

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: P482580

Luminaire Tested: **IFLD-S-SA6C-827-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482580
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-827-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

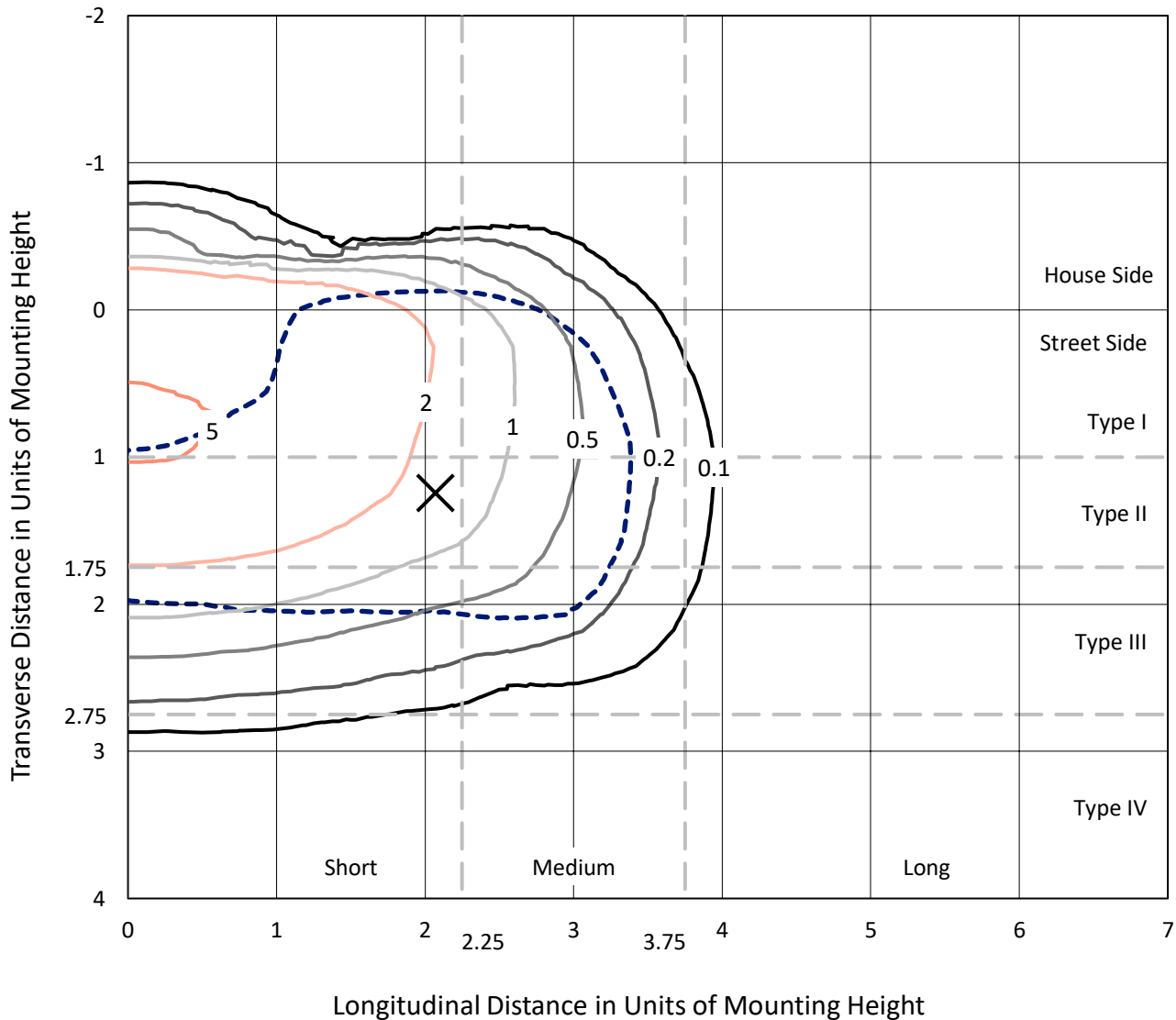
Lumens per Lamp: N/A
Luminaire Lumens: 22664.9 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 321.5
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

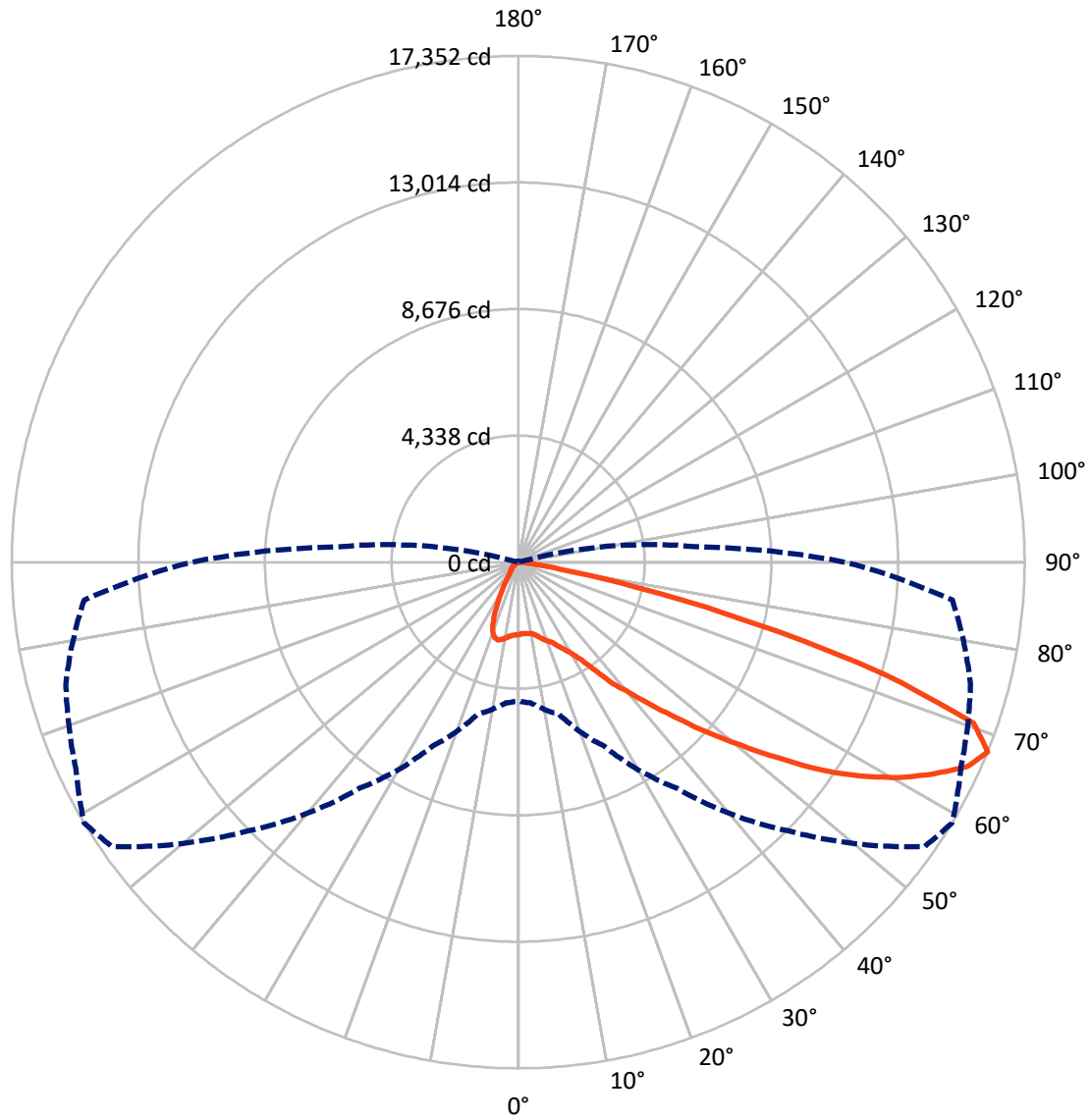
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	2662.4	0.0	2662.4
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	20002.6	0.0	20002.6
	% Fixture	88.3	0.0	88.3
Total	Lumens	22664.9	0.0	22664.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.1	1.0
10°-20°	682.1	3.0
20°-30°	1192.2	5.3
30°-40°	2098.9	9.3
40°-50°	3710.2	16.4
50°-60°	5874.6	25.9
60°-70°	6516.6	28.8
70°-80°	2261.1	10.0
80°-90°	93.1	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°	22664.9	100.0
0°-180°	22664.9	100.0

Coefficient of Utilization

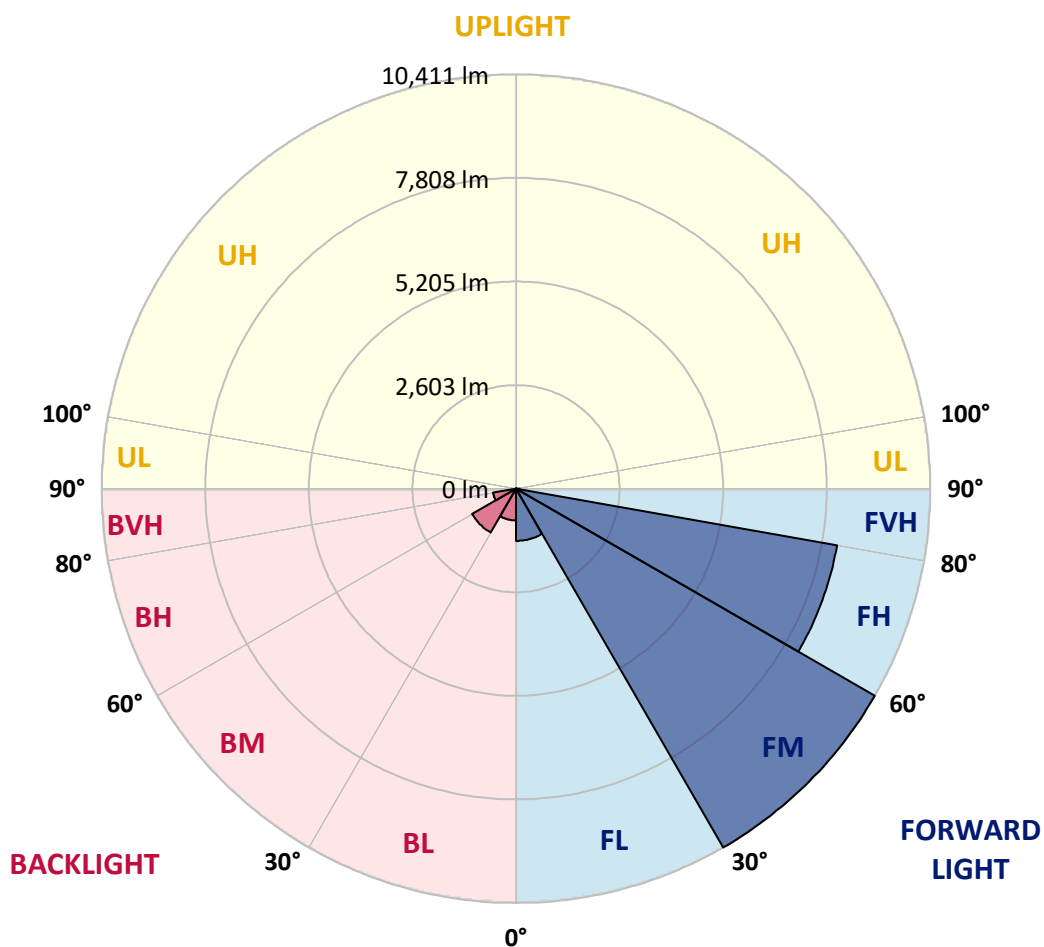


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1312.5	5.8			
FM (30°-60°)	10410.8	45.9			
FH (60°-80°)	8192.2	36.1			G4/12000
FVH (80°-90°)	87.1	0.4			G1/100
BL (0°-30°)	797.9	3.5	B2/1000		
BM (30°-60°)	1272.9	5.6	B2/2500		
BH (60°-80°)	585.5	2.6	B2/1000		G2/1000
BVH (80°-90°)	6.0	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°	2485.9	2485.9	2485.9	2485.9	2485.9	2485.9	2485.9	2485.9	2485.9	2485.9	2485.9
2.5°	2413.9	2379.5	2410.8	2413.9	2417.1	2445.2	2476.5	2454.6	2451.5	2476.5	2498.5
5°	2316.9	2301.2	2338.8	2357.6	2388.9	2413.9	2464.0	2467.2	2470.3	2498.5	2536.0
7.5°	2276.2	2238.6	2282.4	2304.3	2326.3	2385.7	2445.2	2476.5	2520.4	2554.8	2592.4
10°	2194.8	2222.9	2235.5	2273.0	2335.7	2404.5	2476.5	2492.2	2589.3	2617.4	2708.2
12.5°	2222.9	2241.7	2266.8	2276.2	2345.0	2448.4	2545.4	2551.7	2651.9	2774.0	2820.9
15°	2295.0	2282.4	2291.8	2304.3	2385.7	2470.3	2626.8	2655.0	2748.9	2886.7	3002.5
17.5°	2448.4	2426.4	2410.8	2407.7	2426.4	2504.7	2689.4	2774.0	2861.6	3049.5	3109.0
20°	2833.5	2814.7	2752.1	2589.3	2532.9	2564.2	2764.6	2883.6	3005.7	3215.4	3312.5
22.5°	3418.9	3437.7	3290.6	3062.0	2827.2	2705.1	2883.6	2986.9	3181.0	3447.1	3534.8
25°	4110.9	4073.3	3894.8	3628.7	3259.3	2971.2	3074.5	3190.4	3428.3	3647.5	3681.9
27.5°	4652.5	4608.7	4470.9	4148.4	3829.1	3362.6	3325.0	3397.0	3678.8	3876.1	3838.5
30°	5187.9	5203.6	5109.6	4727.7	4333.2	3841.6	3603.7	3635.0	3851.0	4104.6	4020.1
32.5°	5870.4	5832.9	5779.6	5444.6	4978.1	4452.1	4045.1	3995.0	4089.0	4424.0	4323.8
35°	6506.0	6484.1	6412.1	6074.0	5666.9	5094.0	4696.4	4583.6	4561.7	4934.3	4759.0
37.5°	7060.2	7022.6	6913.0	6697.0	6302.5	5820.3	5385.2	5285.0	5281.8	5538.6	5200.4
40°	7526.7	7554.9	7542.3	7304.4	7088.4	6703.3	6036.4	5876.7	5864.2	6001.9	5804.7
42.5°	8131.0	8196.7	8162.3	8115.3	7855.4	7705.2	6950.6	6706.4	6596.8	6878.6	6700.1
45°	9045.2	9070.2	9092.1	8976.3	8716.4	8747.7	7896.1	7605.0	7576.8	7996.3	7595.6
47.5°	9899.9	9834.2	9987.6	9993.8	9981.3	9837.3	8916.8	8700.8	8738.3	9057.7	8644.4
50°	10112.8	10281.9	10704.6	10782.8	10986.3	11117.8	10050.2	9834.2	9896.8	10260.0	9787.2
52.5°	10278.8	10535.5	10958.2	11531.1	12079.0	12392.1	11318.2	11142.9	11139.8	11362.0	10710.8
55°	10569.9	10726.5	11092.8	11881.8	12924.4	13437.8	12846.1	12564.3	12310.7	12467.3	11668.9
57.5°	10541.7	10601.2	11171.1	12144.8	13594.4	14527.4	14101.6	13832.3	13506.7	13415.9	12771.0
60°	10047.1	10188.0	10826.7	11966.3	14007.7	15375.9	15272.5	14997.0	14436.6	14223.7	13616.3
62.5°	9067.1	9254.9	9755.9	11340.1	13406.5	15419.7	16080.3	15977.0	15350.8	14968.8	14718.4
65°	7348.2	7435.9	8012.0	9749.6	12047.7	14746.6	17035.2	16906.9	16330.8	15761.0	15285.1
67.5°	4759.0	4843.5	5397.7	6960.0	9461.6	13008.9	16997.7	17351.5	16728.4	16042.7	14931.3
70°	2248.0	2226.1	2742.7	3866.7	6061.4	9934.4	15848.6	16546.8	16017.7	14543.0	12401.5
72.5°	685.7	745.2	1139.6	1712.6	3112.1	6196.1	12423.4	13077.8	12911.8	11618.8	8278.1
75°	303.7	328.7	447.7	701.3	1261.8	2542.3	7673.8	8256.2	8184.2	6853.5	3779.0
77.5°	194.1	212.9	281.8	400.8	573.0	807.8	3534.8	4101.5	3976.2	2407.7	989.4
80°	137.8	147.2	200.4	275.5	360.1	331.9	1217.9	1446.5	1387.0	654.4	266.1
82.5°	75.1	81.4	147.2	203.5	241.1	169.1	341.3	425.8	444.6	291.2	128.4
85°	28.2	34.4	90.8	144.0	125.2	78.3	100.2	122.1	159.7	159.7	59.5
87.5°	0.0	3.1	37.6	62.6	31.3	21.9	28.2	34.4	43.8	75.1	21.9
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°	2485.9	2485.9	2485.9	2485.9	2485.9	2485.9	2485.9	2485.9	2485.9	2485.9	2485.9
2.5°	2514.1	2492.2	2501.6	2517.2	2482.8	2501.6	2464.0	2492.2	2501.6	2464.0	2482.8
5°	2545.4	2567.3	2554.8	2529.8	2507.9	2514.1	2504.7	2482.8	2501.6	2507.9	2495.3
7.5°	2636.2	2611.2	2617.4	2589.3	2545.4	2542.3	2482.8	2467.2	2473.4	2479.7	2457.8
10°	2720.8	2736.4	2705.1	2683.2	2611.2	2564.2	2482.8	2395.1	2385.7	2348.2	2379.5
12.5°	2871.0	2833.5	2820.9	2748.9	2676.9	2520.4	2345.0	2210.4	2097.7	2057.0	2016.3
15°	2996.3	2990.0	2968.1	2858.5	2692.6	2407.7	2075.8	1762.7	1546.7	1412.0	1393.3
17.5°	3168.5	3140.3	3099.6	2927.4	2576.7	2113.4	1546.7	1152.2	936.1	851.6	820.3
20°	3300.0	3278.1	3221.7	2911.7	2367.0	1574.8	958.1	732.6	679.4	663.8	666.9
22.5°	3491.0	3422.1	3315.6	2833.5	1985.0	1048.9	688.8	654.4	645.0	632.4	635.6
25°	3656.9	3594.3	3372.0	2698.8	1415.2	695.1	638.7	619.9	604.3	588.6	585.5
27.5°	3804.0	3725.8	3431.5	2423.3	886.0	598.0	591.7	569.8	538.5	513.5	504.1
30°	3948.1	3857.3	3447.1	1906.7	598.0	541.6	526.0	491.6	450.8	416.4	410.1
32.5°	4189.1	4079.6	3425.2	1361.9	516.6	482.2	447.7	407.0	347.5	319.4	313.1
35°	4564.9	4398.9	3397.0	801.5	463.4	425.8	372.6	319.4	275.5	247.3	241.1
37.5°	4996.9	4708.9	3315.6	535.4	425.8	375.7	306.8	253.6	216.0	194.1	187.9
40°	5638.8	5162.9	3002.5	438.3	378.8	319.4	247.3	200.4	172.2	156.5	150.3
42.5°	6346.3	5682.6	2520.4	394.5	335.0	272.4	197.2	162.8	140.9	125.2	125.2
45°	7194.8	6224.2	1944.3	360.1	297.4	225.4	162.8	131.5	112.7	100.2	93.9
47.5°	8140.3	6715.8	1311.8	325.6	250.5	184.7	134.6	100.2	81.4	72.0	72.0
50°	8985.7	7151.0	836.0	284.9	219.2	153.4	109.6	81.4	65.7	53.2	50.1
52.5°	9752.8	7482.9	576.1	250.5	187.9	125.2	90.8	65.7	50.1	40.7	40.7
55°	10538.6	7651.9	425.8	216.0	162.8	106.5	75.1	59.5	43.8	34.4	31.3
57.5°	11183.6	7723.9	325.6	187.9	137.8	84.5	65.7	50.1	37.6	28.2	25.0
60°	11734.6	7689.5	253.6	156.5	109.6	72.0	56.4	40.7	31.3	21.9	18.8
62.5°	12057.1	7482.9	200.4	134.6	87.7	62.6	47.0	34.4	21.9	15.7	12.5
65°	12063.4	7044.5	156.5	100.2	65.7	53.2	40.7	28.2	15.7	6.3	3.1
67.5°	11199.2	6095.9	125.2	78.3	53.2	40.7	31.3	21.9	6.3	0.0	0.0
70°	8760.3	4611.8	103.3	62.6	43.8	34.4	21.9	12.5	3.1	0.0	0.0
72.5°	5582.4	2761.5	84.5	50.1	37.6	25.0	15.7	9.4	0.0	0.0	0.0
75°	2335.7	851.6	65.7	43.8	28.2	18.8	12.5	3.1	0.0	0.0	0.0
77.5°	601.1	269.3	53.2	37.6	28.2	15.7	9.4	3.1	0.0	0.0	0.0
80°	178.5	100.2	43.8	31.3	21.9	12.5	6.3	3.1	0.0	0.0	0.0
82.5°	81.4	59.5	37.6	28.2	18.8	12.5	6.3	0.0	0.0	0.0	0.0
85°	31.3	18.8	18.8	15.7	15.7	9.4	3.1	0.0	0.0	0.0	0.0
87.5°	12.5	6.3	6.3	6.3	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)