

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: P481423

Luminaire Tested: **IFLD-L-SA8A-827-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481423
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-827-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

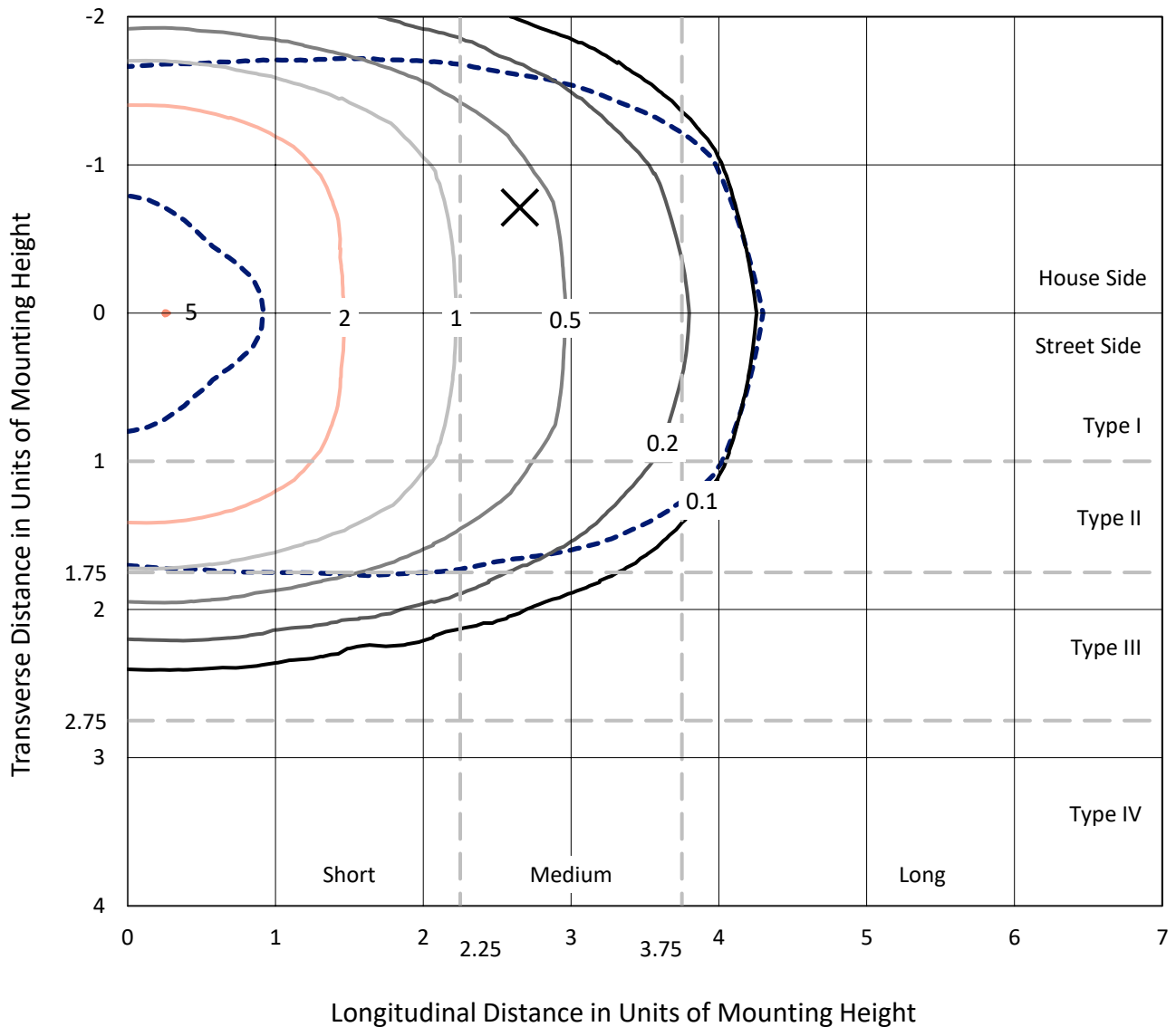
Lumens per Lamp: N/A
Luminaire Lumens: 25937.9 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 247.8
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

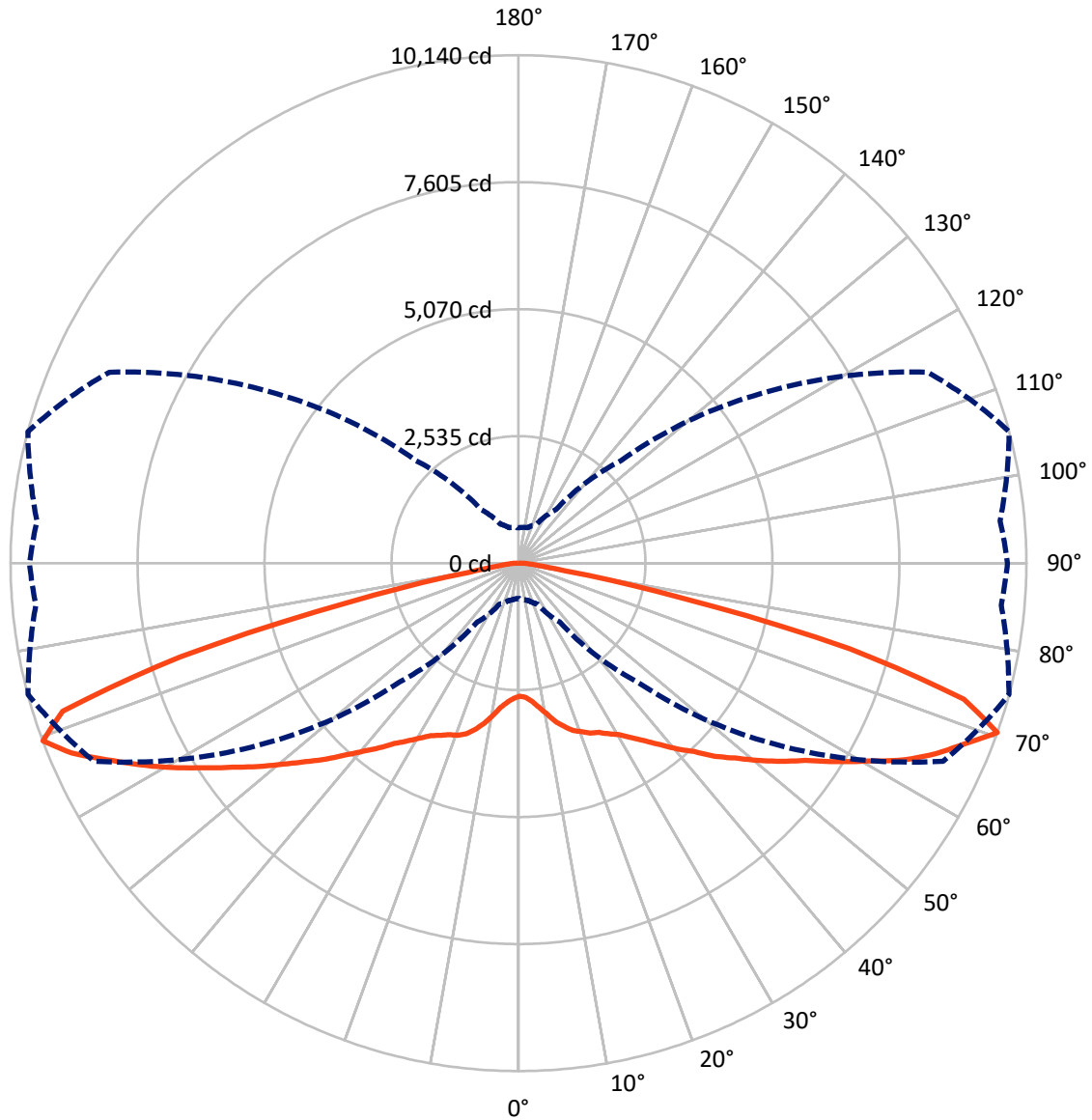
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12876.7	0.0	12876.7
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	13061.2	0.0	13061.2
	% Fixture	50.4	0.0	50.4
Total	Lumens	25937.9	0.0	25937.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.4	1.0
10°-20°	900.1	3.5
20°-30°	1743.0	6.7
30°-40°	2948.1	11.4
40°-50°	4703.1	18.1
50°-60°	6437.5	24.8
60°-70°	6067.7	23.4
70°-80°	2673.0	10.3
80°-90°	201.1	0.8
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°	25937.9	100.0
0°-180°	25937.9	100.0

Coefficient of Utilization

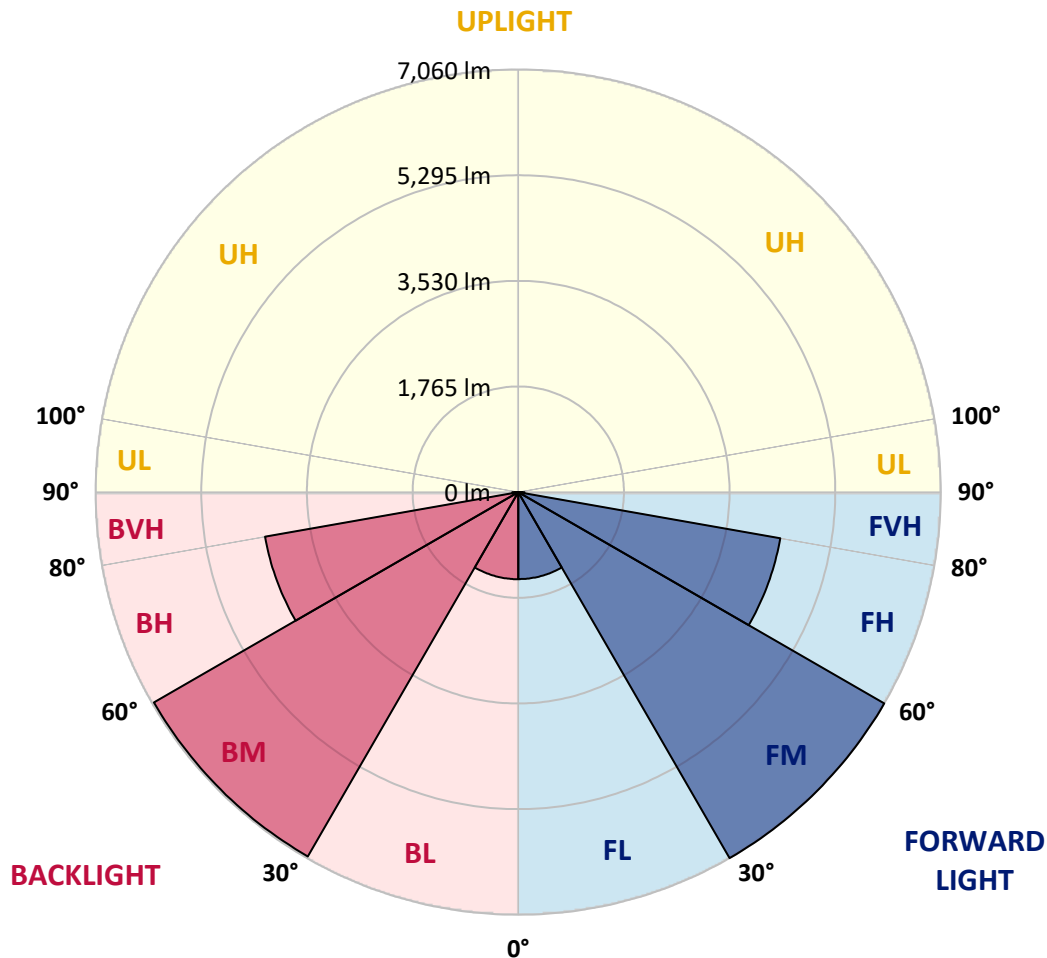


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1452.9	5.6			
FM (30°-60°)	7060.1	27.2			
FH (60°-80°)	4445.5	17.1			G2/5000
FVH (80°-90°)	102.7	0.4			G2/225
BL (0°-30°)	1454.5	5.6	B3/2500		
BM (30°-60°)	7028.5	27.1	B4/8500		
BH (60°-80°)	4295.3	16.6	B4/5000		G4/5000
BVH (80°-90°)	98.4	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2656.0	2656.0	2656.0	2656.0	2656.0	2656.0	2656.0	2656.0	2656.0	2656.0	2656.0
2.5°	2639.2	2639.2	2636.4	2650.4	2664.4	2670.0	2681.2	2684.0	2700.7	2686.8	2714.7
5°	2630.9	2628.1	2650.4	2684.0	2684.0	2720.3	2742.7	2773.4	2781.8	2798.6	2804.2
7.5°	2689.6	2684.0	2672.8	2709.1	2739.9	2795.8	2826.6	2879.7	2899.3	2921.6	2946.8
10°	2725.9	2725.9	2714.7	2779.0	2807.0	2882.5	2949.6	3002.7	3078.2	3103.3	3106.1
12.5°	2731.5	2739.9	2773.4	2857.3	2935.6	3033.4	3083.8	3184.4	3259.9	3307.4	3324.2
15°	2815.4	2798.6	2834.9	2949.6	3064.2	3150.9	3240.3	3313.0	3422.1	3483.6	3522.7
17.5°	2890.9	2874.1	2941.2	3078.2	3195.6	3329.8	3408.1	3486.4	3564.7	3620.6	3623.4
20°	3011.1	3025.1	3083.8	3232.0	3385.7	3503.1	3592.6	3606.6	3645.7	3726.8	3712.8
22.5°	3159.3	3148.1	3271.1	3433.2	3601.0	3698.9	3749.2	3712.8	3693.3	3779.9	3799.5
25°	3307.4	3341.0	3452.8	3603.8	3805.1	3936.5	3950.5	3849.8	3777.1	3807.9	3799.5
27.5°	3533.9	3539.5	3656.9	3835.8	4039.9	4154.6	4146.2	4003.6	3863.8	3866.6	3872.2
30°	3824.7	3796.7	3925.3	4087.5	4288.8	4392.2	4406.2	4202.1	4014.8	3958.9	3972.8
32.5°	4104.2	4137.8	4249.6	4434.1	4582.3	4641.0	4610.3	4428.6	4185.3	4109.8	4118.2
35°	4462.1	4456.5	4610.3	4766.8	4878.7	4889.9	4864.7	4599.1	4369.8	4272.0	4232.8
37.5°	4845.1	4895.5	4996.1	5124.7	5242.1	5247.7	5110.7	4898.3	4615.9	4453.7	4501.2
40°	5272.9	5328.8	5401.5	5588.8	5675.5	5586.0	5446.2	5158.3	4864.7	4722.1	4744.5
42.5°	5650.3	5675.5	5823.7	6044.5	6086.5	6047.3	5840.4	5491.0	5149.9	4993.3	5004.5
45°	5997.0	6030.6	6223.5	6422.0	6519.8	6452.7	6212.3	5879.6	5482.6	5348.4	5295.3
47.5°	6315.7	6382.8	6570.1	6774.2	6925.2	6930.8	6634.4	6231.9	5812.5	5636.3	5633.5
50°	6531.0	6628.9	6813.4	7045.4	7266.3	7353.0	7056.6	6623.3	6173.1	5985.8	5966.2
52.5°	6648.4	6749.1	6933.6	7294.3	7540.3	7674.5	7534.7	6989.5	6595.3	6399.6	6368.8
55°	6505.8	6572.9	6874.9	7380.9	7761.2	7982.0	7889.8	7495.6	7014.7	6855.3	6883.3
57.5°	5899.2	6038.9	6410.8	7042.6	7755.6	8298.0	8289.6	7973.6	7498.4	7347.4	7353.0
60°	4856.3	4973.7	5432.3	6315.7	7442.4	8426.6	8722.9	8437.7	8040.7	7864.6	7859.0
62.5°	3427.7	3575.8	4107.0	5071.6	6519.8	8247.6	9220.6	9022.1	8571.9	8443.3	8490.9
65°	1917.9	2007.4	2499.5	3371.7	4968.1	7263.5	9310.0	9628.8	9111.5	8915.8	8924.2
67.5°	1026.1	1059.6	1288.9	1769.7	3039.0	5600.0	8407.0	9978.2	9695.9	9357.6	9304.4
70°	704.5	715.7	774.4	905.8	1437.0	3349.4	6340.9	9354.8	10134.8	9673.5	9763.0
72.5°	595.5	589.9	603.9	617.9	752.1	1498.6	3721.2	7199.2	9567.2	9393.9	9360.4
75°	517.2	514.4	520.0	506.0	522.8	659.8	1646.7	4487.3	7003.5	7817.1	7942.9
77.5°	427.8	430.6	433.3	419.4	413.8	436.1	662.6	1971.0	3447.2	3805.1	4104.2
80°	324.3	329.9	352.3	338.3	315.9	318.7	391.4	659.8	989.7	897.5	925.4
82.5°	220.9	223.7	271.2	254.4	237.6	215.3	251.6	341.1	385.8	293.6	257.2
85°	156.6	153.8	176.1	162.2	151.0	109.0	151.0	192.9	232.1	145.4	131.4
87.5°	36.3	36.3	72.7	58.7	55.9	44.7	58.7	75.5	100.6	64.3	58.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2656.0	2656.0	2656.0	2656.0	2656.0	2656.0	2656.0	2656.0	2656.0	2656.0
2.5°	2706.3	2681.2	2681.2	2675.6	2653.2	2647.6	2628.1	2633.6	2619.7	2605.7
5°	2801.4	2767.8	2767.8	2720.3	2675.6	2670.0	2647.6	2647.6	2625.3	2630.9
7.5°	2932.8	2902.0	2851.7	2809.8	2748.3	2723.1	2681.2	2675.6	2670.0	2658.8
10°	3089.4	3050.2	2999.9	2913.2	2862.9	2815.4	2773.4	2714.7	2700.7	2703.5
12.5°	3301.8	3240.3	3131.3	3055.8	2991.5	2930.0	2868.5	2781.8	2762.3	2770.6
15°	3452.8	3374.5	3265.5	3237.5	3150.9	3075.4	2974.7	2876.9	2843.3	2834.9
17.5°	3575.8	3511.5	3447.2	3405.3	3335.4	3243.1	3103.3	2991.5	2916.0	2907.6
20°	3676.5	3592.6	3578.6	3603.8	3517.1	3455.6	3285.1	3148.1	3047.4	3005.5
22.5°	3738.0	3684.9	3724.0	3746.4	3740.8	3637.3	3461.2	3301.8	3176.0	3136.9
25°	3805.1	3743.6	3883.4	3958.9	3978.4	3807.9	3670.9	3461.2	3338.2	3313.0
27.5°	3838.6	3861.0	4023.2	4182.5	4168.5	4037.1	3852.6	3665.3	3567.4	3522.7
30°	3936.5	3972.8	4218.9	4397.8	4400.6	4272.0	4132.2	3919.7	3810.7	3791.1
32.5°	4112.6	4157.4	4420.2	4610.3	4643.8	4546.0	4406.2	4274.8	4163.0	4118.2
35°	4246.8	4361.5	4657.8	4831.2	4920.6	4861.9	4783.6	4646.6	4529.2	4490.1
37.5°	4439.7	4599.1	4884.3	5119.1	5219.8	5214.2	5155.5	5007.3	4909.4	4875.9
40°	4716.5	4875.9	5135.9	5446.2	5633.5	5625.2	5591.6	5477.0	5331.6	5314.8
42.5°	5010.1	5141.5	5479.8	5834.8	6103.2	6075.3	5985.8	5851.6	5751.0	5728.6
45°	5295.3	5499.4	5812.5	6268.2	6469.5	6539.4	6433.1	6203.9	6089.3	6075.3
47.5°	5653.1	5815.3	6206.7	6614.9	6914.0	6925.2	6743.5	6531.0	6321.3	6366.0
50°	5971.8	6187.1	6584.1	7031.5	7389.3	7260.7	7028.7	6763.1	6612.1	6553.4
52.5°	6312.9	6575.7	7037.0	7492.8	7691.3	7562.7	7185.2	6888.9	6659.6	6634.4
55°	6810.6	6947.6	7551.5	7900.9	7965.3	7694.1	7137.7	6718.3	6422.0	6349.3
57.5°	7316.6	7476.0	8004.4	8306.3	8239.2	7621.4	6830.2	6181.5	5792.9	5689.5
60°	7828.3	8024.0	8468.5	8745.3	8398.6	7120.9	5960.7	5124.7	4671.8	4579.5
62.5°	8398.6	8653.0	9050.0	9147.9	7926.1	6131.2	4730.5	3698.9	3240.3	3086.6
65°	8904.6	9164.7	9653.9	9064.0	6922.4	4573.9	3058.6	2113.6	1775.3	1652.3
67.5°	9321.2	9614.8	9855.2	8021.2	5068.8	2678.4	1593.6	1112.7	986.9	942.2
70°	9651.1	10140.4	9016.5	5896.4	2896.5	1305.6	861.1	732.5	715.7	704.5
72.5°	9363.2	9298.9	6732.3	3402.5	1269.3	718.5	623.5	603.9	601.1	603.9
75°	7657.7	6830.2	4026.0	1479.0	637.4	520.0	517.2	508.8	522.8	522.8
77.5°	3715.6	3248.7	1683.1	634.6	419.4	408.2	422.2	422.2	422.2	422.2
80°	861.1	953.4	601.1	385.8	304.7	304.7	335.5	338.3	324.3	318.7
82.5°	293.6	391.4	329.9	243.2	201.3	226.5	254.4	260.0	215.3	218.1
85°	145.4	229.3	178.9	139.8	103.4	139.8	165.0	173.3	148.2	142.6
87.5°	67.1	100.6	67.1	47.5	36.3	50.3	47.5	39.1	22.4	22.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)