

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: P482468

Luminaire Tested: **IFLD-M-SA4C-740-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482468
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-740-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

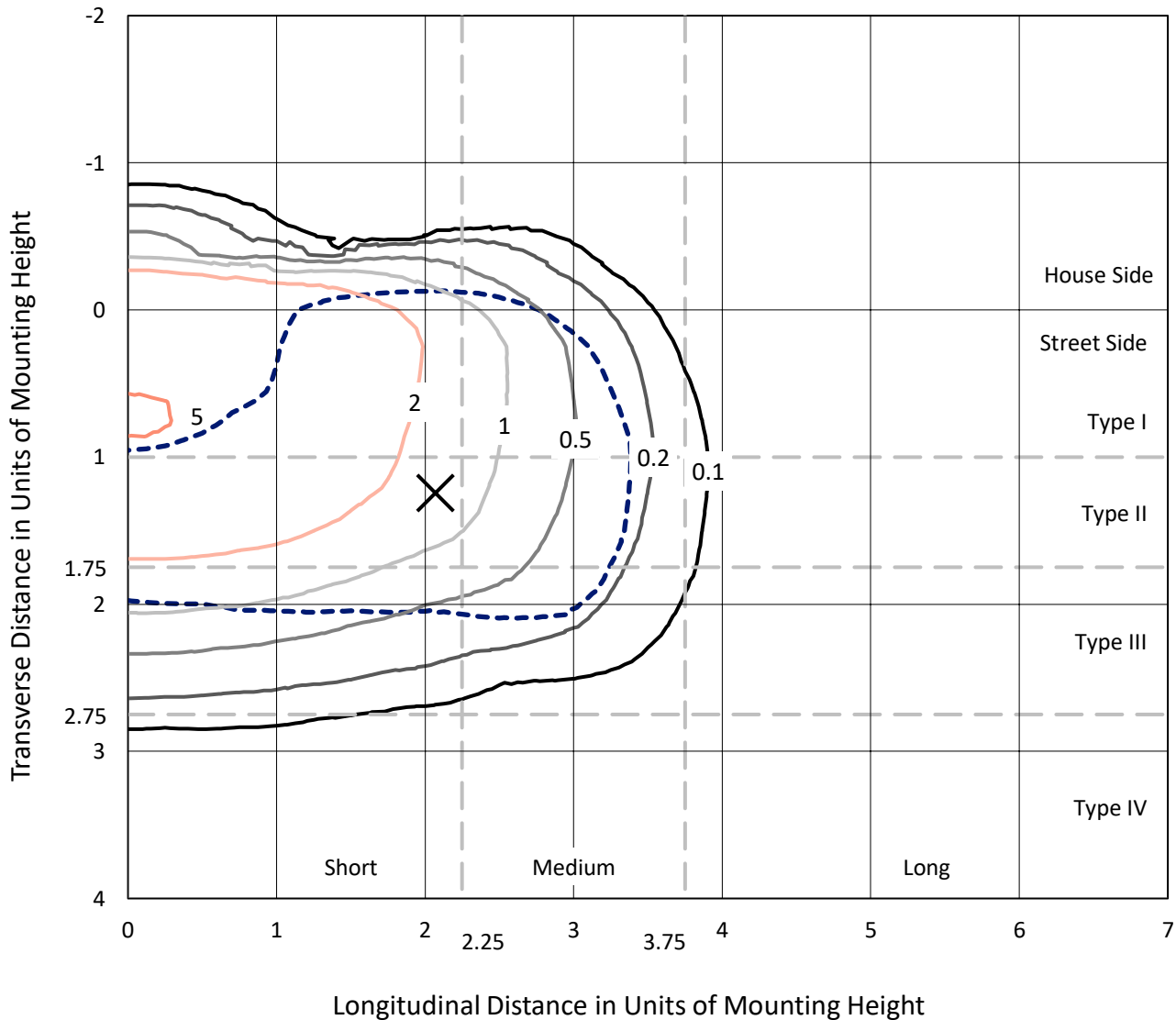
Lumens per Lamp: N/A
Luminaire Lumens: 21097 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 218.1
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

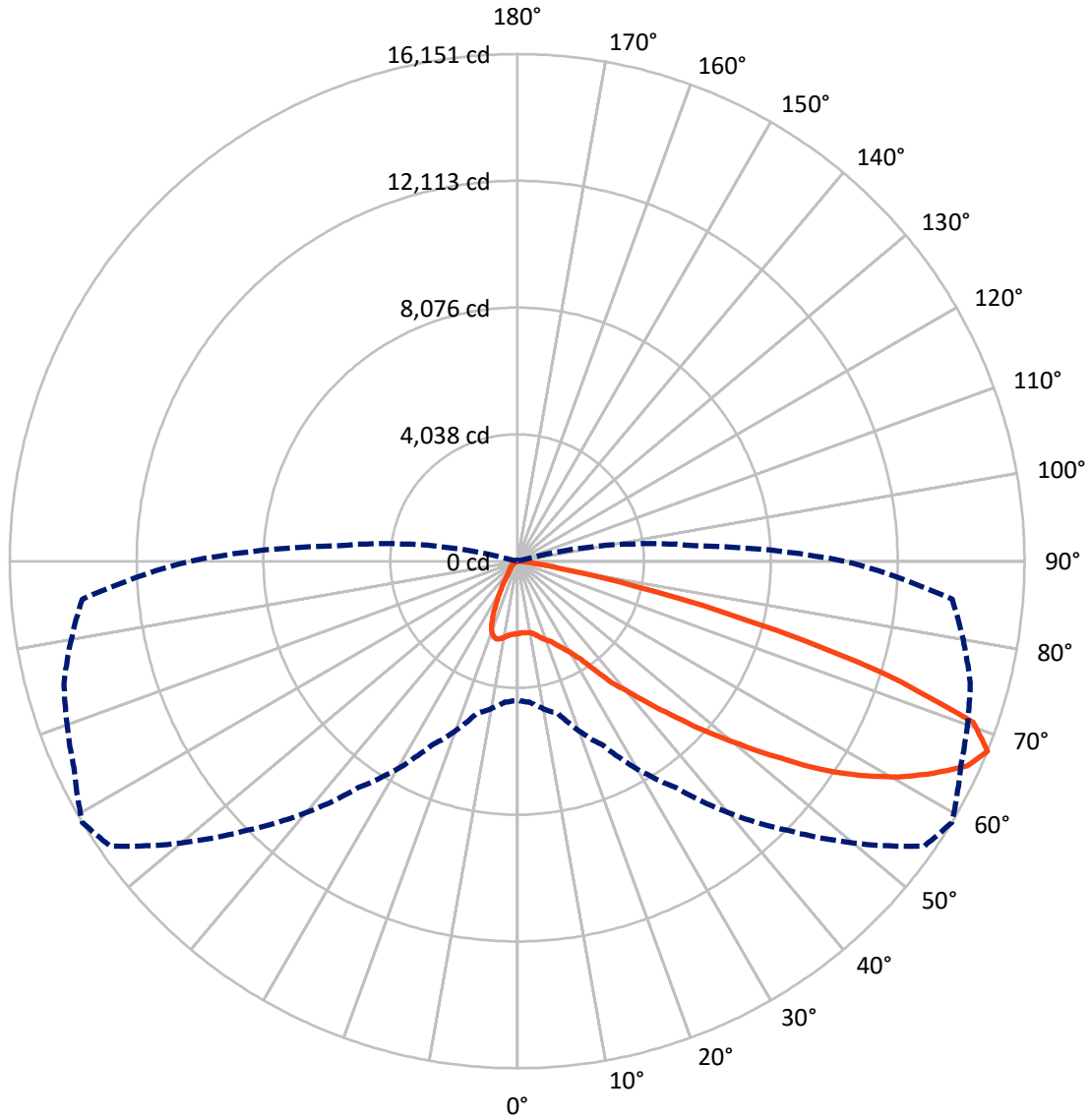
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	2478.2	0.0	2478.2
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	18618.8	0.0	18618.8
	% Fixture	88.3	0.0	88.3
Total	Lumens	21097.0	0.0	21097.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.8	1.0
10°-20°	634.9	3.0
20°-30°	1109.7	5.3
30°-40°	1953.7	9.3
40°-50°	3453.6	16.4
50°-60°	5468.2	25.9
60°-70°	6065.8	28.8
70°-80°	2104.7	10.0
80°-90°	86.7	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°	21097.0	100.0
0°-180°	21097.0	100.0

Coefficient of Utilization

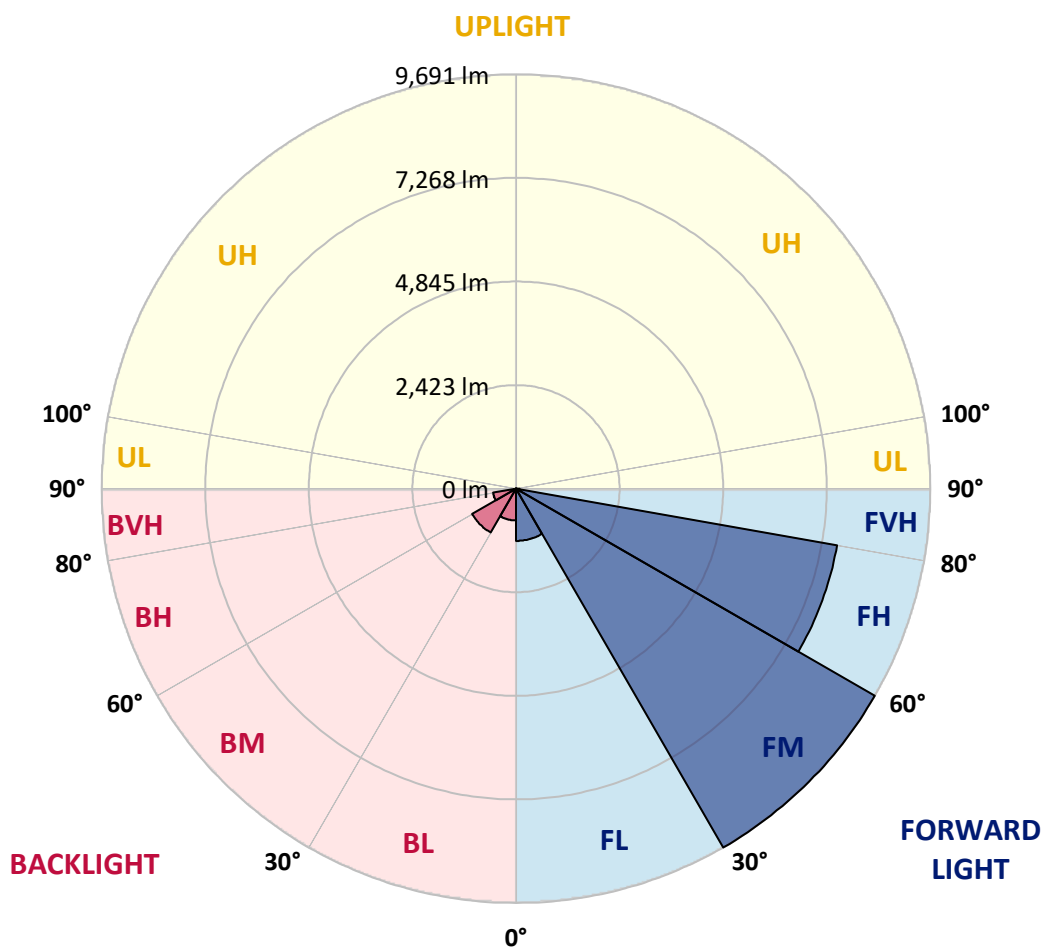


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1221.7	5.8			
FM (30°-60°)	9690.6	45.9			
FH (60°-80°)	7625.4	36.1			G4/12000
FVH (80°-90°)	81.1	0.4			G1/100
BL (0°-30°)	742.7	3.5	B2/1000		
BM (30°-60°)	1184.9	5.6	B2/2500		
BH (60°-80°)	545.0	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°	2314.0	2314.0	2314.0	2314.0	2314.0	2314.0	2314.0	2314.0	2314.0	2314.0	2314.0
2.5°	2246.9	2214.9	2244.0	2246.9	2249.8	2276.1	2305.2	2284.8	2281.9	2305.2	2325.6
5°	2156.6	2142.0	2177.0	2194.5	2223.6	2246.9	2293.6	2296.5	2299.4	2325.6	2360.6
7.5°	2118.7	2083.7	2124.5	2144.9	2165.3	2220.7	2276.1	2305.2	2346.0	2378.1	2413.0
10°	2042.9	2069.2	2080.8	2115.8	2174.1	2238.2	2305.2	2319.8	2410.1	2436.4	2520.9
12.5°	2069.2	2086.6	2110.0	2118.7	2182.8	2279.0	2369.3	2375.2	2468.4	2582.1	2625.8
15°	2136.2	2124.5	2133.3	2144.9	2220.7	2299.4	2445.1	2471.3	2558.8	2687.0	2794.8
17.5°	2279.0	2258.6	2244.0	2241.1	2258.6	2331.4	2503.4	2582.1	2663.7	2838.5	2893.9
20°	2637.5	2620.0	2561.7	2410.1	2357.7	2386.8	2573.3	2684.1	2797.7	2993.0	3083.3
22.5°	3182.4	3199.9	3062.9	2850.2	2631.6	2518.0	2684.1	2780.3	2960.9	3208.7	3290.3
25°	3826.5	3791.5	3625.4	3377.7	3033.8	2765.7	2861.9	2969.7	3191.2	3395.2	3427.2
27.5°	4330.7	4289.9	4161.6	3861.5	3564.2	3130.0	3095.0	3162.0	3424.3	3607.9	3572.9
30°	4829.0	4843.6	4756.2	4400.6	4033.4	3575.9	3354.4	3383.5	3584.6	3820.7	3742.0
32.5°	5464.3	5429.4	5379.8	5068.0	4633.8	4144.1	3765.3	3718.7	3806.1	4117.9	4024.7
35°	6055.9	6035.5	5968.5	5653.8	5274.9	4741.6	4371.5	4266.5	4246.1	4593.0	4429.8
37.5°	6571.8	6536.8	6434.8	6233.7	5866.5	5417.7	5012.6	4919.4	4916.4	5155.4	4840.7
40°	7006.0	7032.2	7020.6	6799.1	6598.0	6239.5	5618.8	5470.2	5458.5	5586.7	5403.1
42.5°	7568.5	7629.7	7597.6	7553.9	7312.0	7172.1	6469.8	6242.5	6140.5	6402.7	6236.6
45°	8419.4	8442.8	8463.2	8355.3	8113.4	8142.6	7349.9	7078.9	7052.6	7443.1	7070.1
47.5°	9215.0	9153.8	9296.6	9302.5	9290.8	9156.8	8300.0	8098.9	8133.8	8431.1	8046.4
50°	9413.2	9570.6	9964.0	10036.9	10226.3	10348.7	9354.9	9153.8	9212.1	9550.2	9110.1
52.5°	9567.7	9806.7	10200.1	10733.4	11243.4	11534.8	10535.2	10372.0	10369.1	10576.0	9969.9
55°	9838.7	9984.4	10325.4	11059.8	12030.3	12508.2	11957.4	11695.1	11459.1	11604.8	10861.6
57.5°	9812.5	9867.9	10398.3	11304.6	12653.9	13522.4	13126.0	12875.4	12572.3	12487.8	11887.5
60°	9352.0	9483.2	10077.7	11138.5	13038.6	14312.2	14216.0	13959.5	13437.9	13239.7	12674.3
62.5°	8439.8	8614.7	9081.0	10555.6	12479.1	14353.0	14967.9	14871.7	14288.9	13933.3	13700.2
65°	6839.9	6921.5	7457.7	9075.2	11214.3	13726.4	15856.8	15737.3	15201.0	14670.6	14227.7
67.5°	4429.8	4508.4	5024.3	6478.5	8807.0	12109.0	15821.8	16151.1	15571.2	14932.9	13898.3
70°	2092.5	2072.1	2552.9	3599.2	5642.1	9247.1	14752.2	15402.1	14909.6	13537.0	11543.6
72.5°	638.2	693.6	1060.8	1594.1	2896.8	5767.4	11564.0	12173.1	12018.6	10815.0	7705.4
75°	282.7	306.0	416.7	652.8	1174.5	2366.4	7143.0	7685.0	7618.0	6379.4	3517.6
77.5°	180.7	198.2	262.3	373.0	533.3	751.9	3290.3	3817.7	3701.2	2241.1	920.9
80°	128.2	137.0	186.5	256.5	335.1	308.9	1133.7	1346.4	1291.0	609.1	247.7
82.5°	69.9	75.8	137.0	189.4	224.4	157.4	317.7	396.3	413.8	271.0	119.5
85°	26.2	32.1	84.5	134.1	116.6	72.9	93.3	113.7	148.6	148.6	55.4
87.5°	0.0	2.9	35.0	58.3	29.1	20.4	26.2	32.1	40.8	69.9	20.4
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°	2314.0	2314.0	2314.0	2314.0	2314.0	2314.0	2314.0	2314.0	2314.0	2314.0	2314.0
2.5°	2340.2	2319.8	2328.5	2343.1	2311.0	2328.5	2293.6	2319.8	2328.5	2293.6	2311.0
5°	2369.3	2389.7	2378.1	2354.8	2334.4	2340.2	2331.4	2311.0	2328.5	2334.4	2322.7
7.5°	2453.8	2430.5	2436.4	2410.1	2369.3	2366.4	2311.0	2296.5	2302.3	2308.1	2287.7
10°	2532.5	2547.1	2518.0	2497.6	2430.5	2386.8	2311.0	2229.4	2220.7	2185.7	2214.9
12.5°	2672.4	2637.5	2625.8	2558.8	2491.7	2346.0	2182.8	2057.5	1952.6	1914.7	1876.8
15°	2789.0	2783.2	2762.8	2660.8	2506.3	2241.1	1932.2	1640.8	1439.7	1314.4	1296.9
17.5°	2949.3	2923.1	2885.2	2724.9	2398.5	1967.2	1439.7	1072.5	871.4	792.7	763.5
20°	3071.7	3051.3	2998.8	2710.3	2203.2	1465.9	891.8	681.9	632.4	617.8	620.7
22.5°	3249.5	3185.3	3086.3	2637.5	1847.7	976.3	641.1	609.1	600.3	588.7	591.6
25°	3403.9	3345.6	3138.7	2512.1	1317.3	647.0	594.5	577.0	562.5	547.9	545.0
27.5°	3540.9	3468.0	3194.1	2255.7	824.7	556.6	550.8	530.4	501.3	477.9	469.2
30°	3674.9	3590.4	3208.7	1774.8	556.6	504.2	489.6	457.5	419.7	387.6	381.8
32.5°	3899.3	3797.3	3188.3	1267.7	480.9	448.8	416.7	378.9	323.5	297.3	291.4
35°	4249.1	4094.6	3162.0	746.1	431.3	396.3	346.8	297.3	256.5	230.2	224.4
37.5°	4651.2	4383.1	3086.3	498.3	396.3	349.7	285.6	236.1	201.1	180.7	174.9
40°	5248.7	4805.7	2794.8	408.0	352.6	297.3	230.2	186.5	160.3	145.7	139.9
42.5°	5907.3	5289.5	2346.0	367.2	311.8	253.5	183.6	151.5	131.1	116.6	116.6
45°	6697.1	5793.6	1809.8	335.1	276.9	209.8	151.5	122.4	104.9	93.3	87.4
47.5°	7577.2	6251.2	1221.1	303.1	233.1	171.9	125.3	93.3	75.8	67.0	67.0
50°	8364.1	6656.3	778.1	265.2	204.0	142.8	102.0	75.8	61.2	49.5	46.6
52.5°	9078.1	6965.2	536.2	233.1	174.9	116.6	84.5	61.2	46.6	37.9	37.9
55°	9809.6	7122.6	396.3	201.1	151.5	99.1	69.9	55.4	40.8	32.1	29.1
57.5°	10409.9	7189.6	303.1	174.9	128.2	78.7	61.2	46.6	35.0	26.2	23.3
60°	10922.8	7157.5	236.1	145.7	102.0	67.0	52.5	37.9	29.1	20.4	17.5
62.5°	11223.0	6965.2	186.5	125.3	81.6	58.3	43.7	32.1	20.4	14.6	11.7
65°	11228.8	6557.2	145.7	93.3	61.2	49.5	37.9	26.2	14.6	5.8	2.9
67.5°	10424.5	5674.2	116.6	72.9	49.5	37.9	29.1	20.4	5.8	0.0	0.0
70°	8154.2	4292.8	96.2	58.3	40.8	32.1	20.4	11.7	2.9	0.0	0.0
72.5°	5196.2	2570.4	78.7	46.6	35.0	23.3	14.6	8.7	0.0	0.0	0.0
75°	2174.1	792.7	61.2	40.8	26.2	17.5	11.7	2.9	0.0	0.0	0.0
77.5°	559.5	250.6	49.5	35.0	26.2	14.6	8.7	2.9	0.0	0.0	0.0
80°	166.1	93.3	40.8	29.1	20.4	11.7	5.8	2.9	0.0	0.0	0.0
82.5°	75.8	55.4	35.0	26.2	17.5	11.7	5.8	0.0	0.0	0.0	0.0
85°	29.1	17.5	17.5	14.6	14.6	8.7	2.9	0.0	0.0	0.0	0.0
87.5°	11.7	5.8	5.8	5.8	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)