

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: P482322

Luminaire Tested: **IFLD-L-SA8C-722-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482322
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-722-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (128) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

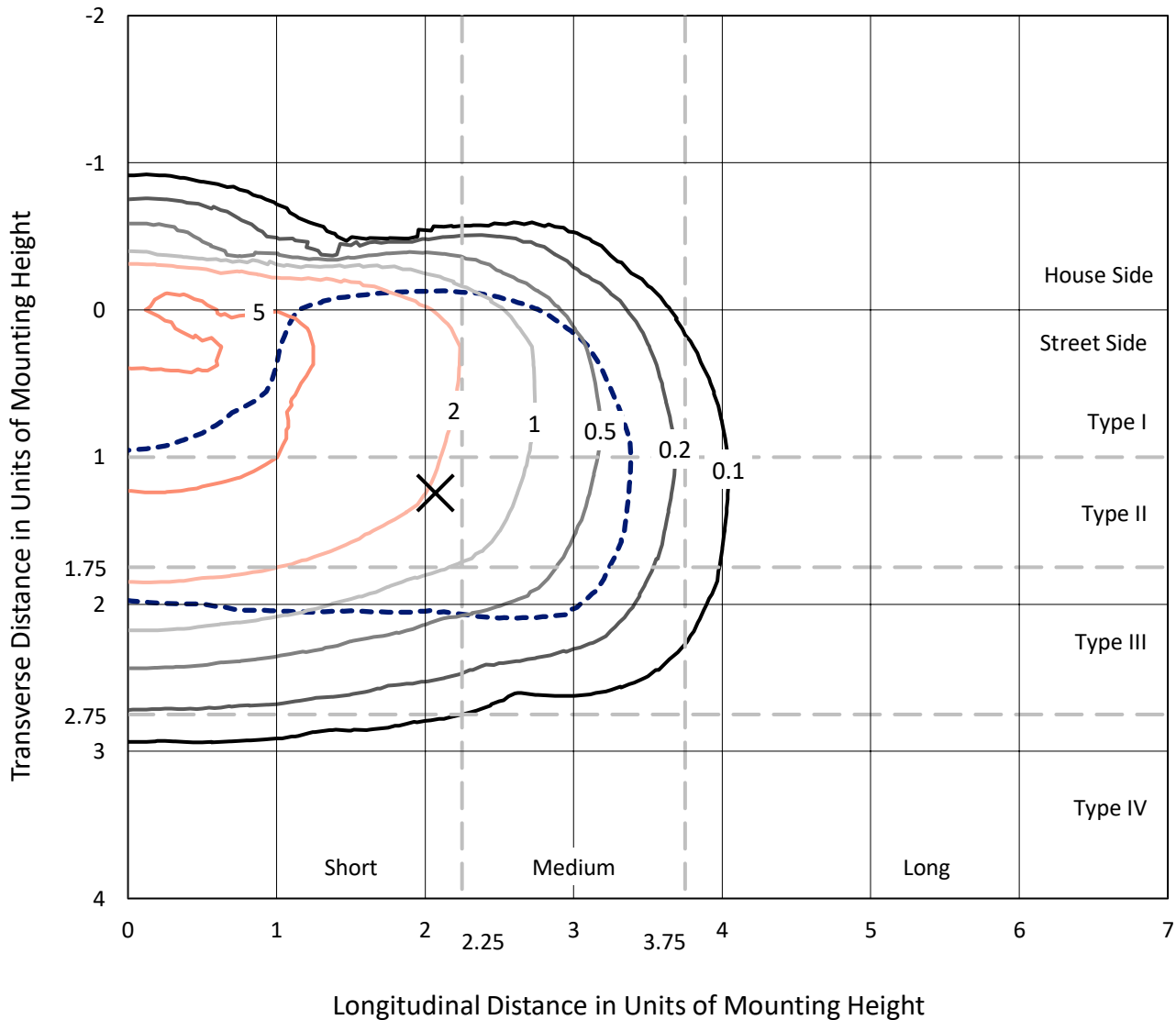
Lumens per Lamp: N/A
Luminaire Lumens: 27691.7 lumens
Efficiency: N/A
Efficacy: 65.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 420.3
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

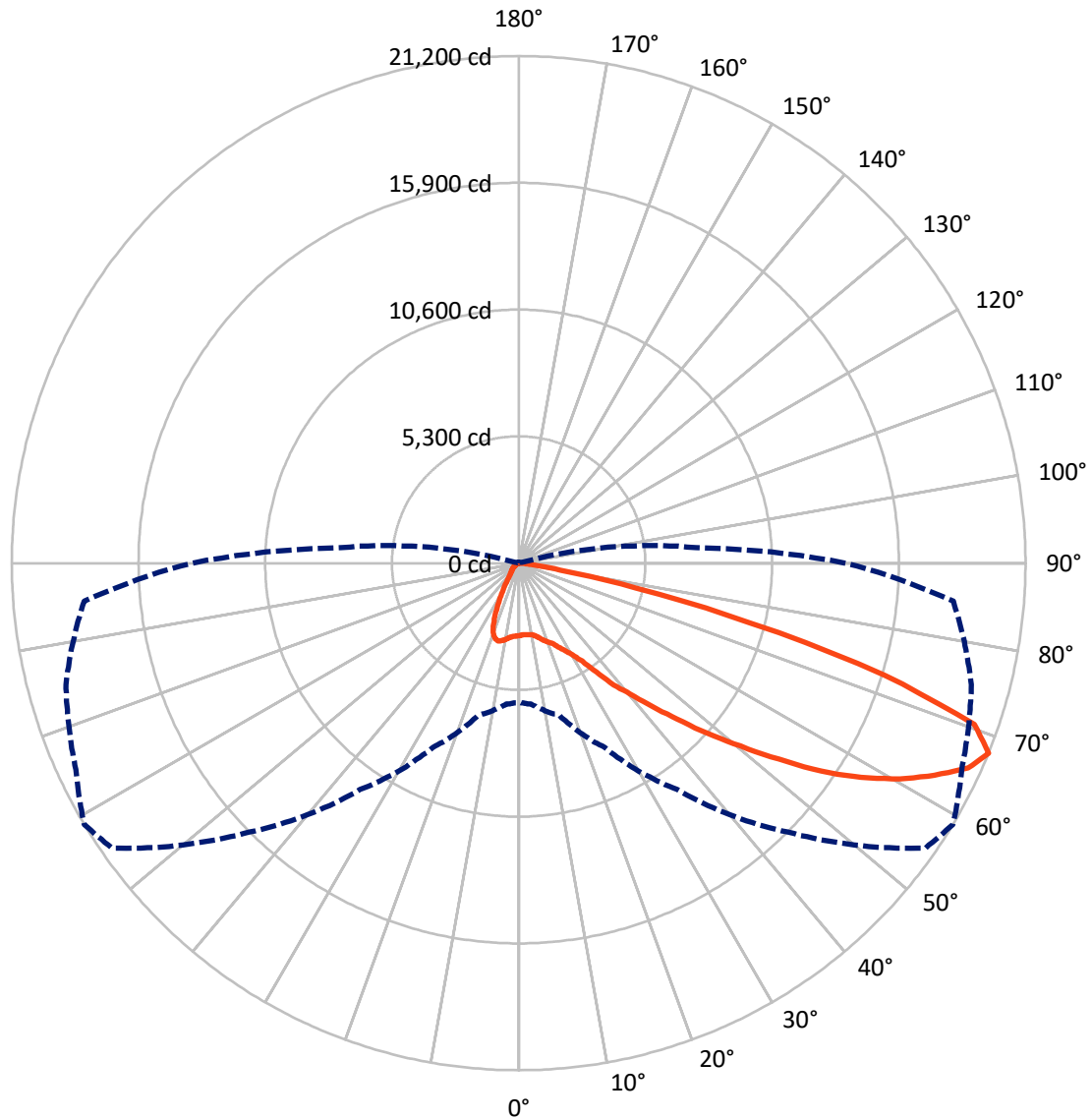
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	3252.9	0.0	3252.9
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	24438.8	0.0	24438.8
	% Fixture	88.3	0.0	88.3
Total	Lumens	27691.7	0.0	27691.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.5	1.0
10°-20°	833.4	3.0
20°-30°	1456.6	5.3
30°-40°	2564.4	9.3
40°-50°	4533.1	16.4
50°-60°	7177.5	25.9
60°-70°	7961.8	28.8
70°-80°	2762.6	10.0
80°-90°	113.8	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°	27691.7	100.0
0°-180°	27691.7	100.0

Coefficient of Utilization

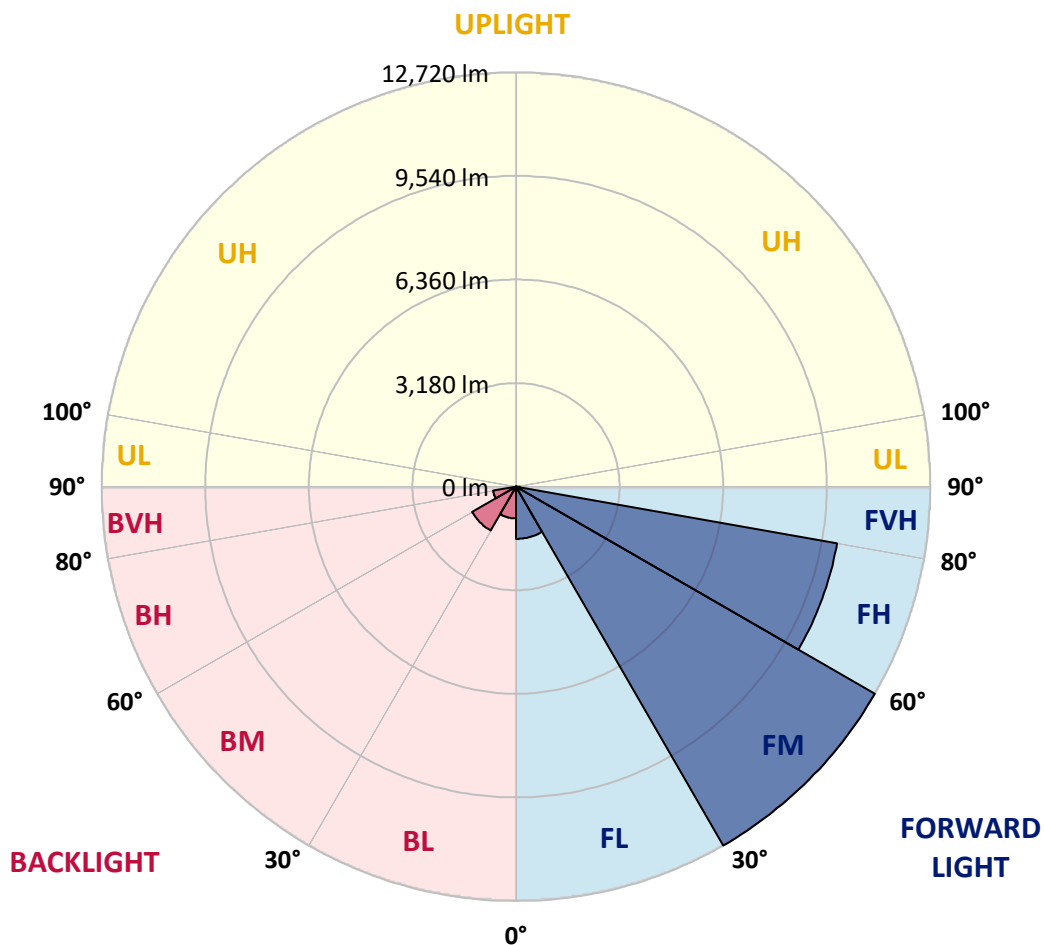


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1603.6	5.8			
FM (30°-60°)	12719.8	45.9			
FH (60°-80°)	10009.0	36.1			G4/12000
FVH (80°-90°)	106.4	0.4			G2/225
BL (0°-30°)	974.9	3.5	B2/1000		
BM (30°-60°)	1555.2	5.6	B2/2500		
BH (60°-80°)	715.4	2.6	B2/1000		G2/1000
BVH (80°-90°)	7.4	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°	3037.3	3037.3	3037.3	3037.3	3037.3	3037.3	3037.3	3037.3	3037.3	3037.3	3037.3
2.5°	2949.3	2907.2	2945.5	2949.3	2953.1	2987.5	3025.8	2999.0	2995.2	3025.8	3052.6
5°	2830.7	2811.6	2857.5	2880.4	2918.7	2949.3	3010.5	3014.3	3018.2	3052.6	3098.5
7.5°	2781.0	2735.1	2788.6	2815.4	2842.2	2914.9	2987.5	3025.8	3079.4	3121.4	3167.3
10°	2681.5	2716.0	2731.3	2777.2	2853.7	2937.8	3025.8	3044.9	3163.5	3197.9	3308.9
12.5°	2716.0	2738.9	2769.5	2781.0	2865.1	2991.4	3110.0	3117.6	3240.0	3389.2	3446.6
15°	2803.9	2788.6	2800.1	2815.4	2914.9	3018.2	3209.4	3243.8	3358.6	3526.9	3668.5
17.5°	2991.4	2964.6	2945.5	2941.6	2964.6	3060.2	3285.9	3389.2	3496.3	3725.8	3798.5
20°	3461.9	3438.9	3362.4	3163.5	3094.7	3132.9	3377.7	3523.1	3672.3	3928.6	4047.2
22.5°	4177.2	4200.2	4020.4	3741.1	3454.2	3305.0	3523.1	3649.3	3886.5	4211.6	4318.7
25°	5022.6	4976.7	4758.7	4433.5	3982.1	3630.2	3756.4	3898.0	4188.7	4456.5	4498.5
27.5°	5684.4	5630.8	5462.5	5068.5	4678.3	4108.4	4062.5	4150.4	4494.7	4735.7	4689.8
30°	6338.5	6357.6	6242.9	5776.2	5294.2	4693.6	4402.9	4441.2	4705.1	5015.0	4911.7
32.5°	7172.4	7126.5	7061.5	6652.2	6082.2	5439.6	4942.3	4881.1	4995.8	5405.1	5282.7
35°	7948.9	7922.2	7834.2	7421.1	6923.8	6223.7	5737.9	5600.2	5573.4	6028.7	5814.4
37.5°	8626.0	8580.1	8446.2	8182.3	7700.3	7111.2	6579.5	6457.1	6453.3	6766.9	6353.8
40°	9196.0	9230.4	9215.1	8924.4	8660.5	8189.9	7375.2	7180.1	7164.8	7333.1	7092.1
42.5°	9934.3	10014.6	9972.5	9915.1	9597.6	9414.0	8492.1	8193.8	8059.9	8404.2	8186.1
45°	11051.3	11081.9	11108.6	10967.1	10649.6	10687.9	9647.4	9291.6	9257.2	9769.8	9280.1
47.5°	12095.6	12015.2	12202.7	12210.3	12195.0	12019.1	10894.4	10630.5	10676.4	11066.6	10561.6
50°	12355.7	12562.2	13078.7	13174.3	13422.9	13583.6	12279.2	12015.2	12091.7	12535.5	11957.8
52.5°	12558.4	12872.1	13388.5	14088.5	14758.0	15140.5	13828.4	13614.2	13610.4	13882.0	13086.3
55°	12914.2	13105.4	13553.0	14517.0	15790.8	16418.1	15695.2	15350.9	15041.0	15232.3	14256.8
57.5°	12879.7	12952.4	13648.6	14838.3	16609.4	17749.3	17229.1	16900.1	16502.3	16391.4	15603.3
60°	12275.3	12447.5	13227.8	14620.2	17114.3	18786.0	18659.8	18323.1	17638.4	17378.3	16636.2
62.5°	11078.0	11307.5	11919.6	13855.2	16379.9	18839.5	19646.7	19520.4	18755.4	18288.7	17982.7
65°	8977.9	9085.1	9788.9	11911.9	14719.7	18017.1	20813.4	20656.6	19952.7	19256.5	18675.1
67.5°	5814.4	5917.7	6594.8	8503.6	11560.0	15894.1	20767.5	21199.7	20438.5	19600.8	18242.8
70°	2746.6	2719.8	3351.0	4724.2	7405.8	12137.6	19363.6	20216.6	19570.2	17768.5	15152.0
72.5°	837.7	910.4	1392.4	2092.4	3802.3	7570.2	15178.7	15978.2	15775.5	14195.6	10114.1
75°	371.1	401.7	547.0	856.9	1541.6	3106.1	9375.8	10087.3	9999.3	8373.6	4617.1
77.5°	237.2	260.1	344.3	489.6	700.0	986.9	4318.7	5011.1	4858.1	2941.6	1208.8
80°	168.3	179.8	244.8	336.6	439.9	405.5	1488.0	1767.3	1694.6	799.5	325.1
82.5°	91.8	99.5	179.8	248.6	294.5	206.6	417.0	520.2	543.2	355.8	156.8
85°	34.4	42.1	110.9	176.0	153.0	95.6	122.4	149.2	195.1	195.1	72.7
87.5°	0.0	3.8	45.9	76.5	38.3	26.8	34.4	42.1	53.6	91.8	26.8
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°	3037.3	3037.3	3037.3	3037.3	3037.3	3037.3	3037.3	3037.3	3037.3	3037.3	3037.3
2.5°	3071.7	3044.9	3056.4	3075.5	3033.5	3056.4	3010.5	3044.9	3056.4	3010.5	3033.5
5°	3110.0	3136.7	3121.4	3090.8	3064.1	3071.7	3060.2	3033.5	3056.4	3064.1	3048.8
7.5°	3220.9	3190.3	3197.9	3163.5	3110.0	3106.1	3033.5	3014.3	3022.0	3029.6	3002.9
10°	3324.2	3343.3	3305.0	3278.3	3190.3	3132.9	3033.5	2926.3	2914.9	2869.0	2907.2
12.5°	3507.8	3461.9	3446.6	3358.6	3270.6	3079.4	2865.1	2700.7	2562.9	2513.2	2463.5
15°	3660.8	3653.1	3626.4	3492.5	3289.7	2941.6	2536.2	2153.6	1889.7	1725.2	1702.3
17.5°	3871.2	3836.8	3787.0	3576.6	3148.2	2582.1	1889.7	1407.7	1143.8	1040.5	1002.2
20°	4031.9	4005.1	3936.2	3557.5	2891.9	1924.1	1170.5	895.1	830.1	811.0	814.8
22.5°	4265.2	4181.0	4051.0	3461.9	2425.2	1281.5	841.6	799.5	788.0	772.7	776.5
25°	4467.9	4391.4	4119.8	3297.4	1729.0	849.2	780.4	757.4	738.3	719.2	715.3
27.5°	4647.7	4552.1	4192.5	2960.8	1082.6	730.6	723.0	696.2	657.9	627.3	615.9
30°	4823.7	4712.8	4211.6	2329.6	730.6	661.8	642.6	600.6	550.8	508.8	501.1
32.5°	5118.2	4984.3	4184.9	1664.0	631.2	589.1	547.0	497.3	424.6	390.2	382.5
35°	5577.3	5374.5	4150.4	979.3	566.1	520.2	455.2	390.2	336.6	302.2	294.5
37.5°	6105.2	5753.2	4051.0	654.1	520.2	459.0	374.9	309.8	263.9	237.2	229.5
40°	6889.3	6307.9	3668.5	535.5	462.9	390.2	302.2	244.8	210.4	191.3	183.6
42.5°	7753.9	6942.9	3079.4	482.0	409.3	332.8	241.0	198.9	172.1	153.0	153.0
45°	8790.5	7604.7	2375.5	439.9	363.4	275.4	198.9	160.7	137.7	122.4	114.8
47.5°	9945.7	8205.2	1602.8	397.8	306.0	225.7	164.5	122.4	99.5	88.0	88.0
50°	10978.6	8737.0	1021.4	348.1	267.8	187.4	133.9	99.5	80.3	65.0	61.2
52.5°	11915.8	9142.4	703.9	306.0	229.5	153.0	110.9	80.3	61.2	49.7	49.7
55°	12875.9	9349.0	520.2	263.9	198.9	130.1	91.8	72.7	53.6	42.1	38.3
57.5°	13663.9	9437.0	397.8	229.5	168.3	103.3	80.3	61.2	45.9	34.4	30.6
60°	14337.2	9394.9	309.8	191.3	133.9	88.0	68.9	49.7	38.3	26.8	23.0
62.5°	14731.2	9142.4	244.8	164.5	107.1	76.5	57.4	42.1	26.8	19.1	15.3
65°	14738.8	8606.9	191.3	122.4	80.3	65.0	49.7	34.4	19.1	7.7	3.8
67.5°	13683.1	7447.8	153.0	95.6	65.0	49.7	38.3	26.8	7.7	0.0	0.0
70°	10703.2	5634.6	126.2	76.5	53.6	42.1	26.8	15.3	3.8	0.0	0.0
72.5°	6820.5	3373.9	103.3	61.2	45.9	30.6	19.1	11.5	0.0	0.0	0.0
75°	2853.7	1040.5	80.3	53.6	34.4	23.0	15.3	3.8	0.0	0.0	0.0
77.5°	734.5	329.0	65.0	45.9	34.4	19.1	11.5	3.8	0.0	0.0	0.0
80°	218.0	122.4	53.6	38.3	26.8	15.3	7.7	3.8	0.0	0.0	0.0
82.5°	99.5	72.7	45.9	34.4	23.0	15.3	7.7	0.0	0.0	0.0	0.0
85°	38.3	23.0	23.0	19.1	19.1	11.5	3.8	0.0	0.0	0.0	0.0
87.5°	15.3	7.7	7.7	7.7	3.8	3.8	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)