

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: P482590

Luminaire Tested: **IFLD-L-SA7C-827-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482590
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-827-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

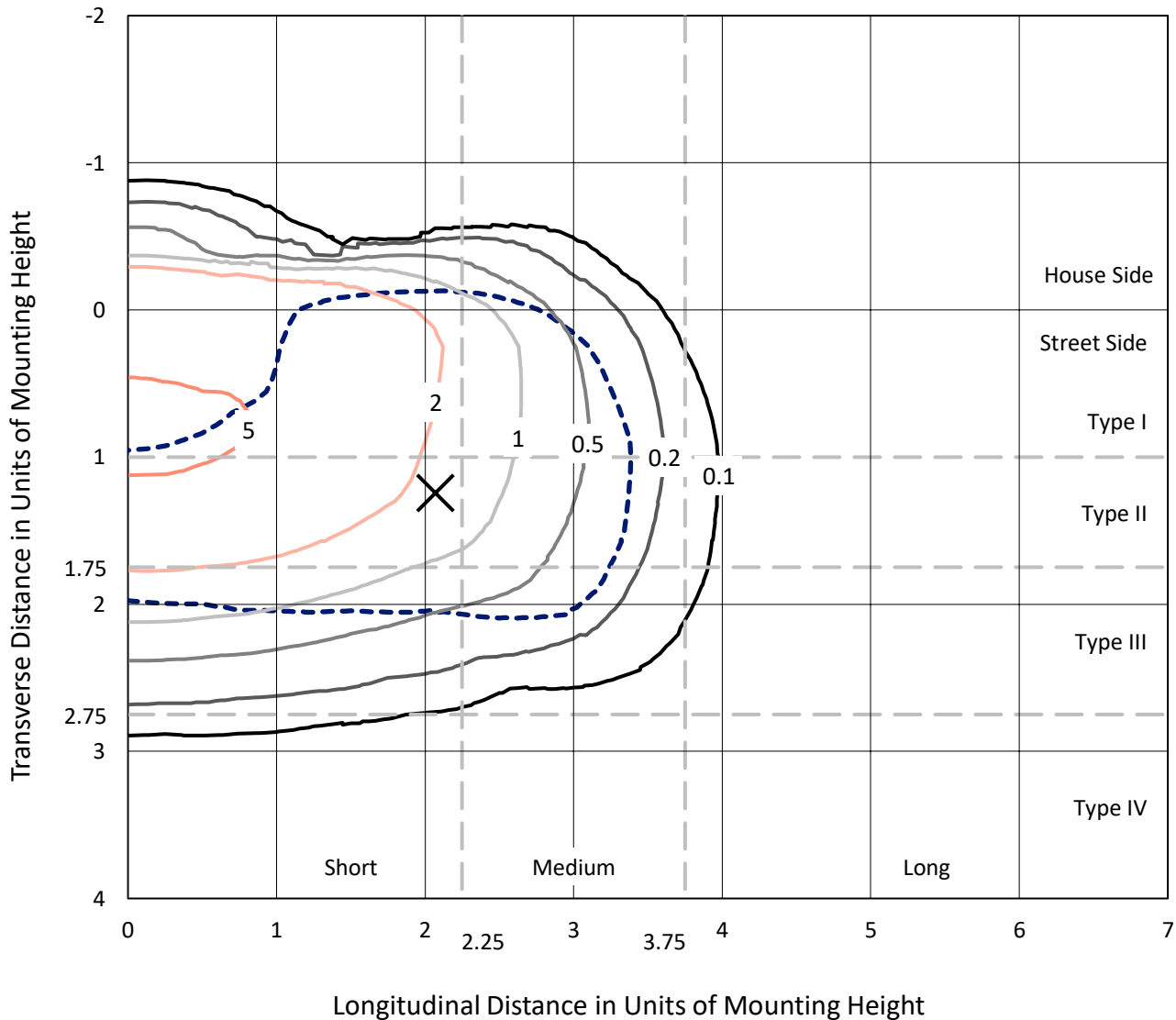
Lumens per Lamp: N/A
Luminaire Lumens: 24180.8 lumens
Efficiency: N/A
Efficacy: 65.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 369
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

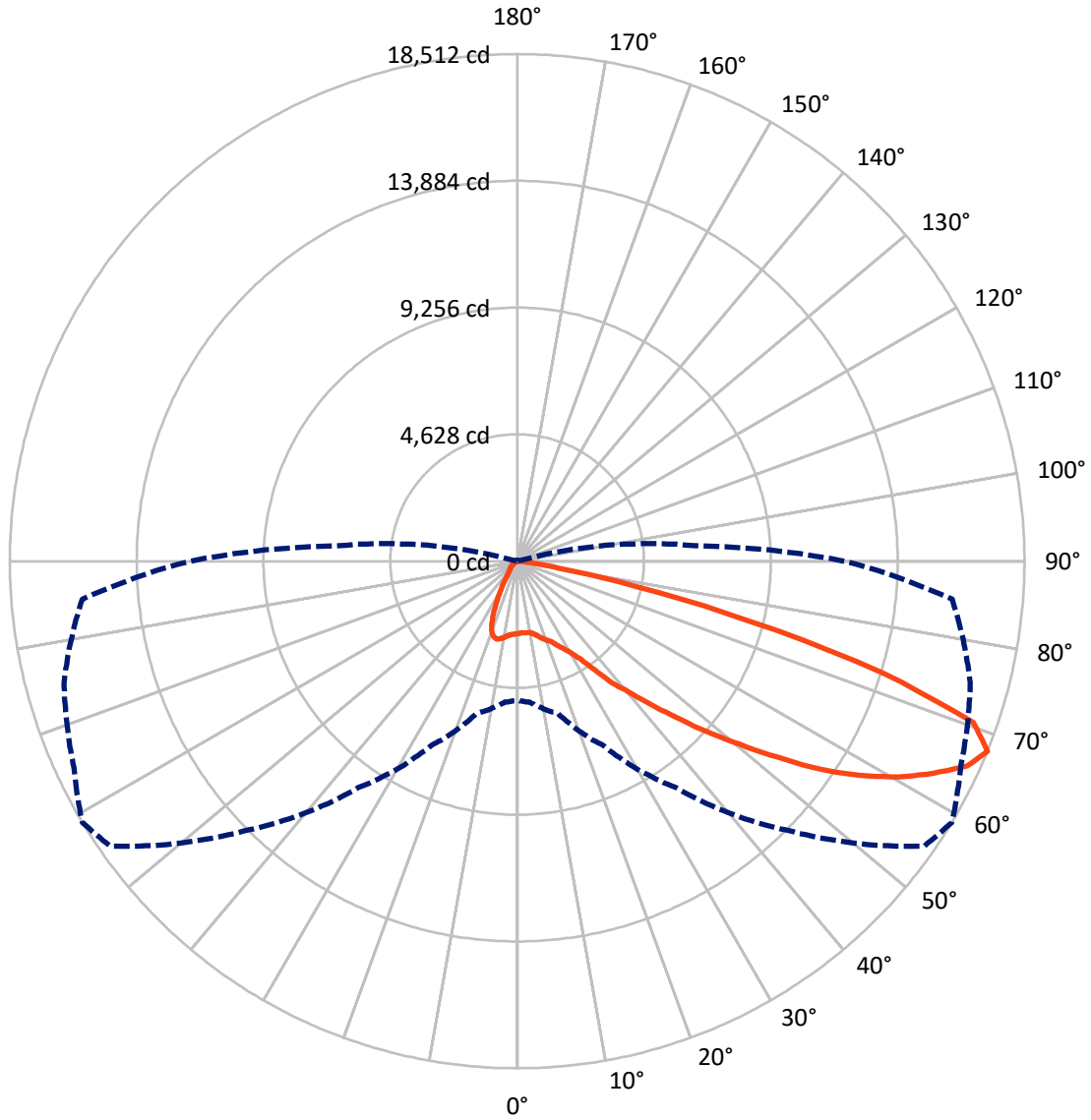
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	2840.4	0.0	2840.4
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	21340.4	0.0	21340.4
	% Fixture	88.3	0.0	88.3
Total	Lumens	24180.8	0.0	24180.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.9	1.0
10°-20°	727.7	3.0
20°-30°	1271.9	5.3
30°-40°	2239.3	9.3
40°-50°	3958.4	16.4
50°-60°	6267.5	25.9
60°-70°	6952.4	28.8
70°-80°	2412.3	10.0
80°-90°	99.3	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°	24180.8	100.0
0°-180°	24180.8	100.0

Coefficient of Utilization

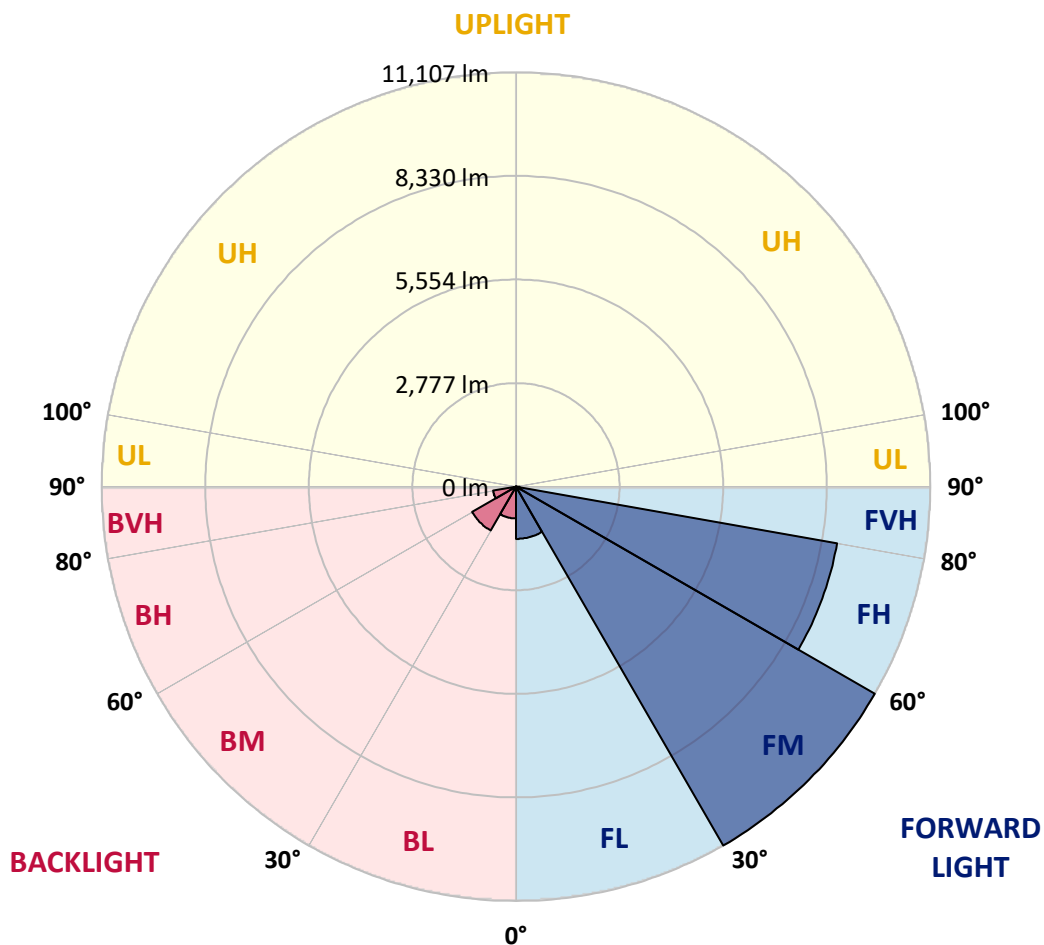


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1400.3	5.8			
FM (30°-60°)	11107.1	45.9			
FH (60°-80°)	8740.1	36.1			G4/12000
FVH (80°-90°)	92.9	0.4			G1/100
BL (0°-30°)	851.3	3.5	B2/1000		
BM (30°-60°)	1358.0	5.6	B2/2500		
BH (60°-80°)	624.7	2.6	B2/1000		G2/1000
BVH (80°-90°)	6.4	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°	2652.2	2652.2	2652.2	2652.2	2652.2	2652.2	2652.2	2652.2	2652.2	2652.2	2652.2
2.5°	2575.4	2538.6	2572.0	2575.4	2578.7	2608.8	2642.2	2618.8	2615.5	2642.2	2665.6
5°	2471.8	2455.1	2495.2	2515.2	2548.6	2575.4	2628.8	2632.2	2635.5	2665.6	2705.6
7.5°	2428.4	2388.3	2435.1	2458.5	2481.8	2545.3	2608.8	2642.2	2688.9	2725.7	2765.8
10°	2341.6	2371.6	2385.0	2425.1	2491.9	2565.4	2642.2	2658.9	2762.4	2792.5	2889.4
12.5°	2371.6	2391.7	2418.4	2428.4	2501.9	2612.1	2715.7	2722.3	2829.2	2959.5	3009.6
15°	2448.4	2435.1	2445.1	2458.5	2545.3	2635.5	2802.5	2832.6	2932.8	3079.8	3203.3
17.5°	2612.1	2588.7	2572.0	2568.7	2588.7	2672.2	2869.3	2959.5	3053.0	3253.5	3316.9
20°	3023.0	3002.9	2936.1	2762.4	2702.3	2735.7	2949.5	3076.4	3206.7	3430.5	3534.0
22.5°	3647.6	3667.7	3510.7	3266.8	3016.3	2886.0	3076.4	3186.6	3393.7	3677.7	3771.2
25°	4385.8	4345.7	4155.3	3871.4	3477.3	3169.9	3280.2	3403.8	3657.6	3891.5	3928.2
27.5°	4963.7	4916.9	4770.0	4425.9	4085.2	3587.5	3547.4	3624.2	3924.9	4135.3	4095.2
30°	5534.9	5551.6	5451.4	5043.9	4623.0	4098.5	3844.7	3878.1	4108.6	4379.1	4288.9
32.5°	6263.1	6223.0	6166.2	5808.8	5311.1	4749.9	4315.7	4262.2	4362.4	4719.8	4613.0
35°	6941.1	6917.8	6840.9	6480.2	6045.9	5434.7	5010.5	4890.2	4866.8	5264.3	5077.3
37.5°	7532.4	7492.3	7375.4	7144.9	6724.0	6209.6	5745.3	5638.4	5635.1	5909.0	5548.2
40°	8030.1	8060.1	8046.8	7792.9	7562.4	7151.6	6440.1	6269.7	6256.4	6403.4	6192.9
42.5°	8674.8	8744.9	8708.2	8658.1	8380.8	8220.5	7415.5	7154.9	7038.0	7338.6	7148.2
45°	9650.1	9676.9	9700.2	9576.6	9299.4	9332.8	8424.2	8113.6	8083.5	8531.1	8103.6
47.5°	10562.0	10491.9	10655.6	10662.2	10648.9	10495.2	9513.2	9282.7	9322.8	9663.5	9222.6
50°	10789.2	10969.5	11420.5	11504.0	11721.1	11861.4	10722.4	10491.9	10558.7	10946.2	10441.8
52.5°	10966.2	11240.1	11691.1	12302.3	12886.9	13220.9	12075.2	11888.1	11884.8	12122.0	11427.2
55°	11276.9	11443.9	11834.7	12676.4	13788.8	14336.6	13705.3	13404.6	13134.1	13301.1	12449.3
57.5°	11246.8	11310.3	11918.2	12957.0	14503.6	15499.0	15044.7	14757.5	14410.1	14313.2	13625.1
60°	10719.0	10869.3	11550.8	12766.6	14944.5	16404.2	16294.0	16000.0	15402.1	15175.0	14527.0
62.5°	9673.5	9873.9	10408.4	12098.6	14303.2	16451.0	17155.8	17045.6	16377.5	15970.0	15702.8
65°	7839.7	7933.2	8547.8	10401.7	12853.5	15732.8	18174.6	18037.6	17423.0	16815.1	16307.4
67.5°	5077.3	5167.4	5758.7	7425.5	10094.4	13879.0	18134.5	18512.0	17847.2	17115.7	15929.9
70°	2398.3	2375.0	2926.1	4125.3	6466.8	10598.8	16908.6	17653.5	17089.0	15515.7	13230.9
72.5°	731.5	795.0	1215.9	1827.1	3320.3	6610.5	13254.3	13952.4	13775.4	12395.9	8831.8
75°	324.0	350.7	477.7	748.2	1346.1	2712.3	8187.1	8808.4	8731.5	7311.9	4031.7
77.5°	207.1	227.1	300.6	427.6	611.3	861.8	3771.2	4375.8	4242.2	2568.7	1055.5
80°	147.0	157.0	213.8	293.9	384.1	354.1	1299.4	1543.2	1479.8	698.1	283.9
82.5°	80.2	86.8	157.0	217.1	257.2	180.4	364.1	454.3	474.3	310.6	137.0
85°	30.1	36.7	96.9	153.7	133.6	83.5	106.9	130.3	170.4	170.4	63.5
87.5°	0.0	3.3	40.1	66.8	33.4	23.4	30.1	36.7	46.8	80.2	23.4
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°	2652.2	2652.2	2652.2	2652.2	2652.2	2652.2	2652.2	2652.2	2652.2	2652.2	2652.2
2.5°	2682.3	2658.9	2668.9	2685.6	2648.9	2668.9	2628.8	2658.9	2668.9	2628.8	2648.9
5°	2715.7	2739.0	2725.7	2699.0	2675.6	2682.3	2672.2	2648.9	2668.9	2675.6	2662.2
7.5°	2812.5	2785.8	2792.5	2762.4	2715.7	2712.3	2648.9	2632.2	2638.8	2645.5	2622.1
10°	2902.7	2919.4	2886.0	2862.6	2785.8	2735.7	2648.9	2555.3	2545.3	2505.2	2538.6
12.5°	3063.1	3023.0	3009.6	2932.8	2856.0	2688.9	2501.9	2358.3	2238.0	2194.6	2151.2
15°	3196.7	3190.0	3166.6	3049.7	2872.7	2568.7	2214.6	1880.6	1650.1	1506.5	1486.4
17.5°	3380.4	3350.3	3306.9	3123.2	2749.1	2254.7	1650.1	1229.2	998.8	908.6	875.2
20°	3520.7	3497.3	3437.2	3106.5	2525.3	1680.2	1022.1	781.6	724.8	708.1	711.5
22.5°	3724.4	3650.9	3537.4	3023.0	2117.8	1119.0	734.9	698.1	688.1	674.7	678.1
25°	3901.5	3834.7	3597.5	2879.3	1509.8	741.5	681.4	661.4	644.7	628.0	624.6
27.5°	4058.5	3975.0	3661.0	2585.4	945.3	638.0	631.3	607.9	574.5	547.8	537.8
30°	4212.1	4115.3	3677.7	2034.2	638.0	577.9	561.2	524.4	481.0	444.3	437.6
32.5°	4469.3	4352.4	3654.3	1453.0	551.1	514.4	477.7	434.2	370.8	340.7	334.0
35°	4870.2	4693.1	3624.2	855.1	494.4	454.3	397.5	340.7	293.9	263.9	257.2
37.5°	5331.1	5023.8	3537.4	571.2	454.3	400.8	327.3	270.6	230.5	207.1	200.4
40°	6015.9	5508.2	3203.3	467.6	404.2	340.7	263.9	213.8	183.7	167.0	160.3
42.5°	6770.8	6062.6	2688.9	420.9	357.4	290.6	210.4	173.7	150.3	133.6	133.6
45°	7676.0	6640.5	2074.3	384.1	317.3	240.5	173.7	140.3	120.3	106.9	100.2
47.5°	8684.8	7164.9	1399.6	347.4	267.2	197.1	143.6	106.9	86.8	76.8	76.8
50°	9586.7	7629.2	891.9	304.0	233.8	163.7	116.9	86.8	70.1	56.8	53.4
52.5°	10405.0	7983.3	614.6	267.2	200.4	133.6	96.9	70.1	53.4	43.4	43.4
55°	11243.5	8163.7	454.3	230.5	173.7	113.6	80.2	63.5	46.8	36.7	33.4
57.5°	11931.6	8240.5	347.4	200.4	147.0	90.2	70.1	53.4	40.1	30.1	26.7
60°	12519.4	8203.8	270.6	167.0	116.9	76.8	60.1	43.4	33.4	23.4	20.0
62.5°	12863.5	7983.3	213.8	143.6	93.5	66.8	50.1	36.7	23.4	16.7	13.4
65°	12870.2	7515.7	167.0	106.9	70.1	56.8	43.4	30.1	16.7	6.7	3.3
67.5°	11948.3	6503.6	133.6	83.5	56.8	43.4	33.4	23.4	6.7	0.0	0.0
70°	9346.2	4920.3	110.2	66.8	46.8	36.7	23.4	13.4	3.3	0.0	0.0
72.5°	5955.8	2946.1	90.2	53.4	40.1	26.7	16.7	10.0	0.0	0.0	0.0
75°	2491.9	908.6	70.1	46.8	30.1	20.0	13.4	3.3	0.0	0.0	0.0
77.5°	641.3	287.3	56.8	40.1	30.1	16.7	10.0	3.3	0.0	0.0	0.0
80°	190.4	106.9	46.8	33.4	23.4	13.4	6.7	3.3	0.0	0.0	0.0
82.5°	86.8	63.5	40.1	30.1	20.0	13.4	6.7	0.0	0.0	0.0	0.0
85°	33.4	20.0	20.0	16.7	16.7	10.0	3.3	0.0	0.0	0.0	0.0
87.5°	13.4	6.7	6.7	6.7	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)