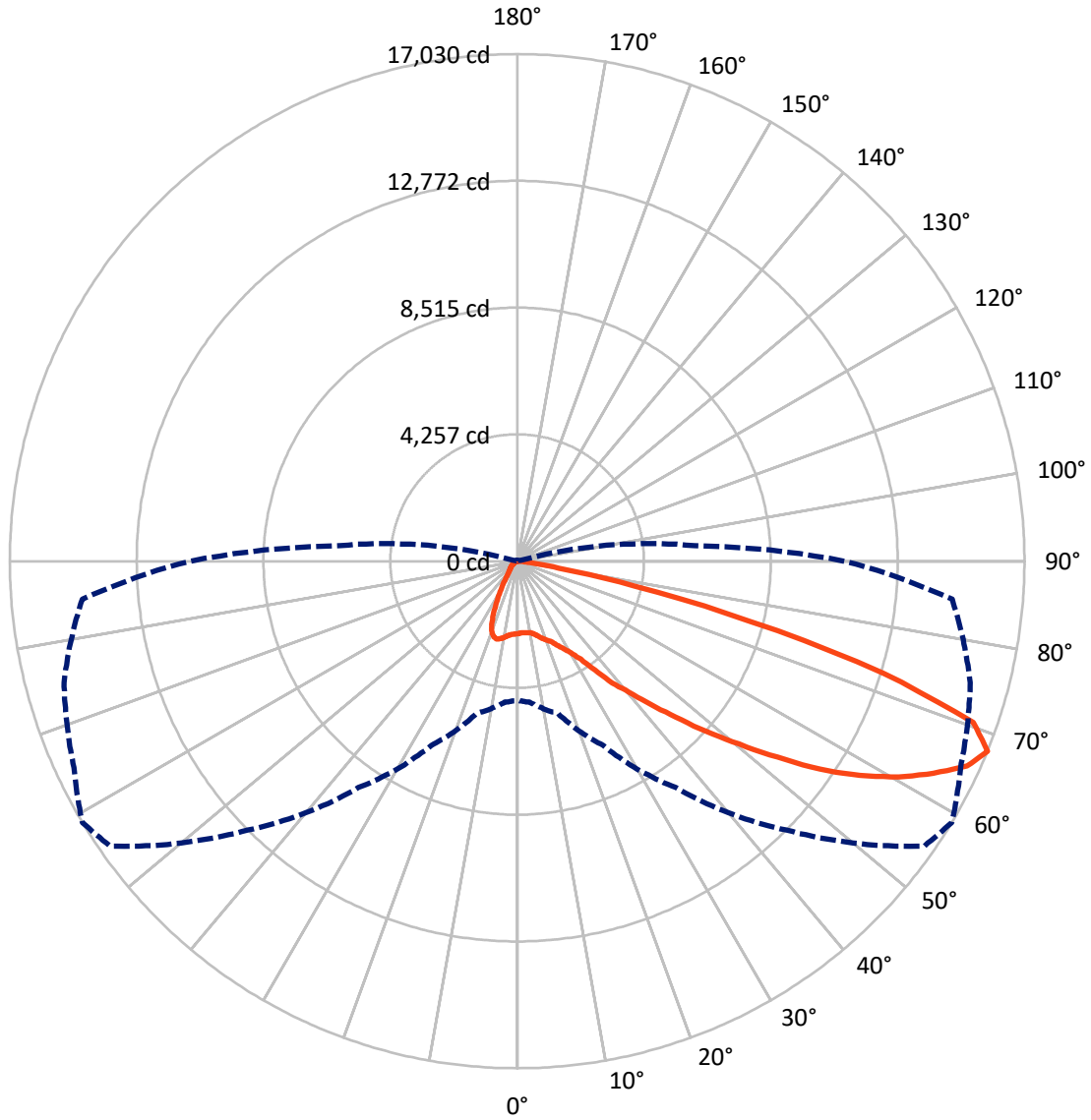
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	2613.0	0.0	2613.0
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	19631.8	0.0	19631.8
	% Fixture	88.3	0.0	88.3
Total	Lumens	22244.9	0.0	22244.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.8	1.0
10°-20°	669.5	3.0
20°-30°	1170.1	5.3
30°-40°	2060.0	9.3
40°-50°	3641.5	16.4
50°-60°	5765.7	25.9
60°-70°	6395.8	28.8
70°-80°	2219.2	10.0
80°-90°	91.4	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°	22244.9	100.0
0°-180°	22244.9	100.0

Coefficient of Utilization

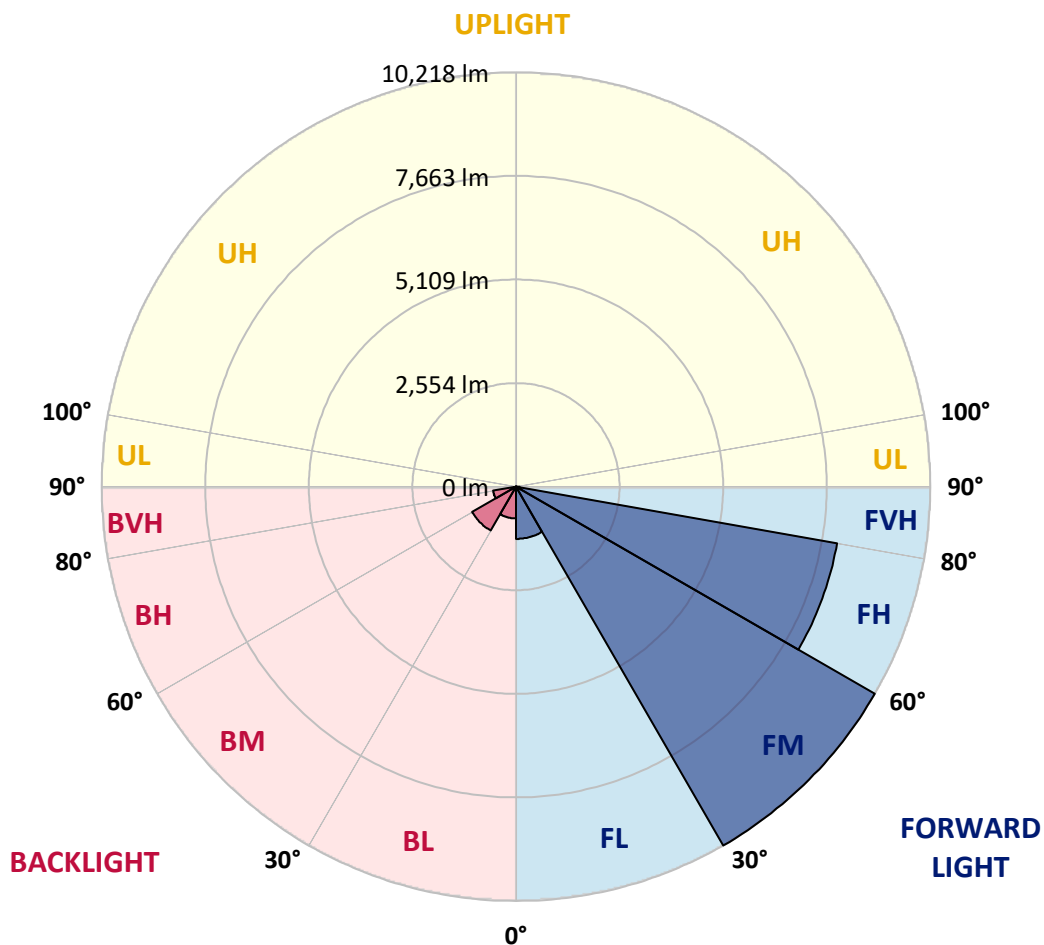


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1288.1	5.8			
FM (30°-60°)	10217.9	45.9			
FH (60°-80°)	8040.3	36.1			G4/12000
FVH (80°-90°)	85.5	0.4			G1/100
BL (0°-30°)	783.1	3.5	B2/1000		
BM (30°-60°)	1249.3	5.6	B2/2500		
BH (60°-80°)	574.7	2.6	B2/1000		G2/1000
BVH (80°-90°)	5.9	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°	2439.9	2439.9	2439.9	2439.9	2439.9	2439.9	2439.9	2439.9	2439.9	2439.9	2439.9
2.5°	2369.2	2335.4	2366.1	2369.2	2372.3	2399.9	2430.6	2409.1	2406.1	2430.6	2452.2
5°	2273.9	2258.6	2295.4	2313.9	2344.6	2369.2	2418.4	2421.4	2424.5	2452.2	2489.0
7.5°	2234.0	2197.1	2240.1	2261.6	2283.1	2341.5	2399.9	2430.6	2473.7	2507.5	2544.3
10°	2154.1	2181.7	2194.0	2230.9	2292.4	2360.0	2430.6	2446.0	2541.3	2568.9	2658.0
12.5°	2181.7	2200.2	2224.8	2234.0	2301.6	2403.0	2498.2	2504.4	2602.7	2722.6	2768.7
15°	2252.4	2240.1	2249.3	2261.6	2341.5	2424.5	2578.1	2605.8	2698.0	2833.2	2946.9
17.5°	2403.0	2381.5	2366.1	2363.0	2381.5	2458.3	2639.6	2722.6	2808.6	2993.0	3051.4
20°	2781.0	2762.5	2701.1	2541.3	2486.0	2516.7	2713.4	2830.1	2950.0	3155.8	3251.1
22.5°	3355.6	3374.0	3229.6	3005.3	2774.8	2655.0	2830.1	2931.5	3122.0	3383.2	3469.3
25°	4034.7	3997.8	3822.7	3561.5	3198.9	2916.2	3017.6	3131.3	3364.8	3579.9	3613.7
27.5°	4566.3	4523.3	4388.1	4071.6	3758.1	3300.3	3263.4	3334.1	3610.6	3804.2	3767.3
30°	5091.8	5107.1	5014.9	4640.0	4252.9	3770.4	3536.9	3567.6	3779.6	4028.5	3945.6
32.5°	5761.6	5724.8	5672.5	5343.7	4885.9	4369.6	3970.2	3921.0	4013.2	4342.0	4243.6
35°	6385.4	6363.9	6293.3	5961.4	5561.9	4999.6	4609.3	4498.7	4477.2	4842.9	4670.8
37.5°	6929.3	6892.5	6784.9	6572.9	6185.7	5712.5	5285.3	5187.0	5183.9	5435.9	5104.0
40°	7387.2	7414.9	7402.6	7169.0	6957.0	6579.0	5924.5	5767.8	5755.5	5890.7	5697.1
42.5°	7980.3	8044.8	8011.0	7964.9	7709.8	7562.4	6821.8	6582.1	6474.6	6751.1	6576.0
45°	8877.5	8902.1	8923.6	8809.9	8554.9	8585.6	7749.8	7464.0	7436.4	7848.1	7454.8
47.5°	9716.4	9651.9	9802.5	9808.6	9796.3	9655.0	8751.6	8539.5	8576.4	8889.8	8484.2
50°	9925.4	10091.3	10506.2	10583.0	10782.7	10911.8	9863.9	9651.9	9713.4	10069.8	9605.8
52.5°	10088.3	10340.2	10755.1	11317.4	11855.2	12162.4	11108.5	10936.4	10933.3	11151.5	10512.3
55°	10374.0	10527.7	10887.2	11661.6	12684.8	13188.8	12608.0	12331.5	12082.6	12236.2	11452.6
57.5°	10346.4	10404.8	10964.0	11919.7	13342.4	14258.1	13840.2	13576.0	13256.4	13167.3	12534.3
60°	9860.9	9999.1	10626.0	11744.5	13748.1	15090.9	14989.5	14719.1	14169.0	13960.1	13363.9
62.5°	8899.1	9083.4	9575.1	11130.0	13158.1	15133.9	15782.3	15680.9	15066.3	14691.4	14445.6
65°	7212.0	7298.1	7863.5	9568.9	11824.4	14473.3	16719.5	16593.5	16028.1	15468.9	15001.8
67.5°	4670.8	4753.7	5297.6	6831.0	9286.2	12767.8	16682.6	17029.9	16418.4	15745.4	14654.6
70°	2206.3	2184.8	2691.8	3795.0	5949.1	9750.2	15554.9	16240.2	15720.8	14273.5	12171.7
72.5°	673.0	731.3	1118.5	1680.9	3054.4	6081.2	12193.2	12835.4	12672.5	11403.4	8124.7
75°	298.1	322.7	439.4	688.3	1238.4	2495.2	7531.6	8103.2	8032.5	6726.5	3709.0
77.5°	190.5	209.0	276.6	393.3	562.3	792.8	3469.3	4025.5	3902.6	2363.0	971.0
80°	135.2	144.4	196.7	270.4	353.4	325.7	1195.3	1419.7	1361.3	642.2	261.2
82.5°	73.7	79.9	144.4	199.7	236.6	165.9	334.9	417.9	436.3	285.8	126.0
85°	27.7	33.8	89.1	141.4	122.9	76.8	98.3	119.8	156.7	156.7	58.4
87.5°	0.0	3.1	36.9	61.5	30.7	21.5	27.7	33.8	43.0	73.7	21.5
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°	2439.9	2439.9	2439.9	2439.9	2439.9	2439.9	2439.9	2439.9	2439.9	2439.9	2439.9
2.5°	2467.5	2446.0	2455.2	2470.6	2436.8	2455.2	2418.4	2446.0	2455.2	2418.4	2436.8
5°	2498.2	2519.8	2507.5	2482.9	2461.4	2467.5	2458.3	2436.8	2455.2	2461.4	2449.1
7.5°	2587.4	2562.8	2568.9	2541.3	2498.2	2495.2	2436.8	2421.4	2427.6	2433.7	2412.2
10°	2670.3	2685.7	2655.0	2633.5	2562.8	2516.7	2436.8	2350.8	2341.5	2304.7	2335.4
12.5°	2817.8	2781.0	2768.7	2698.0	2627.3	2473.7	2301.6	2169.5	2058.8	2018.9	1978.9
15°	2940.7	2934.6	2913.1	2805.5	2642.7	2363.0	2037.3	1730.0	1518.0	1385.9	1367.4
17.5°	3109.8	3082.1	3042.1	2873.1	2529.0	2074.2	1518.0	1130.8	918.8	835.8	805.1
20°	3238.8	3217.3	3162.0	2857.8	2323.1	1545.7	940.3	719.1	666.8	651.4	654.5
22.5°	3426.3	3358.7	3254.2	2781.0	1948.2	1029.4	676.0	642.2	633.0	620.7	623.8
25°	3589.1	3527.7	3309.5	2648.8	1388.9	682.2	626.9	608.4	593.1	577.7	574.6
27.5°	3733.5	3656.7	3367.9	2378.4	869.6	586.9	580.8	559.3	528.5	504.0	494.7
30°	3874.9	3785.8	3383.2	1871.4	586.9	531.6	516.2	482.4	442.5	408.7	402.5
32.5°	4111.5	4004.0	3361.7	1336.7	507.0	473.2	439.4	399.5	341.1	313.4	307.3
35°	4480.3	4317.4	3334.1	786.7	454.8	417.9	365.7	313.4	270.4	242.8	236.6
37.5°	4904.3	4621.6	3254.2	525.5	417.9	368.7	301.1	248.9	212.0	190.5	184.4
40°	5534.3	5067.2	2946.9	430.2	371.8	313.4	242.8	196.7	169.0	153.6	147.5
42.5°	6228.7	5577.3	2473.7	387.2	328.8	267.3	193.6	159.8	138.3	122.9	122.9
45°	7061.5	6108.9	1908.3	353.4	291.9	221.2	159.8	129.1	110.6	98.3	92.2
47.5°	7989.5	6591.3	1287.5	319.6	245.8	181.3	132.1	98.3	79.9	70.7	70.7
50°	8819.2	7018.5	820.5	279.6	215.1	150.6	107.6	79.9	64.5	52.2	49.2
52.5°	9572.0	7344.2	565.4	245.8	184.4	122.9	89.1	64.5	49.2	39.9	39.9
55°	10343.3	7510.1	417.9	212.0	159.8	104.5	73.7	58.4	43.0	33.8	30.7
57.5°	10976.3	7580.8	319.6	184.4	135.2	83.0	64.5	49.2	36.9	27.7	24.6
60°	11517.1	7547.0	248.9	153.6	107.6	70.7	55.3	39.9	30.7	21.5	18.4
62.5°	11833.6	7344.2	196.7	132.1	86.0	61.5	46.1	33.8	21.5	15.4	12.3
65°	11839.8	6914.0	153.6	98.3	64.5	52.2	39.9	27.7	15.4	6.1	3.1
67.5°	10991.7	5982.9	122.9	76.8	52.2	39.9	30.7	21.5	6.1	0.0	0.0
70°	8597.9	4526.3	101.4	61.5	43.0	33.8	21.5	12.3	3.1	0.0	0.0
72.5°	5478.9	2710.3	83.0	49.2	36.9	24.6	15.4	9.2	0.0	0.0	0.0
75°	2292.4	835.8	64.5	43.0	27.7	18.4	12.3	3.1	0.0	0.0	0.0
77.5°	590.0	264.3	52.2	36.9	27.7	15.4	9.2	3.1	0.0	0.0	0.0
80°	175.2	98.3	43.0	30.7	21.5	12.3	6.1	3.1	0.0	0.0	0.0
82.5°	79.9	58.4	36.9	27.7	18.4	12.3	6.1	0.0	0.0	0.0	0.0
85°	30.7	18.4	18.4	15.4	15.4	9.2	3.1	0.0	0.0	0.0	0.0
87.5°	12.3	6.1	6.1	6.1	3.1	3.1	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)