

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: P482471

Luminaire Tested: **IFLD-L-SA7A-740-U-T3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482471
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-740-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

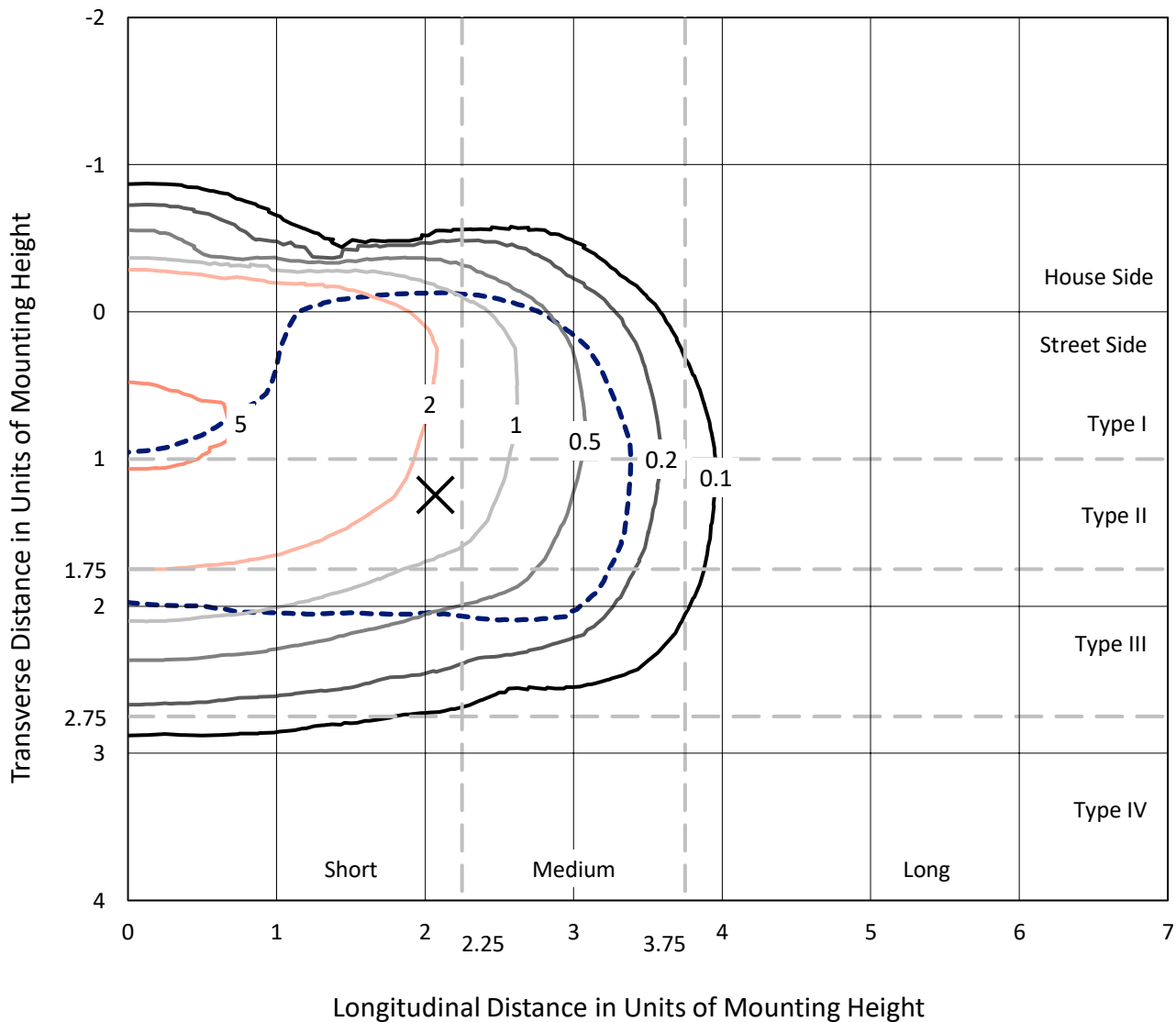
Lumens per Lamp: N/A
Luminaire Lumens: 23225.7 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 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

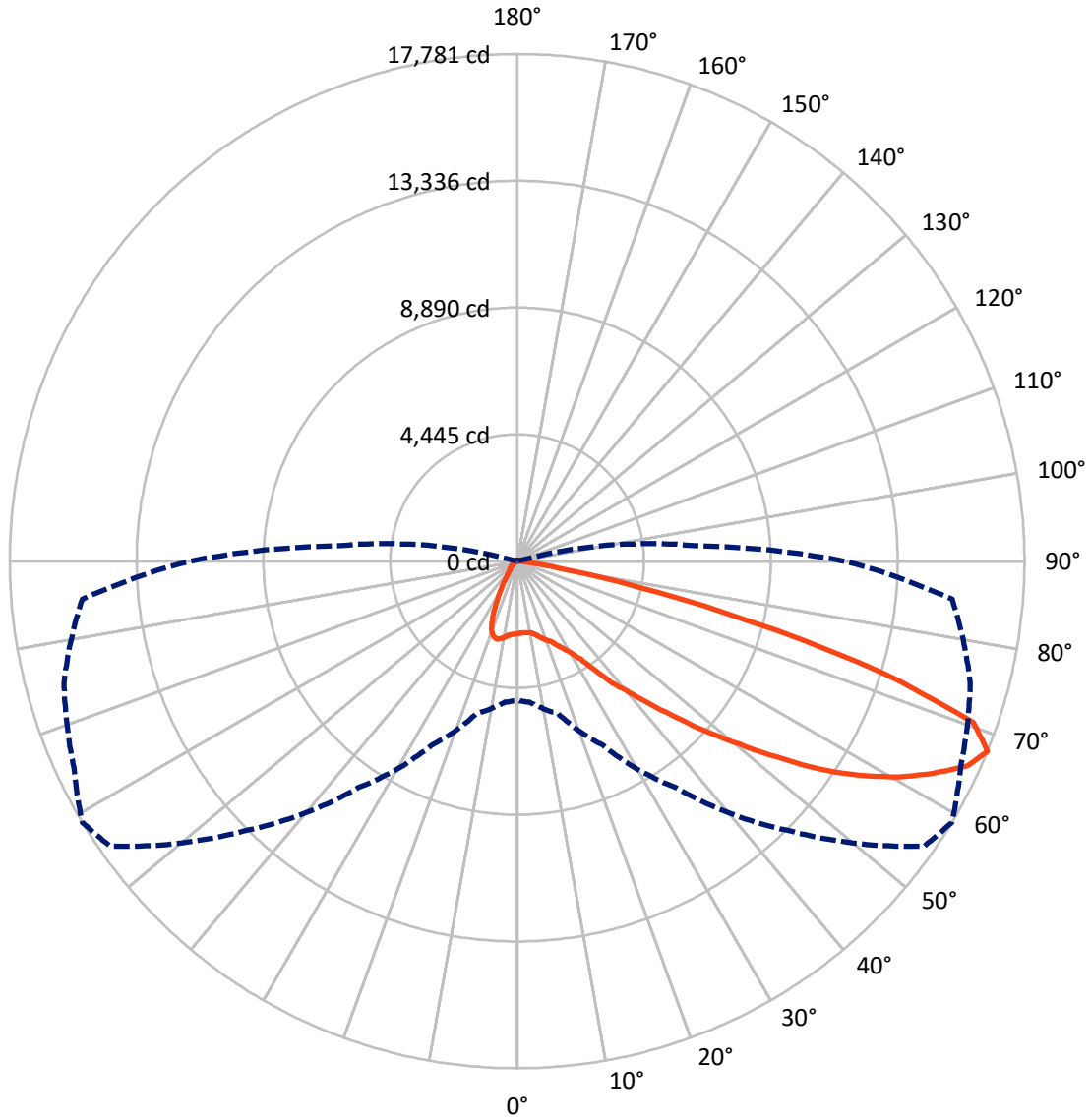
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	2728.3	0.0	2728.3
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	20497.5	0.0	20497.5
	% Fixture	88.3	0.0	88.3
Total	Lumens	23225.7	0.0	23225.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.0	1.0
10°-20°	699.0	3.0
20°-30°	1221.7	5.3
30°-40°	2150.9	9.3
40°-50°	3802.0	16.4
50°-60°	6020.0	25.9
60°-70°	6677.8	28.8
70°-80°	2317.0	10.0
80°-90°	95.4	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°	23225.7	100.0
0°-180°	23225.7	100.0

Coefficient of Utilization

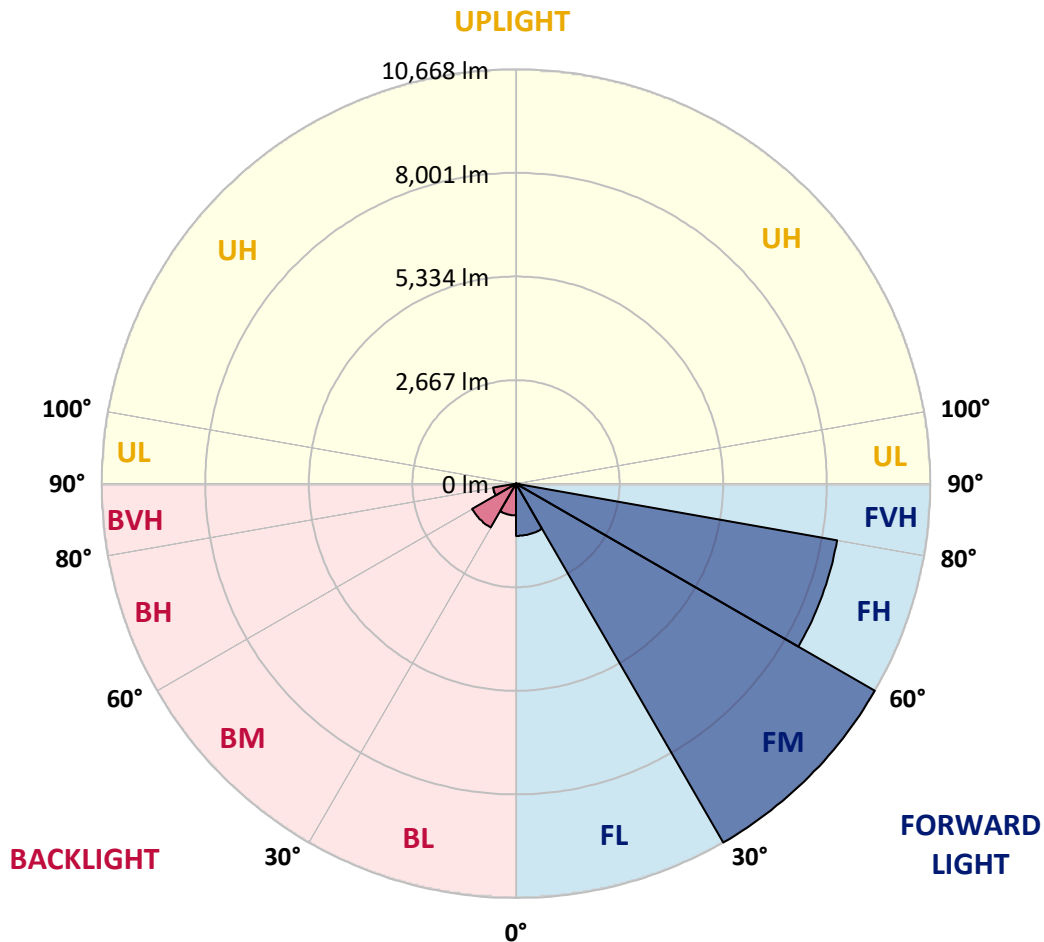


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1344.9	5.8			
FM (30°-60°)	10668.4	45.9			
FH (60°-80°)	8394.9	36.1			G4/12000
FVH (80°-90°)	89.2	0.4			G1/100
BL (0°-30°)	817.7	3.5	B2/1000		
BM (30°-60°)	1304.4	5.6	B2/2500		
BH (60°-80°)	600.0	2.6	B2/1000		G2/1000
BVH (80°-90°)	6.2	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°	2547.4	2547.4	2547.4	2547.4	2547.4	2547.4	2547.4	2547.4	2547.4	2547.4	2547.4
2.5°	2473.7	2438.4	2470.4	2473.7	2476.9	2505.7	2537.8	2515.4	2512.2	2537.8	2560.3
5°	2374.2	2358.2	2396.7	2415.9	2448.0	2473.7	2525.0	2528.2	2531.4	2560.3	2598.8
7.5°	2332.5	2294.0	2338.9	2361.4	2383.8	2444.8	2505.7	2537.8	2582.7	2618.0	2656.5
10°	2249.1	2277.9	2290.8	2329.3	2393.4	2464.0	2537.8	2553.9	2653.3	2682.2	2775.2
12.5°	2277.9	2297.2	2322.9	2332.5	2403.1	2508.9	2608.4	2614.8	2717.5	2842.6	2890.7
15°	2351.7	2338.9	2348.5	2361.4	2444.8	2531.4	2691.8	2720.7	2817.0	2958.1	3076.8
17.5°	2508.9	2486.5	2470.4	2467.2	2486.5	2566.7	2756.0	2842.6	2932.5	3125.0	3185.9
20°	2903.6	2884.3	2820.2	2653.3	2595.6	2627.7	2833.0	2954.9	3080.0	3295.0	3394.5
22.5°	3503.5	3522.8	3372.0	3137.8	2897.2	2772.0	2954.9	3060.8	3259.7	3532.4	3622.3
25°	4212.6	4174.1	3991.2	3718.5	3339.9	3044.7	3150.6	3269.3	3513.2	3737.8	3773.0
27.5°	4767.6	4722.7	4581.6	4251.1	3923.8	3445.8	3407.3	3481.1	3769.8	3972.0	3933.5
30°	5316.3	5332.3	5236.1	4844.6	4440.4	3936.7	3692.8	3724.9	3946.3	4206.2	4119.5
32.5°	6015.7	5977.2	5922.7	5579.4	5101.3	4562.3	4145.2	4093.9	4190.1	4533.4	4430.8
35°	6667.0	6644.5	6570.7	6224.2	5807.2	5220.0	4812.6	4697.1	4674.6	5056.4	4876.7
37.5°	7234.9	7196.4	7084.1	6862.7	6458.5	5964.4	5518.4	5415.7	5412.5	5675.6	5329.1
40°	7712.9	7741.8	7729.0	7485.1	7263.8	6869.1	6185.7	6022.1	6009.3	6150.4	5948.3
42.5°	8332.1	8399.5	8364.2	8316.1	8049.8	7895.8	7122.6	6872.3	6760.0	7048.8	6865.9
45°	9269.0	9294.7	9317.1	9198.4	8932.1	8964.2	8091.5	7793.1	7764.3	8194.2	7783.5
47.5°	10144.9	10077.5	10234.7	10241.1	10228.3	10080.7	9137.4	8916.1	8954.6	9281.8	8858.3
50°	10363.0	10536.3	10969.4	11049.6	11258.2	11392.9	10298.9	10077.5	10141.7	10513.8	10029.4
52.5°	10533.1	10796.2	11229.3	11816.4	12377.9	12698.7	11598.3	11418.6	11415.4	11643.2	10975.8
55°	10831.5	10991.9	11367.3	12175.8	13244.2	13770.3	13163.9	12875.2	12615.3	12775.7	11957.6
57.5°	10802.6	10863.5	11447.5	12445.3	13930.8	14886.8	14450.5	14174.6	13840.9	13747.9	13086.9
60°	10295.7	10440.0	11094.5	12262.4	14354.3	15756.3	15650.4	15368.1	14793.8	14575.6	13953.2
62.5°	9291.4	9483.9	9997.3	11620.7	13738.2	15801.2	16478.2	16372.3	15730.6	15339.2	15082.6
65°	7530.0	7619.9	8210.2	9990.9	12345.8	15111.4	17456.8	17325.2	16734.9	16150.9	15663.3
67.5°	4876.7	4963.4	5531.2	7132.2	9695.7	13330.8	17418.3	17780.8	17142.3	16439.7	15300.7
70°	2303.6	2281.2	2810.5	3962.3	6211.4	10180.2	16240.8	16956.2	16414.0	14902.9	12708.4
72.5°	702.6	763.6	1167.8	1755.0	3189.1	6349.4	12730.8	13401.4	13231.3	11906.3	8482.9
75°	311.2	336.9	458.8	718.7	1293.0	2605.2	7863.7	8460.5	8386.7	7023.1	3872.5
77.5°	198.9	218.2	288.8	410.7	587.1	827.8	3622.3	4203.0	4074.6	2467.2	1013.8
80°	141.2	150.8	205.3	282.3	369.0	340.1	1248.1	1482.3	1421.3	670.5	272.7
82.5°	77.0	83.4	150.8	208.5	247.0	173.3	349.7	436.3	455.6	298.4	131.5
85°	28.9	35.3	93.0	147.6	128.3	80.2	102.7	125.1	163.6	163.6	61.0
87.5°	0.0	3.2	38.5	64.2	32.1	22.5	28.9	35.3	44.9	77.0	22.5
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°	2547.4	2547.4	2547.4	2547.4	2547.4	2547.4	2547.4	2547.4	2547.4	2547.4	2547.4
2.5°	2576.3	2553.9	2563.5	2579.5	2544.2	2563.5	2525.0	2553.9	2563.5	2525.0	2544.2
5°	2608.4	2630.9	2618.0	2592.4	2569.9	2576.3	2566.7	2544.2	2563.5	2569.9	2557.1
7.5°	2701.4	2675.8	2682.2	2653.3	2608.4	2605.2	2544.2	2528.2	2534.6	2541.0	2518.6
10°	2788.1	2804.1	2772.0	2749.6	2675.8	2627.7	2544.2	2454.4	2444.8	2406.3	2438.4
12.5°	2942.1	2903.6	2890.7	2817.0	2743.2	2582.7	2403.1	2265.1	2149.6	2107.9	2066.2
15°	3070.4	3064.0	3041.5	2929.2	2759.2	2467.2	2127.2	1806.3	1584.9	1447.0	1427.7
17.5°	3246.9	3218.0	3176.3	2999.8	2640.5	2165.7	1584.9	1180.7	959.3	872.7	840.6
20°	3381.6	3359.2	3301.4	2983.8	2425.5	1613.8	981.8	750.8	696.2	680.2	683.4
22.5°	3577.3	3506.8	3397.7	2903.6	2034.1	1074.8	705.8	670.5	660.9	648.1	651.3
25°	3747.4	3683.2	3455.4	2765.6	1450.2	712.3	654.5	635.3	619.2	603.2	600.0
27.5°	3898.2	3818.0	3516.4	2483.3	908.0	612.8	606.4	583.9	551.8	526.2	516.5
30°	4045.8	3952.7	3532.4	1953.9	612.8	555.0	539.0	503.7	462.0	426.7	420.3
32.5°	4292.8	4180.5	3510.0	1395.6	529.4	494.1	458.8	417.1	356.1	327.3	320.8
35°	4677.8	4507.8	3481.1	821.3	474.8	436.3	381.8	327.3	282.3	253.5	247.0
37.5°	5120.6	4825.4	3397.7	548.6	436.3	385.0	314.4	259.9	221.4	198.9	192.5
40°	5778.3	5290.6	3076.8	449.2	388.2	327.3	253.5	205.3	176.5	160.4	154.0
42.5°	6503.4	5823.2	2582.7	404.3	343.3	279.1	202.1	166.8	144.4	128.3	128.3
45°	7372.8	6378.2	1992.4	369.0	304.8	231.0	166.8	134.8	115.5	102.7	96.3
47.5°	8341.8	6882.0	1344.3	333.7	256.7	189.3	138.0	102.7	83.4	73.8	73.8
50°	9208.0	7327.9	856.6	292.0	224.6	157.2	112.3	83.4	67.4	54.5	51.3
52.5°	9994.1	7668.0	590.3	256.7	192.5	128.3	93.0	67.4	51.3	41.7	41.7
55°	10799.4	7841.3	436.3	221.4	166.8	109.1	77.0	61.0	44.9	35.3	32.1
57.5°	11460.3	7915.1	333.7	192.5	141.2	86.6	67.4	51.3	38.5	28.9	25.7
60°	12025.0	7879.8	259.9	160.4	112.3	73.8	57.8	41.7	32.1	22.5	19.3
62.5°	12355.4	7668.0	205.3	138.0	89.8	64.2	48.1	35.3	22.5	16.0	12.8
65°	12361.9	7218.8	160.4	102.7	67.4	54.5	41.7	28.9	16.0	6.4	3.2
67.5°	11476.3	6246.7	128.3	80.2	54.5	41.7	32.1	22.5	6.4	0.0	0.0
70°	8977.0	4725.9	105.9	64.2	44.9	35.3	22.5	12.8	3.2	0.0	0.0
72.5°	5720.5	2829.8	86.6	51.3	38.5	25.7	16.0	9.6	0.0	0.0	0.0
75°	2393.4	872.7	67.4	44.9	28.9	19.3	12.8	3.2	0.0	0.0	0.0
77.5°	616.0	275.9	54.5	38.5	28.9	16.0	9.6	3.2	0.0	0.0	0.0
80°	182.9	102.7	44.9	32.1	22.5	12.8	6.4	3.2	0.0	0.0	0.0
82.5°	83.4	61.0	38.5	28.9	19.3	12.8	6.4	0.0	0.0	0.0	0.0
85°	32.1	19.3	19.3	16.0	16.0	9.6	3.2	0.0	0.0	0.0	0.0
87.5°	12.8	6.4	6.4	6.4	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)