

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: P482507

Luminaire Tested: **IFLD-M-SA4C-750-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482507
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-750-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

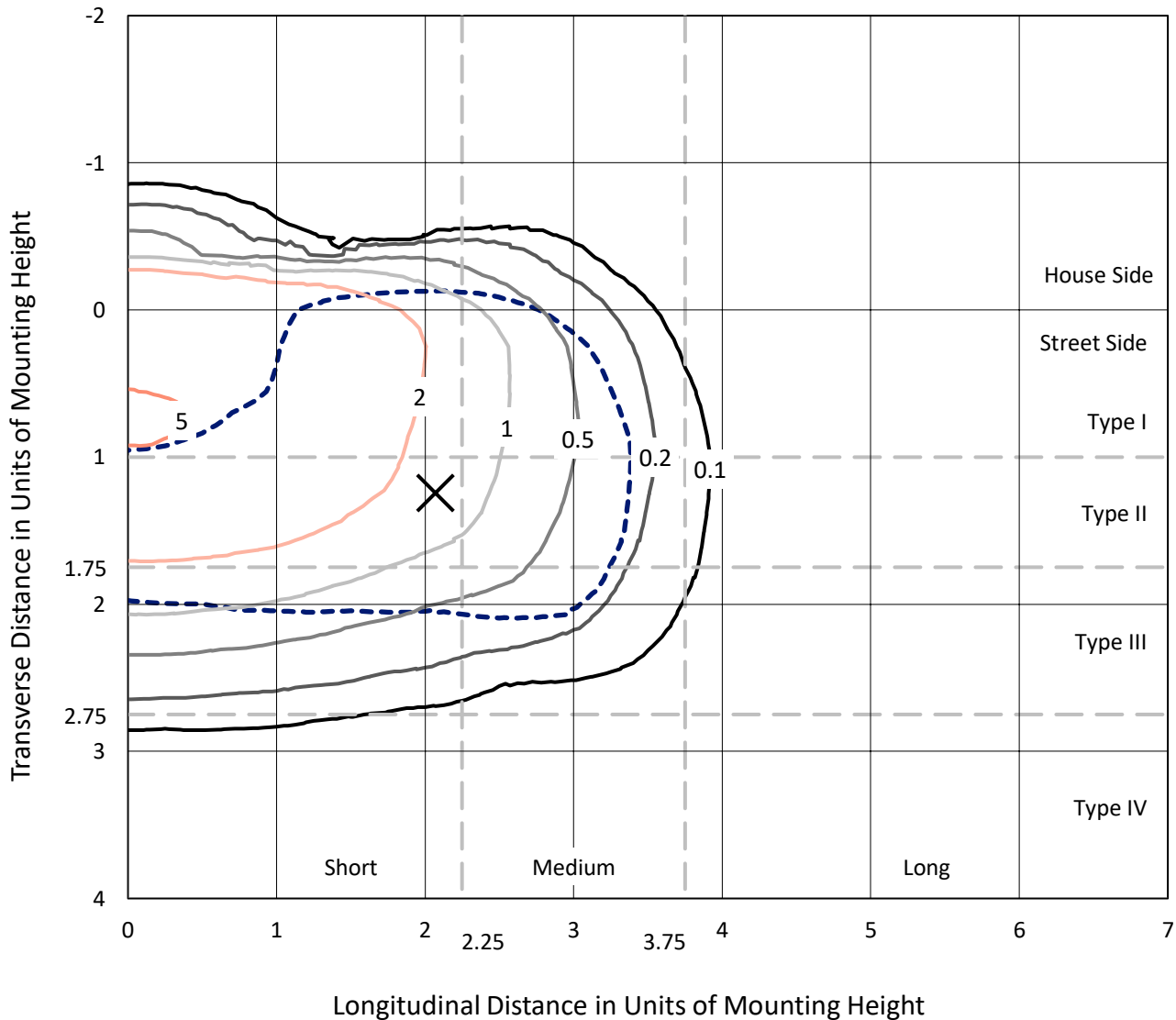
Lumens per Lamp: N/A
Luminaire Lumens: 21580.1 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

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

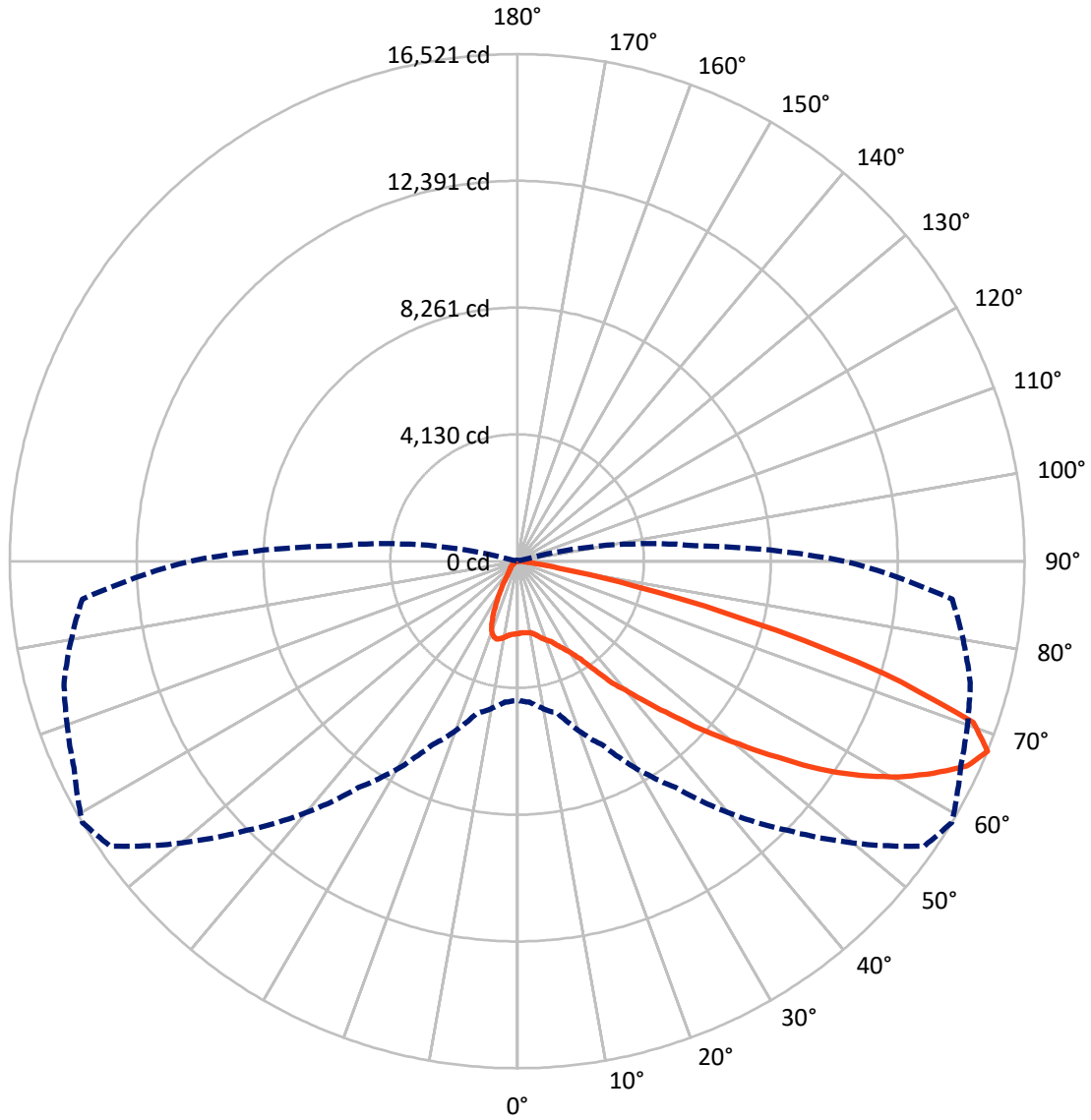
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	2535.0	0.0	2535.0
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	19045.2	0.0	19045.2
	% Fixture	88.3	0.0	88.3
Total	Lumens	21580.1	0.0	21580.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.8	1.0
10°-20°	649.5	3.0
20°-30°	1135.1	5.3
30°-40°	1998.5	9.3
40°-50°	3532.6	16.4
50°-60°	5593.4	25.9
60°-70°	6204.7	28.8
70°-80°	2152.9	10.0
80°-90°	88.7	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°	21580.1	100.0
0°-180°	21580.1	100.0

Coefficient of Utilization



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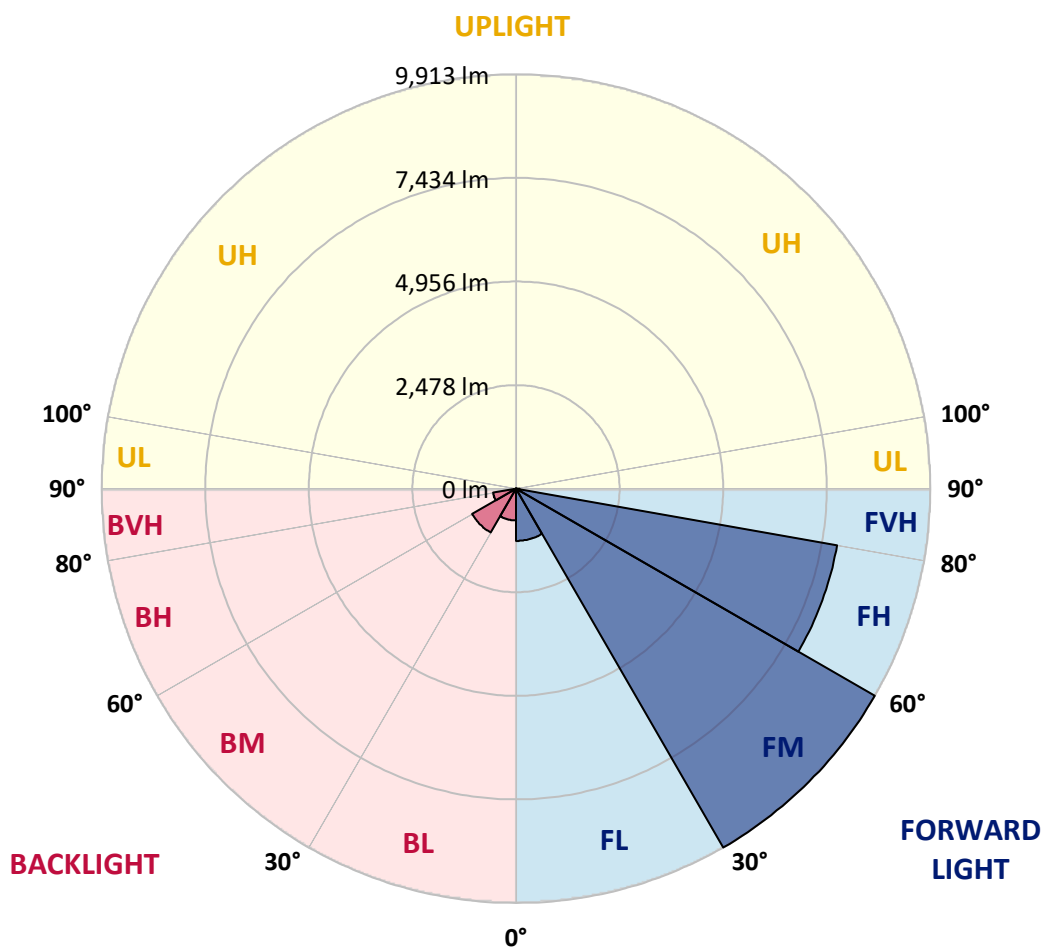
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1249.6	5.8			
FM (30°-60°)	9912.6	45.9			
FH (60°-80°)	7800.1	36.1			G4/12000
FVH (80°-90°)	82.9	0.4			G1/100
BL (0°-30°)	759.7	3.5	B2/1000		
BM (30°-60°)	1212.0	5.6	B2/2500		
BH (60°-80°)	557.5	2.6	B2/1000		G2/1000
BVH (80°-90°)	5.7	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°	2367.0	2367.0	2367.0	2367.0	2367.0	2367.0	2367.0	2367.0	2367.0	2367.0	2367.0
2.5°	2298.4	2265.6	2295.4	2298.4	2301.4	2328.2	2358.0	2337.1	2334.2	2358.0	2378.9
5°	2206.0	2191.1	2226.8	2244.7	2274.5	2298.4	2346.1	2349.1	2352.0	2378.9	2414.6
7.5°	2167.2	2131.4	2173.2	2194.1	2214.9	2271.6	2328.2	2358.0	2399.7	2432.5	2468.3
10°	2089.7	2116.5	2128.5	2164.2	2223.9	2289.4	2358.0	2372.9	2465.3	2492.2	2578.6
12.5°	2116.5	2134.4	2158.3	2167.2	2232.8	2331.2	2423.6	2429.6	2524.9	2641.2	2685.9
15°	2185.1	2173.2	2182.1	2194.1	2271.6	2352.0	2501.1	2527.9	2617.4	2748.5	2858.8
17.5°	2331.2	2310.3	2295.4	2292.4	2310.3	2384.8	2560.7	2641.2	2724.7	2903.5	2960.2
20°	2697.8	2680.0	2620.3	2465.3	2411.7	2441.5	2632.3	2745.5	2861.8	3061.5	3153.9
22.5°	3255.3	3273.2	3133.1	2915.5	2691.9	2575.6	2745.5	2843.9	3028.7	3282.1	3365.6
25°	3914.1	3878.3	3708.4	3455.0	3103.3	2829.0	2927.4	3037.7	3264.2	3472.9	3505.7
27.5°	4429.8	4388.1	4256.9	3949.9	3645.8	3201.6	3165.9	3234.4	3502.7	3690.5	3654.8
30°	4939.6	4954.5	4865.1	4501.4	4125.8	3657.7	3431.2	3461.0	3666.7	3908.2	3827.7
32.5°	5589.5	5553.7	5503.0	5184.0	4739.9	4239.0	3851.5	3803.8	3893.2	4212.2	4116.8
35°	6194.6	6173.7	6105.2	5783.2	5395.7	4850.2	4471.6	4364.3	4343.4	4698.1	4531.2
37.5°	6722.3	6686.5	6582.2	6376.5	6000.8	5541.8	5127.4	5032.0	5029.0	5273.5	4951.5
40°	7166.4	7193.3	7181.3	6954.8	6749.1	6382.4	5747.5	5595.4	5583.5	5714.7	5526.9
42.5°	7741.8	7804.4	7771.6	7726.9	7479.4	7336.4	6617.9	6385.4	6281.1	6549.4	6379.4
45°	8612.2	8636.1	8657.0	8546.7	8299.2	8329.0	7518.2	7241.0	7214.1	7613.6	7232.0
47.5°	9426.1	9363.5	9509.5	9515.5	9503.6	9366.5	8490.0	8284.3	8320.1	8624.2	8230.7
50°	9628.8	9789.8	10192.2	10266.7	10460.5	10585.7	9569.2	9363.5	9423.1	9768.9	9318.8
52.5°	9786.8	10031.2	10433.7	10979.2	11500.9	11799.0	10776.5	10609.5	10606.6	10818.2	10198.2
55°	10064.0	10213.1	10561.9	11313.1	12305.8	12794.7	12231.2	11962.9	11721.5	11870.5	11110.4
57.5°	10037.2	10093.8	10636.4	11563.5	12943.7	13832.1	13426.6	13170.3	12860.2	12773.8	12159.7
60°	9566.2	9700.3	10308.5	11393.6	13337.2	14639.9	14541.5	14279.2	13745.6	13542.9	12964.6
62.5°	8633.1	8812.0	9288.9	10797.4	12764.8	14681.7	15310.7	15212.3	14616.1	14252.4	14013.9
65°	6996.5	7080.0	7628.5	9283.0	11471.1	14040.7	16219.9	16097.7	15549.1	15006.6	14553.5
67.5°	4531.2	4611.7	5139.3	6626.9	9008.7	12386.3	16184.1	16521.0	15927.7	15274.9	14216.6
70°	2140.4	2119.5	2611.4	3681.6	5771.3	9458.9	15090.1	15754.8	15251.0	13847.0	11807.9
72.5°	652.8	709.5	1085.1	1630.6	2963.2	5899.5	11828.8	12451.8	12293.8	11062.7	7881.9
75°	289.2	313.0	426.3	667.8	1201.4	2420.6	7306.5	7861.0	7792.5	6525.5	3598.1
77.5°	184.8	202.7	268.3	381.6	545.5	769.1	3365.6	3905.2	3785.9	2292.4	942.0
80°	131.2	140.1	190.8	262.3	342.8	316.0	1159.6	1377.2	1320.6	623.0	253.4
82.5°	71.5	77.5	140.1	193.8	229.5	161.0	324.9	405.4	423.3	277.2	122.2
85°	26.8	32.8	86.5	137.1	119.2	74.5	95.4	116.3	152.0	152.0	56.6
87.5°	0.0	3.0	35.8	59.6	29.8	20.9	26.8	32.8	41.7	71.5	20.9
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°	2367.0	2367.0	2367.0	2367.0	2367.0	2367.0	2367.0	2367.0	2367.0	2367.0	2367.0
2.5°	2393.8	2372.9	2381.9	2396.8	2364.0	2381.9	2346.1	2372.9	2381.9	2346.1	2364.0
5°	2423.6	2444.5	2432.5	2408.7	2387.8	2393.8	2384.8	2364.0	2381.9	2387.8	2375.9
7.5°	2510.0	2486.2	2492.2	2465.3	2423.6	2420.6	2364.0	2349.1	2355.0	2361.0	2340.1
10°	2590.5	2605.4	2575.6	2554.8	2486.2	2441.5	2364.0	2280.5	2271.6	2235.8	2265.6
12.5°	2733.6	2697.8	2685.9	2617.4	2548.8	2399.7	2232.8	2104.6	1997.3	1958.5	1919.8
15°	2852.9	2846.9	2826.0	2721.7	2563.7	2292.4	1976.4	1678.3	1472.6	1344.5	1326.6
17.5°	3016.8	2990.0	2951.2	2787.3	2453.4	2012.2	1472.6	1097.0	891.3	810.8	781.0
20°	3142.0	3121.2	3067.5	2772.4	2253.7	1499.5	912.2	697.6	646.9	632.0	635.0
22.5°	3323.9	3258.3	3156.9	2697.8	1890.0	998.7	655.8	623.0	614.1	602.2	605.2
25°	3481.9	3422.2	3210.6	2569.7	1347.4	661.8	608.1	590.2	575.3	560.4	557.5
27.5°	3622.0	3547.4	3267.2	2307.3	843.6	569.4	563.4	542.6	512.7	488.9	479.9
30°	3759.1	3672.7	3282.1	1815.5	569.4	515.7	500.8	468.0	429.3	396.5	390.5
32.5°	3988.6	3884.3	3261.3	1296.8	491.9	459.1	426.3	387.5	330.9	304.1	298.1
35°	4346.4	4188.4	3234.4	763.1	441.2	405.4	354.7	304.1	262.3	235.5	229.5
37.5°	4757.8	4483.5	3156.9	509.8	405.4	357.7	292.1	241.5	205.7	184.8	178.9
40°	5368.9	4915.7	2858.8	417.3	360.7	304.1	235.5	190.8	164.0	149.1	143.1
42.5°	6042.6	5410.6	2399.7	375.6	319.0	259.4	187.8	155.0	134.1	119.2	119.2
45°	6850.4	5926.3	1851.2	342.8	283.2	214.6	155.0	125.2	107.3	95.4	89.4
47.5°	7750.7	6394.3	1249.1	310.0	238.5	175.9	128.2	95.4	77.5	68.6	68.6
50°	8555.6	6808.7	795.9	271.3	208.7	146.1	104.3	77.5	62.6	50.7	47.7
52.5°	9286.0	7124.7	548.5	238.5	178.9	119.2	86.5	62.6	47.7	38.8	38.8
55°	10034.2	7285.7	405.4	205.7	155.0	101.4	71.5	56.6	41.7	32.8	29.8
57.5°	10648.3	7354.2	310.0	178.9	131.2	80.5	62.6	47.7	35.8	26.8	23.8
60°	11173.0	7321.5	241.5	149.1	104.3	68.6	53.7	38.8	29.8	20.9	17.9
62.5°	11480.0	7124.7	190.8	128.2	83.5	59.6	44.7	32.8	20.9	14.9	11.9
65°	11486.0	6707.4	149.1	95.4	62.6	50.7	38.8	26.8	14.9	6.0	3.0
67.5°	10663.2	5804.1	119.2	74.5	50.7	38.8	29.8	20.9	6.0	0.0	0.0
70°	8341.0	4391.1	98.4	59.6	41.7	32.8	20.9	11.9	3.0	0.0	0.0
72.5°	5315.2	2629.3	80.5	47.7	35.8	23.8	14.9	8.9	0.0	0.0	0.0
75°	2223.9	810.8	62.6	41.7	26.8	17.9	11.9	3.0	0.0	0.0	0.0
77.5°	572.4	256.4	50.7	35.8	26.8	14.9	8.9	3.0	0.0	0.0	0.0
80°	169.9	95.4	41.7	29.8	20.9	11.9	6.0	3.0	0.0	0.0	0.0
82.5°	77.5	56.6	35.8	26.8	17.9	11.9	6.0	0.0	0.0	0.0	0.0
85°	29.8	17.9	17.9	14.9	14.9	8.9	3.0	0.0	0.0	0.0	0.0
87.5°	11.9	6.0	6.0	6.0	3.0	3.0	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)