

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: P482432

Luminaire Tested: **IFLD-L-SA7A-735-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482432
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-735-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

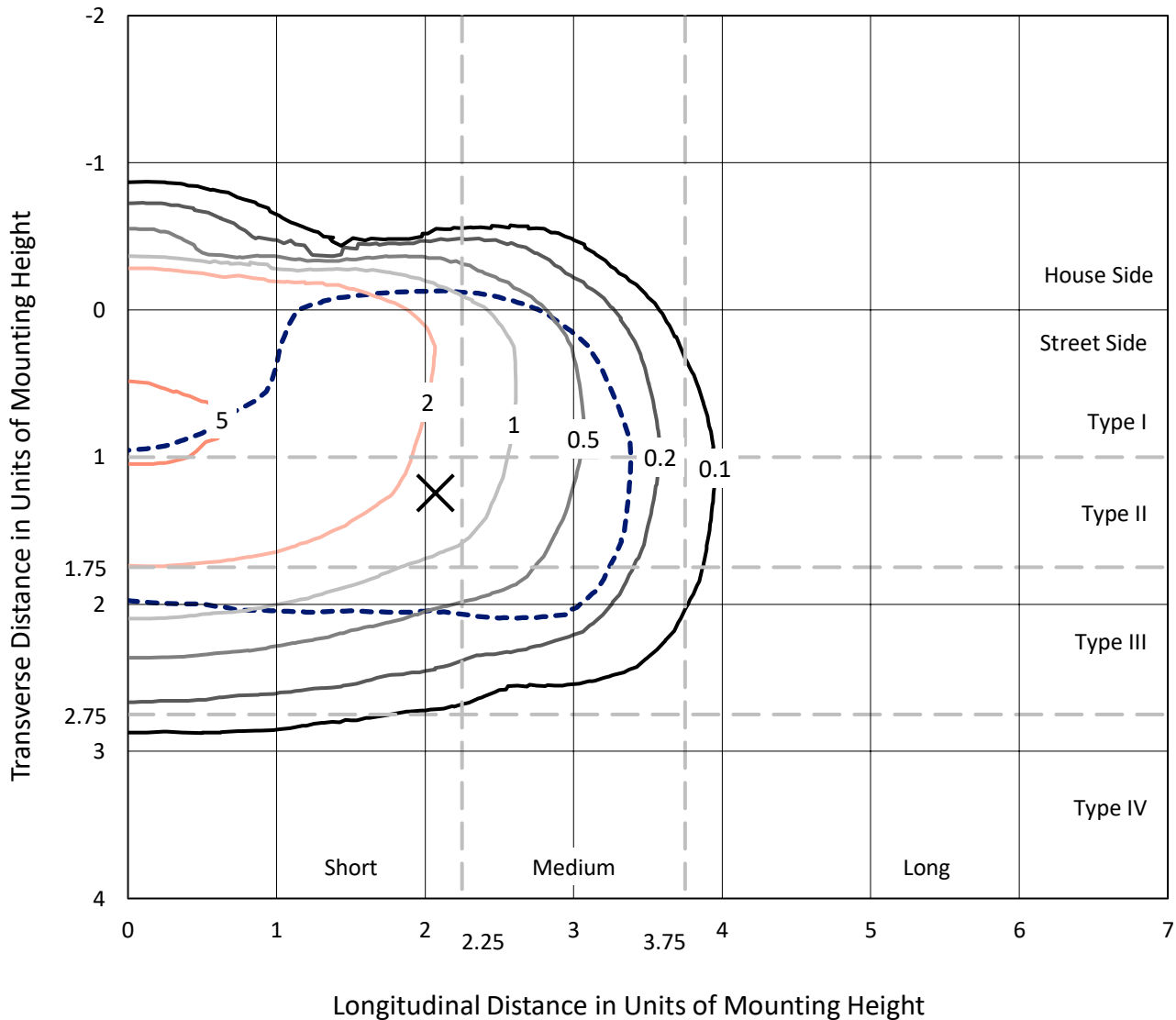
Lumens per Lamp: N/A
Luminaire Lumens: 22907.6 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 217.6
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

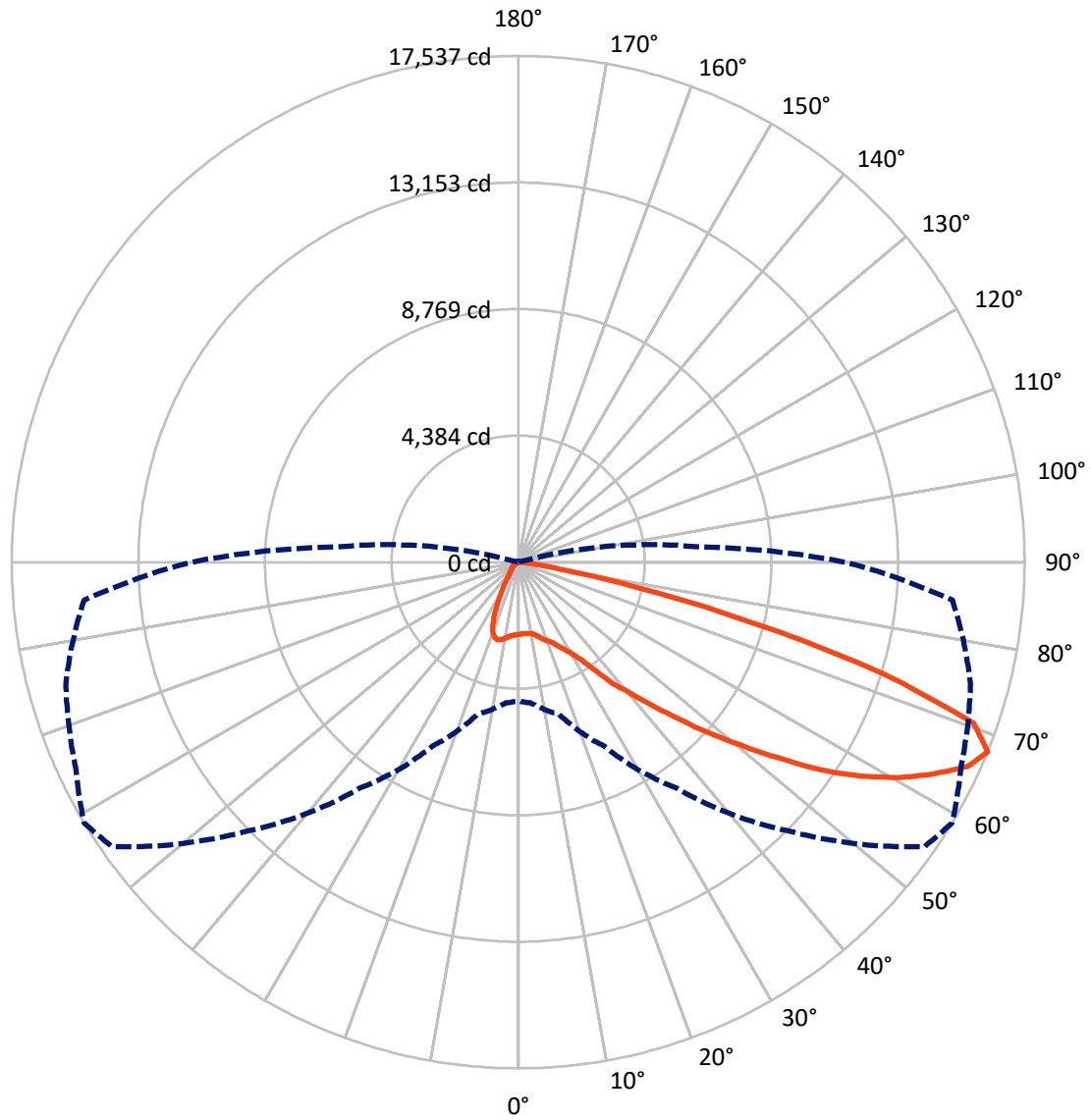
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	2690.9	0.0	2690.9
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	20216.7	0.0	20216.7
	% Fixture	88.3	0.0	88.3
Total	Lumens	22907.6	0.0	22907.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.7	1.0
10°-20°	689.4	3.0
20°-30°	1204.9	5.3
30°-40°	2121.4	9.3
40°-50°	3750.0	16.4
50°-60°	5937.5	25.9
60°-70°	6586.3	28.8
70°-80°	2285.3	10.0
80°-90°	94.1	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°	22907.6	100.0
0°-180°	22907.6	100.0

Coefficient of Utilization

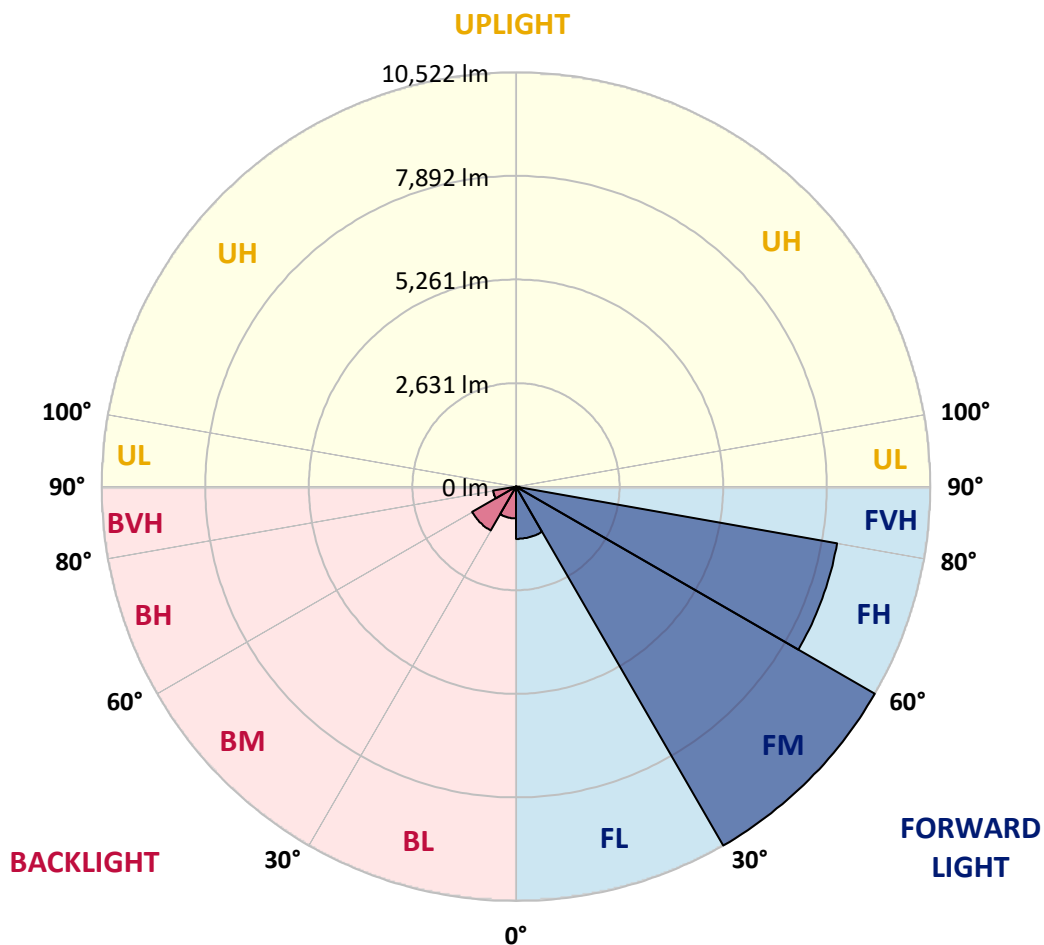


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1326.5	5.8			
FM (30°-60°)	10522.3	45.9			
FH (60°-80°)	8279.9	36.1			G4/12000
FVH (80°-90°)	88.0	0.4			G1/100
BL (0°-30°)	806.5	3.5	B2/1000		
BM (30°-60°)	1286.6	5.6	B2/2500		
BH (60°-80°)	591.8	2.6	B2/1000		G2/1000
BVH (80°-90°)	6.1	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°	2512.5	2512.5	2512.5	2512.5	2512.5	2512.5	2512.5	2512.5	2512.5	2512.5	2512.5
2.5°	2439.8	2405.0	2436.6	2439.8	2442.9	2471.4	2503.1	2480.9	2477.7	2503.1	2525.2
5°	2341.7	2325.8	2363.8	2382.8	2414.5	2439.8	2490.4	2493.6	2496.7	2525.2	2563.2
7.5°	2300.5	2262.6	2306.9	2329.0	2351.2	2411.3	2471.4	2503.1	2547.4	2582.2	2620.1
10°	2218.3	2246.7	2259.4	2297.4	2360.7	2430.3	2503.1	2518.9	2617.0	2645.5	2737.2
12.5°	2246.7	2265.7	2291.0	2300.5	2370.1	2474.6	2572.7	2579.0	2680.3	2803.7	2851.1
15°	2319.5	2306.9	2316.4	2329.0	2411.3	2496.7	2654.9	2683.4	2778.4	2917.6	3034.7
17.5°	2474.6	2452.4	2436.6	2433.4	2452.4	2531.5	2718.2	2803.7	2892.3	3082.1	3142.3
20°	2863.8	2844.8	2781.5	2617.0	2560.0	2591.7	2794.2	2914.4	3037.8	3249.9	3348.0
22.5°	3455.5	3474.5	3325.8	3094.8	2857.5	2734.1	2914.4	3018.9	3215.0	3484.0	3572.6
25°	4154.9	4116.9	3936.5	3667.6	3294.2	3003.0	3107.5	3224.5	3465.0	3686.5	3721.4
27.5°	4702.3	4658.0	4518.8	4192.9	3870.1	3398.6	3360.6	3433.4	3718.2	3917.5	3879.6
30°	5243.4	5259.3	5164.3	4778.3	4379.6	3882.7	3642.2	3673.9	3892.2	4148.6	4063.1
32.5°	5933.3	5895.3	5841.5	5502.9	5031.4	4499.8	4088.4	4037.8	4132.7	4471.3	4370.1
35°	6575.7	6553.5	6480.7	6139.0	5727.6	5148.5	4746.6	4632.7	4610.6	4987.1	4809.9
37.5°	7135.8	7097.8	6987.0	6768.7	6370.0	5882.7	5442.8	5341.5	5338.4	5597.9	5256.1
40°	7607.3	7635.7	7623.1	7382.6	7164.2	6775.0	6101.0	5939.6	5927.0	6066.2	5866.8
42.5°	8218.0	8284.4	8249.6	8202.2	7939.5	7787.6	7025.0	6778.2	6667.4	6952.2	6771.9
45°	9142.0	9167.3	9189.5	9072.4	8809.7	8841.4	7980.7	7686.4	7657.9	8081.9	7676.9
47.5°	10005.9	9939.4	10094.5	10100.8	10088.2	9942.6	9012.3	8793.9	8831.9	9154.7	8737.0
50°	10221.1	10391.9	10819.1	10898.3	11103.9	11236.8	10157.8	9939.4	10002.7	10369.8	9892.0
52.5°	10388.8	10648.3	11075.5	11654.5	12208.3	12524.8	11439.4	11262.2	11259.0	11483.7	10825.5
55°	10683.1	10841.3	11211.5	12009.0	13062.7	13581.7	12983.6	12698.8	12442.5	12600.7	11793.8
57.5°	10654.6	10714.7	11290.6	12274.8	13739.9	14682.9	14252.5	13980.4	13651.3	13559.5	12907.7
60°	10154.6	10297.0	10942.6	12094.4	14157.6	15540.5	15436.0	15157.6	14591.1	14375.9	13762.1
62.5°	9164.2	9354.0	9860.3	11461.5	13550.0	15584.8	16252.4	16148.0	15515.1	15129.1	14875.9
65°	7426.9	7515.5	8097.7	9854.0	12176.7	14904.4	17217.6	17087.9	16505.6	15929.7	15448.7
67.5°	4809.9	4895.4	5455.5	7034.5	9562.9	13148.2	17179.6	17537.2	16907.5	16214.5	15091.1
70°	2272.1	2249.9	2772.0	3908.1	6126.3	10040.7	16018.3	16723.9	16189.2	14698.7	12534.3
72.5°	693.0	753.1	1151.8	1730.9	3145.4	6262.4	12556.4	13217.8	13050.1	11743.2	8366.7
75°	306.9	332.3	452.5	708.8	1275.3	2569.5	7756.0	8344.6	8271.8	6926.9	3819.5
77.5°	196.2	215.2	284.8	405.0	579.1	816.4	3572.6	4145.4	4018.8	2433.4	1000.0
80°	139.2	148.7	202.5	278.5	363.9	335.4	1231.0	1462.0	1401.8	661.4	269.0
82.5°	75.9	82.3	148.7	205.7	243.7	170.9	344.9	430.4	449.3	294.3	129.7
85°	28.5	34.8	91.8	145.6	126.6	79.1	101.3	123.4	161.4	161.4	60.1
87.5°	0.0	3.2	38.0	63.3	31.6	22.2	28.5	34.8	44.3	75.9	22.2
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°	2512.5	2512.5	2512.5	2512.5	2512.5	2512.5	2512.5	2512.5	2512.5	2512.5	2512.5
2.5°	2541.0	2518.9	2528.4	2544.2	2509.4	2528.4	2490.4	2518.9	2528.4	2490.4	2509.4
5°	2572.7	2594.8	2582.2	2556.8	2534.7	2541.0	2531.5	2509.4	2528.4	2534.7	2522.0
7.5°	2664.4	2639.1	2645.5	2617.0	2572.7	2569.5	2509.4	2493.6	2499.9	2506.2	2484.1
10°	2749.9	2765.7	2734.1	2711.9	2639.1	2591.7	2509.4	2420.8	2411.3	2373.3	2405.0
12.5°	2901.8	2863.8	2851.1	2778.4	2705.6	2547.4	2370.1	2234.1	2120.2	2079.0	2037.9
15°	3028.3	3022.0	2999.9	2889.1	2721.4	2433.4	2098.0	1781.6	1563.2	1427.2	1408.2
17.5°	3202.4	3173.9	3132.8	2958.7	2604.3	2136.0	1563.2	1164.5	946.2	860.7	829.1
20°	3335.3	3313.1	3256.2	2942.9	2392.3	1591.7	968.3	740.5	686.7	670.9	674.0
22.5°	3528.3	3458.7	3351.1	2863.8	2006.2	1060.1	696.2	661.4	651.9	639.2	642.4
25°	3696.0	3632.8	3408.1	2727.7	1430.3	702.5	645.5	626.6	610.7	594.9	591.7
27.5°	3844.8	3765.7	3468.2	2449.3	895.5	604.4	598.1	575.9	544.3	519.0	509.5
30°	3990.3	3898.6	3484.0	1927.1	604.4	547.4	531.6	496.8	455.7	420.9	414.5
32.5°	4234.0	4123.2	3461.9	1376.5	522.1	487.3	452.5	411.4	351.3	322.8	316.4
35°	4613.7	4446.0	3433.4	810.1	468.3	430.4	376.6	322.8	278.5	250.0	243.7
37.5°	5050.4	4759.3	3351.1	541.1	430.4	379.7	310.1	256.3	218.3	196.2	189.9
40°	5699.1	5218.1	3034.7	443.0	382.9	322.8	250.0	202.5	174.0	158.2	151.9
42.5°	6414.3	5743.4	2547.4	398.7	338.6	275.3	199.4	164.5	142.4	126.6	126.6
45°	7271.8	6290.9	1965.1	363.9	300.6	227.8	164.5	132.9	113.9	101.3	94.9
47.5°	8227.5	6787.7	1325.9	329.1	253.2	186.7	136.1	101.3	82.3	72.8	72.8
50°	9081.9	7227.5	844.9	288.0	221.5	155.1	110.8	82.3	66.5	53.8	50.6
52.5°	9857.2	7563.0	582.3	253.2	189.9	126.6	91.8	66.5	50.6	41.1	41.1
55°	10651.4	7733.8	430.4	218.3	164.5	107.6	75.9	60.1	44.3	34.8	31.6
57.5°	11303.3	7806.6	329.1	189.9	139.2	85.4	66.5	50.6	38.0	28.5	25.3
60°	11860.2	7771.8	256.3	158.2	110.8	72.8	57.0	41.1	31.6	22.2	19.0
62.5°	12186.2	7563.0	202.5	136.1	88.6	63.3	47.5	34.8	22.2	15.8	12.7
65°	12192.5	7119.9	158.2	101.3	66.5	53.8	41.1	28.5	15.8	6.3	3.2
67.5°	11319.1	6161.1	126.6	79.1	53.8	41.1	31.6	22.2	6.3	0.0	0.0
70°	8854.0	4661.2	104.4	63.3	44.3	34.8	22.2	12.7	3.2	0.0	0.0
72.5°	5642.2	2791.0	85.4	50.6	38.0	25.3	15.8	9.5	0.0	0.0	0.0
75°	2360.7	860.7	66.5	44.3	28.5	19.0	12.7	3.2	0.0	0.0	0.0
77.5°	607.6	272.1	53.8	38.0	28.5	15.8	9.5	3.2	0.0	0.0	0.0
80°	180.4	101.3	44.3	31.6	22.2	12.7	6.3	3.2	0.0	0.0	0.0
82.5°	82.3	60.1	38.0	28.5	19.0	12.7	6.3	0.0	0.0	0.0	0.0
85°	31.6	19.0	19.0	15.8	15.8	9.5	3.2	0.0	0.0	0.0	0.0
87.5°	12.7	6.3	6.3	6.3	3.2	3.2	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)