

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: P482429

Luminaire Tested: **IFLD-M-SA4C-735-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482429
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-735-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

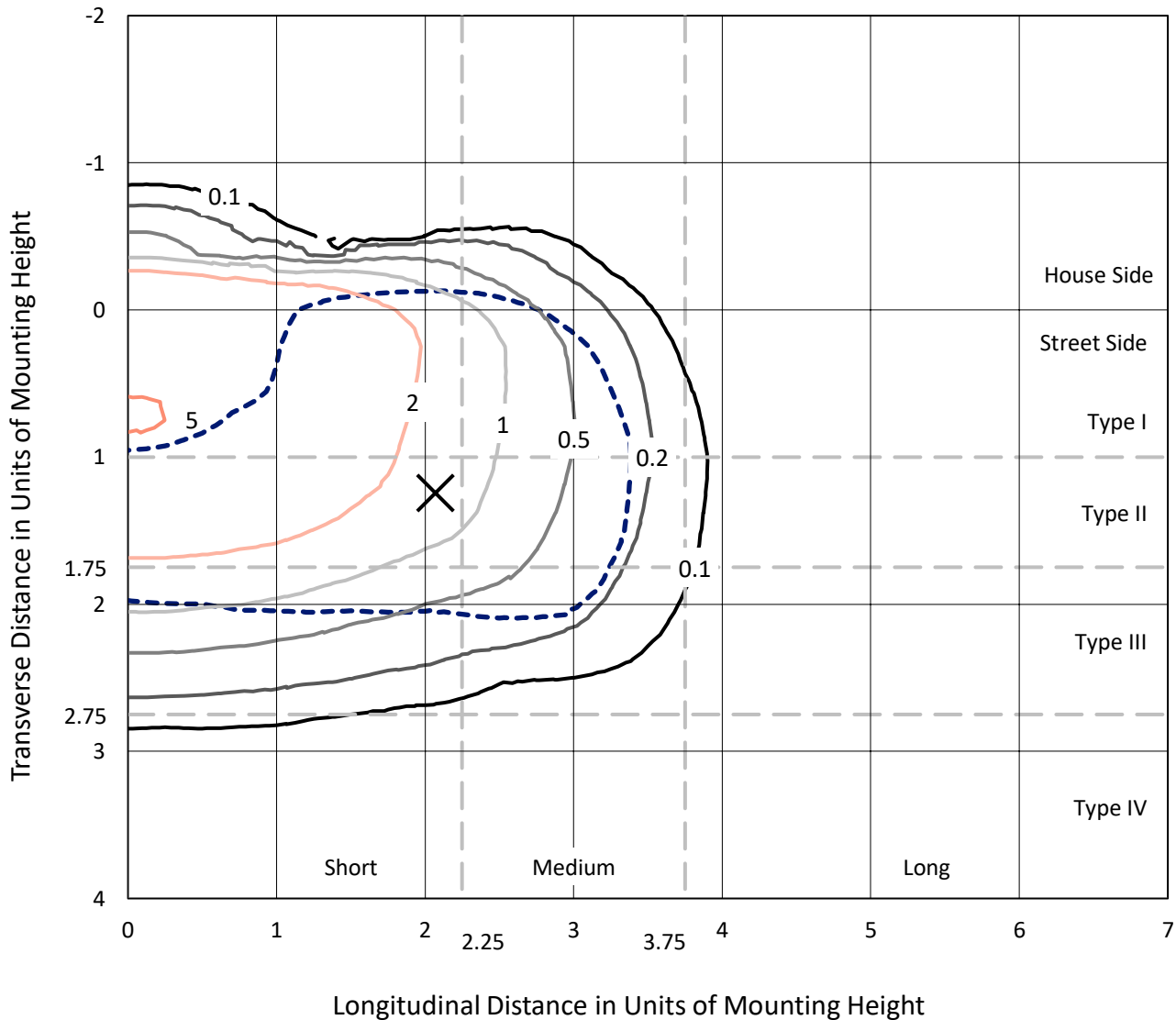
Lumens per Lamp: N/A
Luminaire Lumens: 20808 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (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

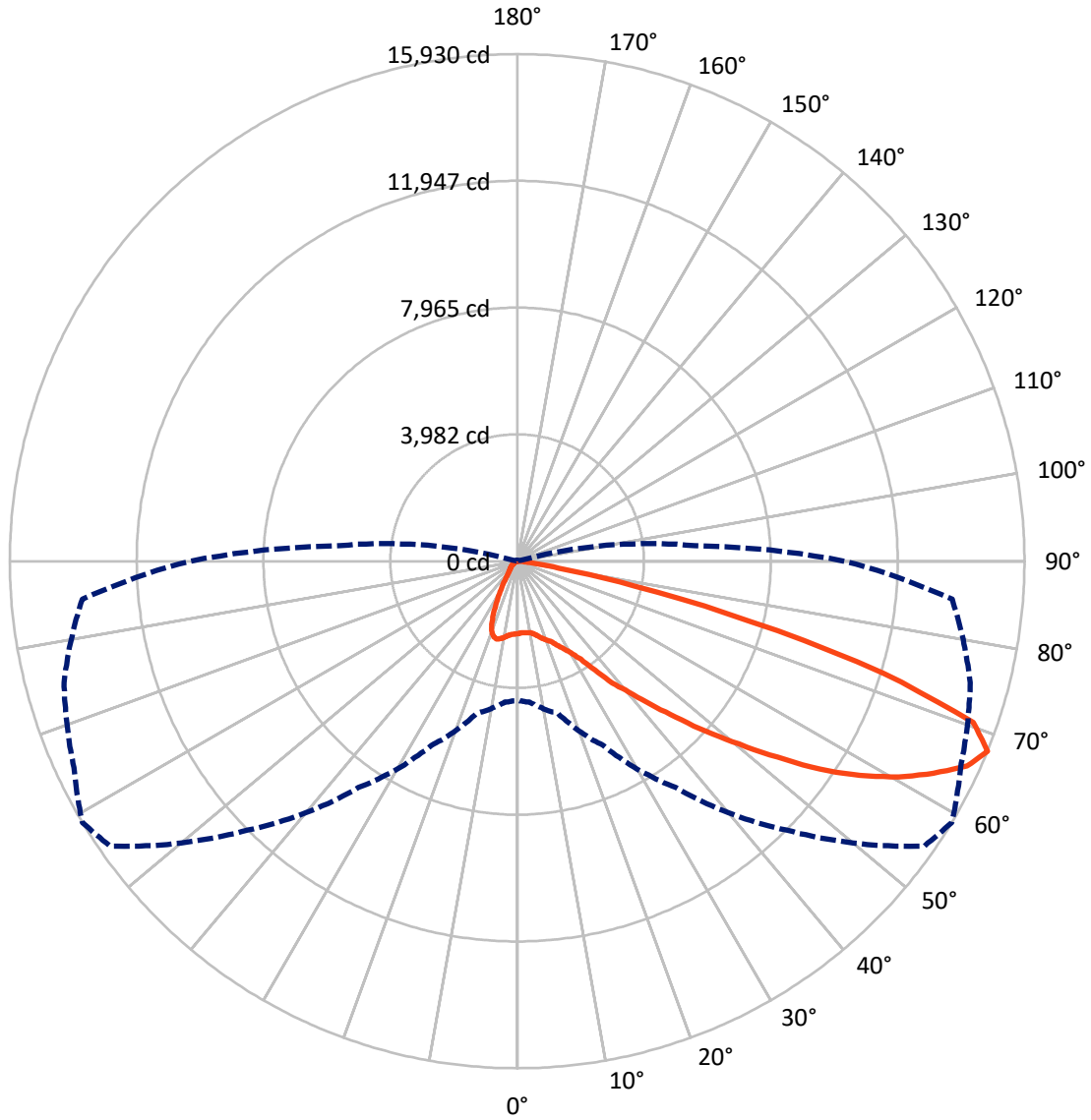
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	2444.3	0.0	2444.3
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	18363.7	0.0	18363.7
	% Fixture	88.3	0.0	88.3
Total	Lumens	20808.0	0.0	20808.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.8	1.0
10°-20°	626.2	3.0
20°-30°	1094.5	5.3
30°-40°	1927.0	9.3
40°-50°	3406.3	16.4
50°-60°	5393.3	25.9
60°-70°	5982.7	28.8
70°-80°	2075.8	10.0
80°-90°	85.5	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°	20808.0	100.0
0°-180°	20808.0	100.0

Coefficient of Utilization

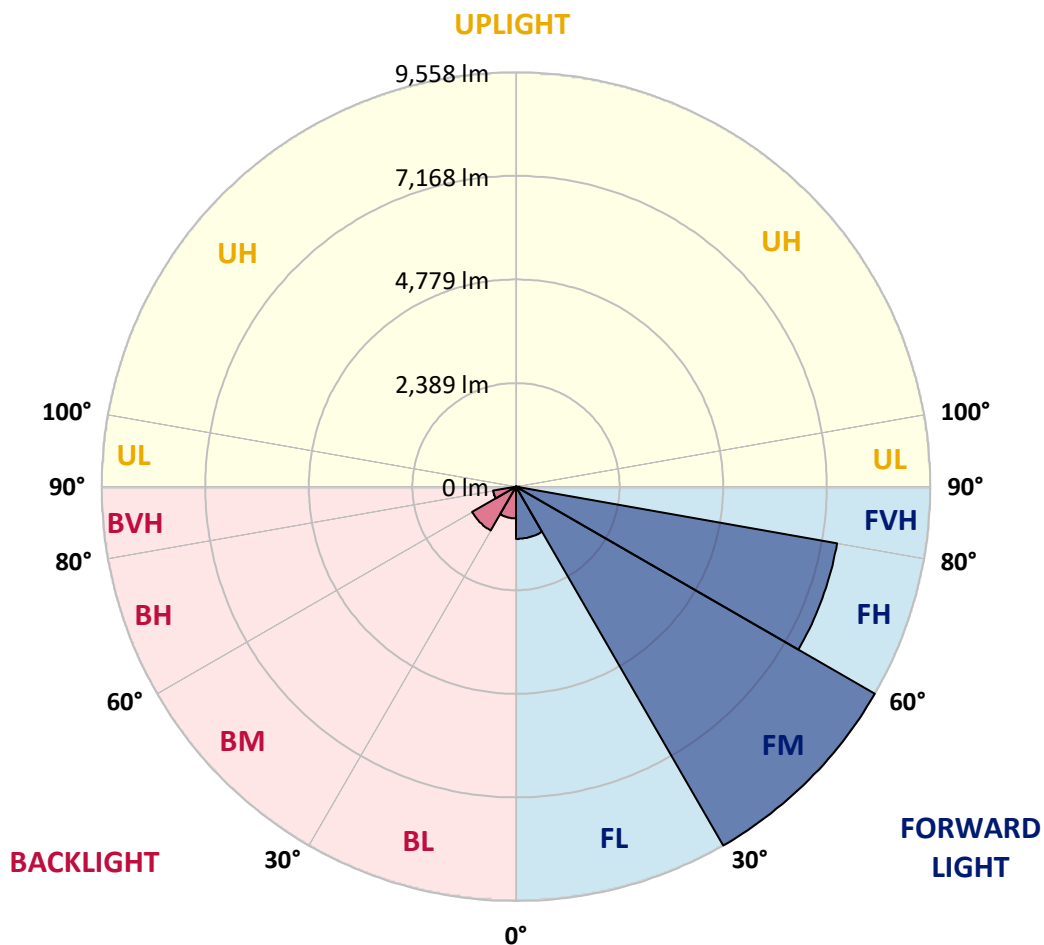


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1204.9	5.8			
FM (30°-60°)	9557.9	45.9			
FH (60°-80°)	7521.0	36.1			G4/12000
FVH (80°-90°)	79.9	0.4			G1/100
BL (0°-30°)	732.6	3.5	B2/1000		
BM (30°-60°)	1168.6	5.6	B2/2500		
BH (60°-80°)	537.5	2.6	B2/1000		G2/1000
BVH (80°-90°)	5.5	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°	2282.3	2282.3	2282.3	2282.3	2282.3	2282.3	2282.3	2282.3	2282.3	2282.3	2282.3
2.5°	2216.1	2184.5	2213.3	2216.1	2219.0	2244.9	2273.6	2253.5	2250.6	2273.6	2293.8
5°	2127.0	2112.7	2147.2	2164.4	2193.2	2216.1	2262.1	2265.0	2267.9	2293.8	2328.3
7.5°	2089.7	2055.2	2095.4	2115.5	2135.7	2190.3	2244.9	2273.6	2313.9	2345.5	2380.0
10°	2014.9	2040.8	2052.3	2086.8	2144.3	2207.5	2273.6	2288.0	2377.1	2403.0	2486.3
12.5°	2040.8	2058.1	2081.1	2089.7	2152.9	2247.8	2336.9	2342.6	2434.6	2546.7	2589.8
15°	2106.9	2095.4	2104.0	2115.5	2190.3	2267.9	2411.6	2437.5	2523.7	2650.2	2756.5
17.5°	2247.8	2227.6	2213.3	2210.4	2227.6	2299.5	2469.1	2546.7	2627.2	2799.6	2854.3
20°	2601.3	2584.1	2526.6	2377.1	2325.4	2354.1	2538.1	2647.3	2759.4	2952.0	3041.1
22.5°	3138.8	3156.1	3021.0	2811.1	2595.6	2483.5	2647.3	2742.2	2920.4	3164.7	3245.2
25°	3774.1	3739.6	3575.7	3331.4	2992.2	2727.8	2822.6	2929.0	3147.4	3348.7	3380.3
27.5°	4271.3	4231.1	4104.6	3808.6	3515.4	3087.1	3052.6	3118.7	3377.4	3558.5	3524.0
30°	4762.9	4777.2	4691.0	4340.3	3978.1	3526.9	3308.4	3337.2	3535.5	3768.3	3690.7
32.5°	5389.5	5355.0	5306.1	4998.6	4570.3	4087.4	3713.7	3667.7	3753.9	4061.5	3969.5
35°	5973.0	5952.8	5886.7	5576.3	5202.6	4676.6	4311.6	4208.1	4188.0	4530.0	4369.1
37.5°	6481.7	6447.2	6346.6	6148.3	5786.1	5343.5	4943.9	4852.0	4849.1	5084.8	4774.4
40°	6910.0	6935.9	6924.4	6705.9	6507.6	6154.1	5541.8	5395.2	5383.7	5510.2	5329.1
42.5°	7464.8	7525.1	7493.5	7450.4	7211.8	7073.9	6381.1	6156.9	6056.3	6315.0	6151.2
45°	8304.1	8327.1	8347.2	8240.9	8002.3	8031.0	7249.2	6981.9	6956.0	7341.2	6973.3
47.5°	9088.8	9028.4	9169.3	9175.0	9163.5	9031.3	8186.2	7987.9	8022.4	8315.6	7936.2
50°	9284.3	9439.5	9827.5	9899.4	10086.2	10206.9	9226.8	9028.4	9085.9	9419.4	8985.3
52.5°	9436.6	9672.3	10060.3	10586.4	11089.4	11376.8	10390.9	10229.9	10227.1	10431.1	9833.3
55°	9703.9	9847.6	10183.9	10908.3	11865.5	12336.9	11793.6	11534.9	11302.1	11445.8	10712.8
57.5°	9678.0	9732.7	10255.8	11149.7	12480.6	13337.1	12946.2	12699.0	12400.1	12316.7	11724.6
60°	9223.9	9353.2	9939.6	10985.9	12860.0	14116.1	14021.2	13768.3	13253.8	13058.3	12500.7
62.5°	8324.2	8496.7	8956.6	10411.0	12308.1	14156.3	14762.8	14668.0	14093.1	13742.4	13512.5
65°	6746.2	6826.7	7355.5	8950.8	11060.6	13538.3	15639.5	15521.7	14992.8	14469.6	14032.7
67.5°	4369.1	4446.7	4955.4	6389.8	8686.4	11943.1	15605.0	15929.8	15357.8	14728.3	13707.9
70°	2063.8	2043.7	2518.0	3549.9	5564.8	9120.4	14550.1	15191.1	14705.3	13351.5	11385.4
72.5°	629.5	684.1	1046.3	1572.3	2857.1	5688.4	11405.6	12006.3	11854.0	10666.8	7599.9
75°	278.8	301.8	411.0	643.9	1158.4	2334.0	7045.1	7579.7	7513.6	6292.0	3469.4
77.5°	178.2	195.5	258.7	367.9	526.0	741.6	3245.2	3765.4	3650.5	2210.4	908.3
80°	126.5	135.1	184.0	252.9	330.6	304.7	1118.1	1328.0	1273.4	600.7	244.3
82.5°	69.0	74.7	135.1	186.8	221.3	155.2	313.3	390.9	408.2	267.3	117.8
85°	25.9	31.6	83.4	132.2	115.0	71.9	92.0	112.1	146.6	146.6	54.6
87.5°	0.0	2.9	34.5	57.5	28.7	20.1	25.9	31.6	40.2	69.0	20.1
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°	2282.3	2282.3	2282.3	2282.3	2282.3	2282.3	2282.3	2282.3	2282.3	2282.3	2282.3
2.5°	2308.1	2288.0	2296.6	2311.0	2279.4	2296.6	2262.1	2288.0	2296.6	2262.1	2279.4
5°	2336.9	2357.0	2345.5	2322.5	2302.4	2308.1	2299.5	2279.4	2296.6	2302.4	2290.9
7.5°	2420.2	2397.2	2403.0	2377.1	2336.9	2334.0	2279.4	2265.0	2270.8	2276.5	2256.4
10°	2497.8	2512.2	2483.5	2463.3	2397.2	2354.1	2279.4	2198.9	2190.3	2155.8	2184.5
12.5°	2635.8	2601.3	2589.8	2523.7	2457.6	2313.9	2152.9	2029.3	1925.8	1888.5	1851.1
15°	2750.8	2745.0	2724.9	2624.3	2472.0	2210.4	1905.7	1618.3	1419.9	1296.3	1279.1
17.5°	2908.9	2883.0	2845.6	2687.5	2365.6	1940.2	1419.9	1057.8	859.4	781.8	753.1
20°	3029.6	3009.5	2957.7	2673.2	2173.0	1445.8	879.6	672.6	623.7	609.4	612.2
22.5°	3204.9	3141.7	3044.0	2601.3	1822.4	962.9	632.4	600.7	592.1	580.6	583.5
25°	3357.3	3299.8	3095.7	2477.7	1299.2	638.1	586.4	569.1	554.8	540.4	537.5
27.5°	3492.4	3420.5	3150.3	2224.8	813.5	549.0	543.3	523.1	494.4	471.4	462.8
30°	3624.6	3541.2	3164.7	1750.5	549.0	497.3	482.9	451.3	413.9	382.3	376.5
32.5°	3845.9	3745.3	3144.6	1250.4	474.3	442.7	411.0	373.7	319.1	293.2	287.4
35°	4190.9	4038.5	3118.7	735.8	425.4	390.9	342.1	293.2	252.9	227.1	221.3
37.5°	4587.5	4323.1	3044.0	491.5	390.9	344.9	281.7	232.8	198.3	178.2	172.5
40°	5176.8	4739.9	2756.5	402.4	347.8	293.2	227.1	184.0	158.1	143.7	138.0
42.5°	5826.4	5217.0	2313.9	362.2	307.6	250.1	181.1	149.5	129.3	115.0	115.0
45°	6605.3	5714.3	1785.0	330.6	273.1	207.0	149.5	120.7	103.5	92.0	86.2
47.5°	7473.4	6165.6	1204.4	298.9	230.0	169.6	123.6	92.0	74.7	66.1	66.1
50°	8249.5	6565.1	767.5	261.6	201.2	140.8	100.6	74.7	60.4	48.9	46.0
52.5°	8953.7	6869.8	528.9	230.0	172.5	115.0	83.4	60.4	46.0	37.4	37.4
55°	9675.2	7025.0	390.9	198.3	149.5	97.7	69.0	54.6	40.2	31.6	28.7
57.5°	10267.3	7091.1	298.9	172.5	126.5	77.6	60.4	46.0	34.5	25.9	23.0
60°	10773.2	7059.5	232.8	143.7	100.6	66.1	51.7	37.4	28.7	20.1	17.2
62.5°	11069.3	6869.8	184.0	123.6	80.5	57.5	43.1	31.6	20.1	14.4	11.5
65°	11075.0	6467.4	143.7	92.0	60.4	48.9	37.4	25.9	14.4	5.7	2.9
67.5°	10281.7	5596.4	115.0	71.9	48.9	37.4	28.7	20.1	5.7	0.0	0.0
70°	8042.5	4234.0	94.9	57.5	40.2	31.6	20.1	11.5	2.9	0.0	0.0
72.5°	5125.0	2535.2	77.6	46.0	34.5	23.0	14.4	8.6	0.0	0.0	0.0
75°	2144.3	781.8	60.4	40.2	25.9	17.2	11.5	2.9	0.0	0.0	0.0
77.5°	551.9	247.2	48.9	34.5	25.9	14.4	8.6	2.9	0.0	0.0	0.0
80°	163.8	92.0	40.2	28.7	20.1	11.5	5.7	2.9	0.0	0.0	0.0
82.5°	74.7	54.6	34.5	25.9	17.2	11.5	5.7	0.0	0.0	0.0	0.0
85°	28.7	17.2	17.2	14.4	14.4	8.6	2.9	0.0	0.0	0.0	0.0
87.5°	11.5	5.7	5.7	5.7	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)