

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: P482359

Luminaire Tested: **IFLD-L-SA8A-727-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482359
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-727-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

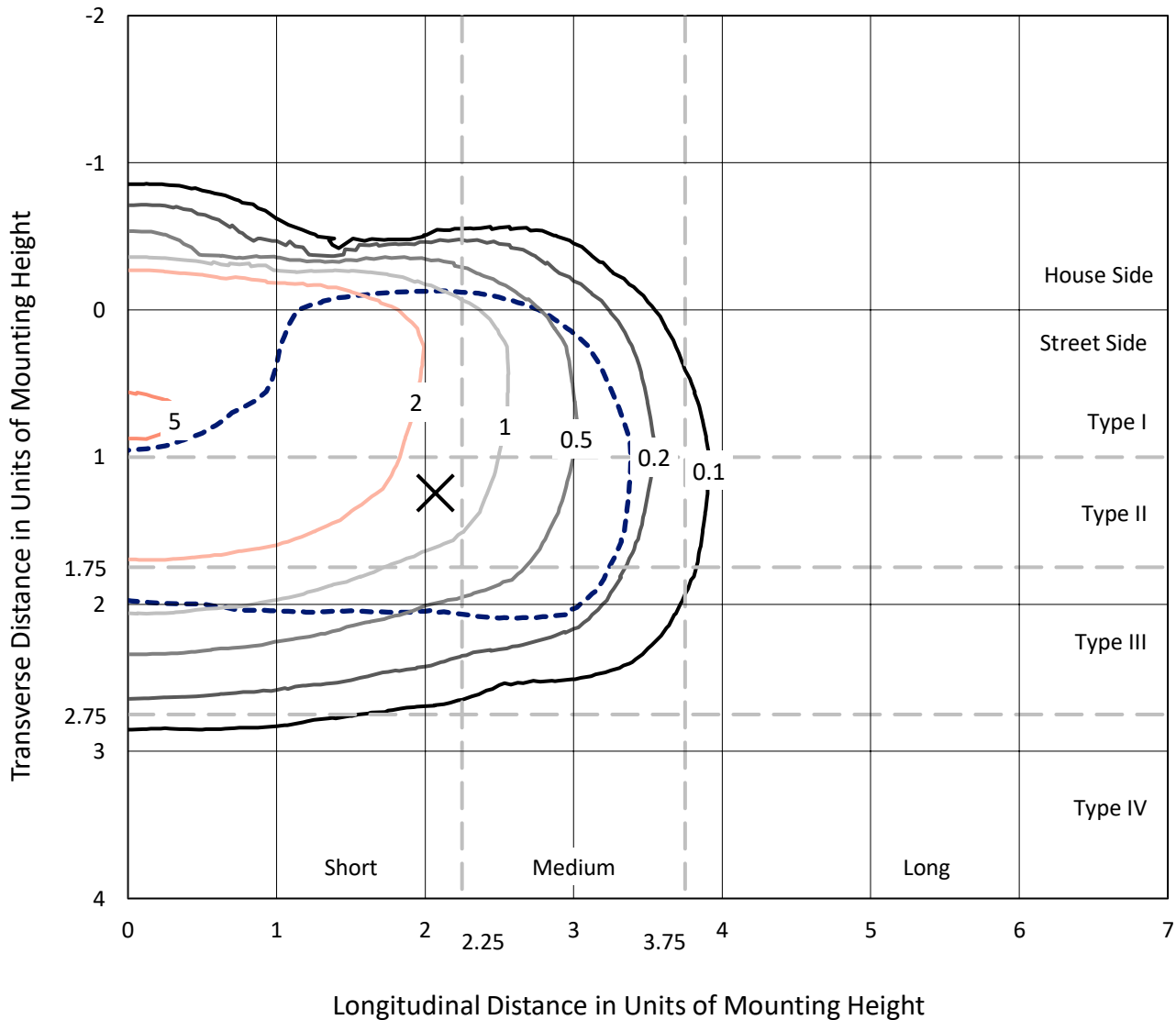
Lumens per Lamp: N/A
Luminaire Lumens: 21257.9 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 247.8
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

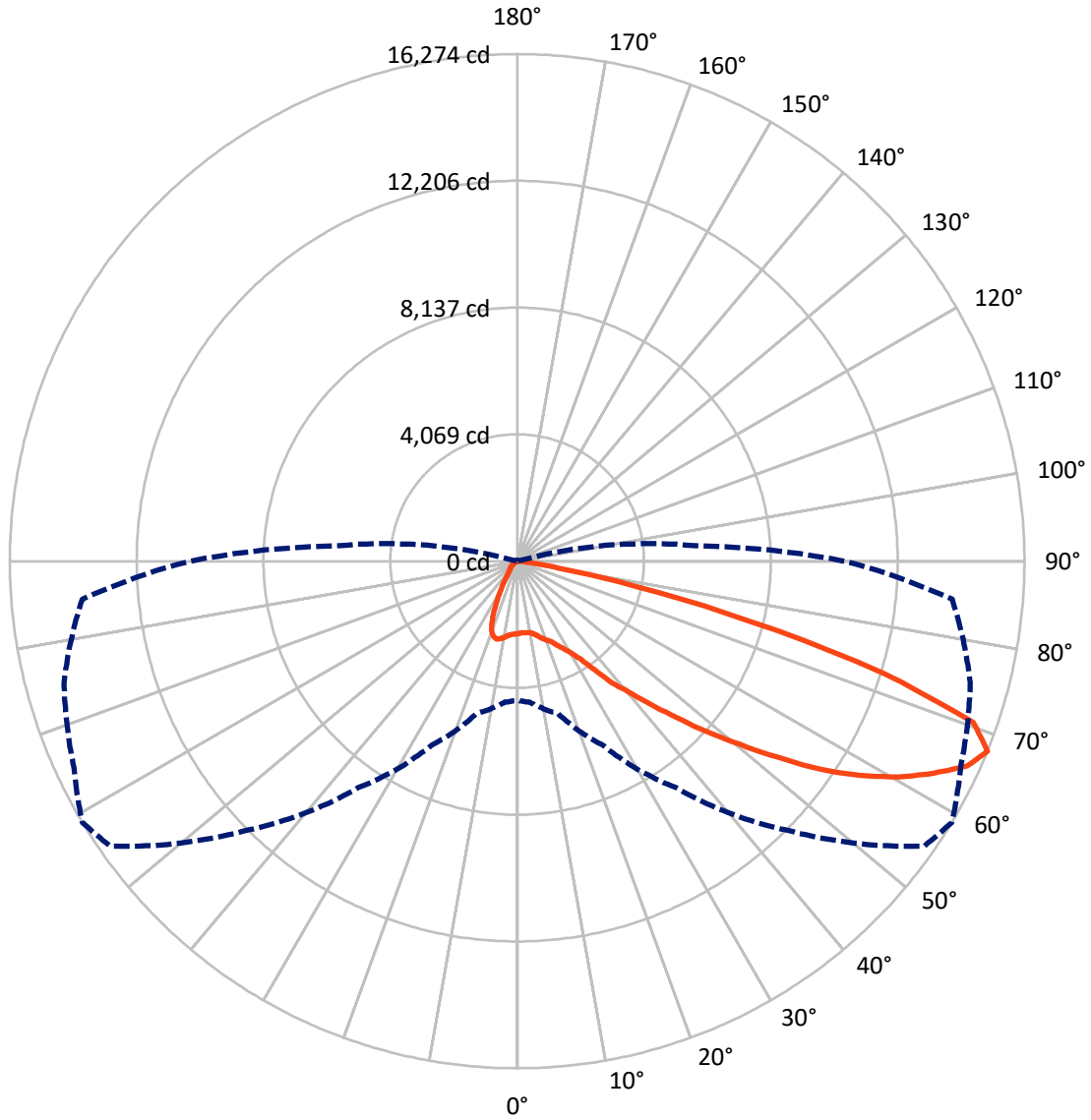
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	2497.1	0.0	2497.1
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	18760.8	0.0	18760.8
	% Fixture	88.3	0.0	88.3
Total	Lumens	21257.9	0.0	21257.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.5	1.0
10°-20°	639.8	3.0
20°-30°	1118.1	5.3
30°-40°	1968.6	9.3
40°-50°	3479.9	16.4
50°-60°	5509.9	25.9
60°-70°	6112.0	28.8
70°-80°	2120.7	10.0
80°-90°	87.3	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°	21257.9	100.0
0°-180°	21257.9	100.0

Coefficient of Utilization

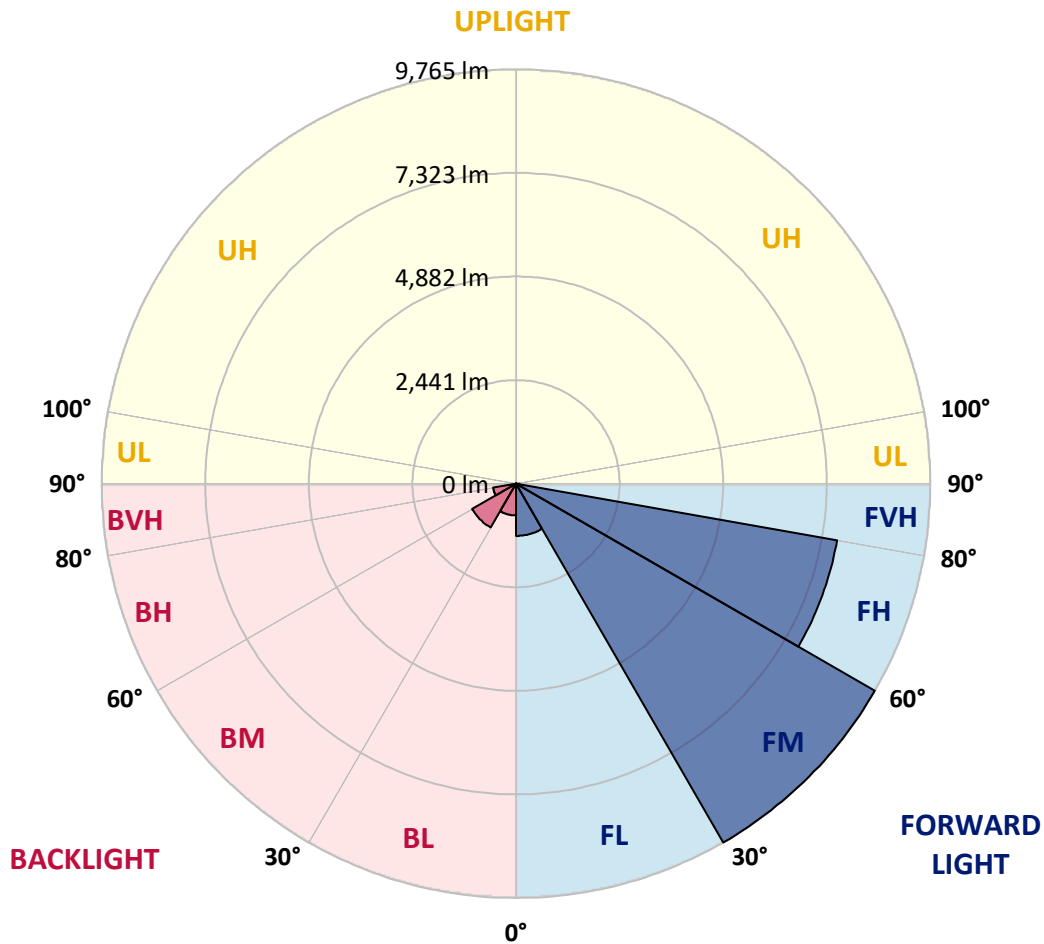


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1231.0	5.8			
FM (30°-60°)	9764.5	45.9			
FH (60°-80°)	7683.6	36.1			G4/12000
FVH (80°-90°)	81.7	0.4			G1/100
BL (0°-30°)	748.4	3.5	B2/1000		
BM (30°-60°)	1193.9	5.6	B2/2500		
BH (60°-80°)	549.2	2.6	B2/1000		G2/1000
BVH (80°-90°)	5.6	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°	2331.6	2331.6	2331.6	2331.6	2331.6	2331.6	2331.6	2331.6	2331.6	2331.6	2331.6
2.5°	2264.1	2231.8	2261.1	2264.1	2267.0	2293.4	2322.8	2302.2	2299.3	2322.8	2343.4
5°	2173.0	2158.4	2193.6	2211.2	2240.6	2264.1	2311.1	2314.0	2316.9	2343.4	2378.6
7.5°	2134.9	2099.6	2140.7	2161.3	2181.8	2237.6	2293.4	2322.8	2363.9	2396.2	2431.4
10°	2058.5	2084.9	2096.7	2131.9	2190.7	2255.3	2322.8	2337.5	2428.5	2454.9	2540.1
12.5°	2084.9	2102.6	2126.0	2134.9	2199.5	2296.4	2387.4	2393.3	2487.2	2601.8	2645.8
15°	2152.5	2140.7	2149.5	2161.3	2237.6	2316.9	2463.8	2490.2	2578.3	2707.5	2816.1
17.5°	2296.4	2275.8	2261.1	2258.2	2275.8	2349.2	2522.5	2601.8	2684.0	2860.2	2916.0
20°	2657.6	2639.9	2581.2	2428.5	2375.7	2405.0	2593.0	2704.5	2819.1	3015.8	3106.9
22.5°	3206.7	3224.3	3086.3	2871.9	2651.7	2537.2	2704.5	2801.5	2983.5	3233.1	3315.3
25°	3855.7	3820.4	3653.0	3403.4	3056.9	2786.8	2883.7	2992.3	3215.5	3421.1	3453.4
27.5°	4363.7	4322.6	4193.4	3890.9	3591.4	3153.8	3118.6	3186.1	3450.4	3635.4	3600.2
30°	4865.8	4880.5	4792.4	4434.2	4064.2	3603.1	3379.9	3409.3	3611.9	3849.8	3770.5
32.5°	5506.0	5470.8	5420.8	5106.6	4669.1	4175.7	3794.0	3747.0	3835.1	4149.3	4055.4
35°	6102.1	6081.6	6014.0	5696.9	5315.1	4777.7	4404.8	4299.1	4278.5	4628.0	4463.5
37.5°	6621.9	6586.6	6483.9	6281.2	5911.2	5459.0	5050.8	4956.9	4953.9	5194.7	4877.6
40°	7059.4	7085.9	7074.1	6850.9	6648.3	6287.1	5661.6	5511.9	5500.1	5629.3	5444.3
42.5°	7626.2	7687.8	7655.5	7611.5	7367.8	7226.8	6519.1	6290.1	6187.3	6451.6	6284.2
45°	8483.6	8507.1	8527.7	8419.0	8175.3	8204.7	7405.9	7132.8	7106.4	7499.9	7124.0
47.5°	9285.3	9223.6	9367.5	9373.4	9361.7	9226.6	8363.2	8160.6	8195.9	8495.4	8107.8
50°	9485.0	9643.6	10040.0	10113.4	10304.3	10427.6	9426.3	9223.6	9282.4	9623.0	9179.6
52.5°	9640.6	9881.4	10277.9	10815.3	11329.1	11622.8	10615.6	10451.1	10448.2	10656.7	10045.9
55°	9913.7	10060.6	10404.1	11144.1	12122.0	12603.6	12048.6	11784.3	11546.4	11693.3	10944.5
57.5°	9887.3	9943.1	10477.5	11390.8	12750.4	13625.5	13226.1	12973.6	12668.2	12583.0	11978.1
60°	9423.3	9555.5	10154.5	11223.4	13138.0	14421.3	14324.4	14066.0	13540.4	13340.7	12771.0
62.5°	8504.2	8680.4	9150.2	10636.1	12574.2	14462.4	15082.0	14985.1	14397.8	14039.6	13804.6
65°	6892.0	6974.3	7514.6	9144.4	11299.8	13831.1	15977.7	15857.3	15317.0	14782.5	14336.2
67.5°	4463.5	4542.8	5062.6	6527.9	8874.2	12201.3	15942.4	16274.3	15689.9	15046.8	14004.3
70°	2108.4	2087.9	2572.4	3626.6	5685.1	9317.6	14864.7	15519.6	15023.3	13640.2	11631.6
72.5°	643.1	698.9	1068.9	1606.3	2918.9	5811.4	11652.2	12265.9	12110.3	10897.5	7764.2
75°	284.8	308.3	419.9	657.8	1183.4	2384.5	7197.4	7743.6	7676.1	6428.1	3544.4
77.5°	182.1	199.7	264.3	375.9	537.4	757.6	3315.3	3846.9	3729.4	2258.2	927.9
80°	129.2	138.0	187.9	258.4	337.7	311.3	1142.3	1356.7	1300.9	613.7	249.6
82.5°	70.5	76.3	138.0	190.9	226.1	158.6	320.1	399.4	417.0	273.1	120.4
85°	26.4	32.3	85.2	135.1	117.5	73.4	94.0	114.5	149.8	149.8	55.8
87.5°	0.0	2.9	35.2	58.7	29.4	20.6	26.4	32.3	41.1	70.5	20.6
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°	2331.6	2331.6	2331.6	2331.6	2331.6	2331.6	2331.6	2331.6	2331.6	2331.6	2331.6
2.5°	2358.0	2337.5	2346.3	2361.0	2328.7	2346.3	2311.1	2337.5	2346.3	2311.1	2328.7
5°	2387.4	2408.0	2396.2	2372.7	2352.2	2358.0	2349.2	2328.7	2346.3	2352.2	2340.4
7.5°	2472.6	2449.1	2454.9	2428.5	2387.4	2384.5	2328.7	2314.0	2319.9	2325.7	2305.2
10°	2551.8	2566.5	2537.2	2516.6	2449.1	2405.0	2328.7	2246.4	2237.6	2202.4	2231.8
12.5°	2692.8	2657.6	2645.8	2578.3	2510.7	2363.9	2199.5	2073.2	1967.5	1929.3	1891.1
15°	2810.3	2804.4	2783.8	2681.1	2525.4	2258.2	1946.9	1653.3	1450.6	1324.4	1306.8
17.5°	2971.8	2945.3	2907.2	2745.7	2416.8	1982.2	1450.6	1080.6	878.0	798.7	769.4
20°	3095.1	3074.5	3021.7	2731.0	2220.0	1477.1	898.6	687.1	637.2	622.5	625.5
22.5°	3274.2	3209.6	3109.8	2657.6	1861.8	983.7	646.0	613.7	604.9	593.2	596.1
25°	3429.9	3371.1	3162.6	2531.3	1327.3	651.9	599.1	581.4	566.8	552.1	549.1
27.5°	3567.9	3494.5	3218.4	2272.9	831.0	560.9	555.0	534.4	505.1	481.6	472.8
30°	3703.0	3617.8	3233.1	1788.3	560.9	508.0	493.3	461.0	422.9	390.6	384.7
32.5°	3929.1	3826.3	3212.6	1277.4	484.5	452.2	419.9	381.7	326.0	299.5	293.7
35°	4281.5	4125.8	3186.1	751.8	434.6	399.4	349.4	299.5	258.4	232.0	226.1
37.5°	4686.7	4416.5	3109.8	502.1	399.4	352.4	287.8	237.9	202.6	182.1	176.2
40°	5288.7	4842.3	2816.1	411.1	355.3	299.5	232.0	187.9	161.5	146.8	141.0
42.5°	5952.4	5329.8	2363.9	370.0	314.2	255.5	185.0	152.7	132.1	117.5	117.5
45°	6748.2	5837.8	1823.6	337.7	279.0	211.4	152.7	123.3	105.7	94.0	88.1
47.5°	7635.0	6298.9	1230.4	305.4	234.9	173.3	126.3	94.0	76.3	67.5	67.5
50°	8427.8	6707.0	784.1	267.2	205.6	143.9	102.8	76.3	61.7	49.9	47.0
52.5°	9147.3	7018.3	540.3	234.9	176.2	117.5	85.2	61.7	47.0	38.2	38.2
55°	9884.4	7176.9	399.4	202.6	152.7	99.8	70.5	55.8	41.1	32.3	29.4
57.5°	10489.3	7244.4	305.4	176.2	129.2	79.3	61.7	47.0	35.2	26.4	23.5
60°	11006.1	7212.1	237.9	146.8	102.8	67.5	52.9	38.2	29.4	20.6	17.6
62.5°	11308.6	7018.3	187.9	126.3	82.2	58.7	44.0	32.3	20.6	14.7	11.7
65°	11314.5	6607.2	146.8	94.0	61.7	49.9	38.2	26.4	14.7	5.9	2.9
67.5°	10504.0	5717.4	117.5	73.4	49.9	38.2	29.4	20.6	5.9	0.0	0.0
70°	8216.4	4325.5	96.9	58.7	41.1	32.3	20.6	11.7	2.9	0.0	0.0
72.5°	5235.8	2590.0	79.3	47.0	35.2	23.5	14.7	8.8	0.0	0.0	0.0
75°	2190.7	798.7	61.7	41.1	26.4	17.6	11.7	2.9	0.0	0.0	0.0
77.5°	563.8	252.5	49.9	35.2	26.4	14.7	8.8	2.9	0.0	0.0	0.0
80°	167.4	94.0	41.1	29.4	20.6	11.7	5.9	2.9	0.0	0.0	0.0
82.5°	76.3	55.8	35.2	26.4	17.6	11.7	5.9	0.0	0.0	0.0	0.0
85°	29.4	17.6	17.6	14.7	14.7	8.8	2.9	0.0	0.0	0.0	0.0
87.5°	11.7	5.9	5.9	5.9	2.9	2.9	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)