

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: P481416

Luminaire Tested: **IFLD-M-SA4D-827-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481416
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-827-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23687.3 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

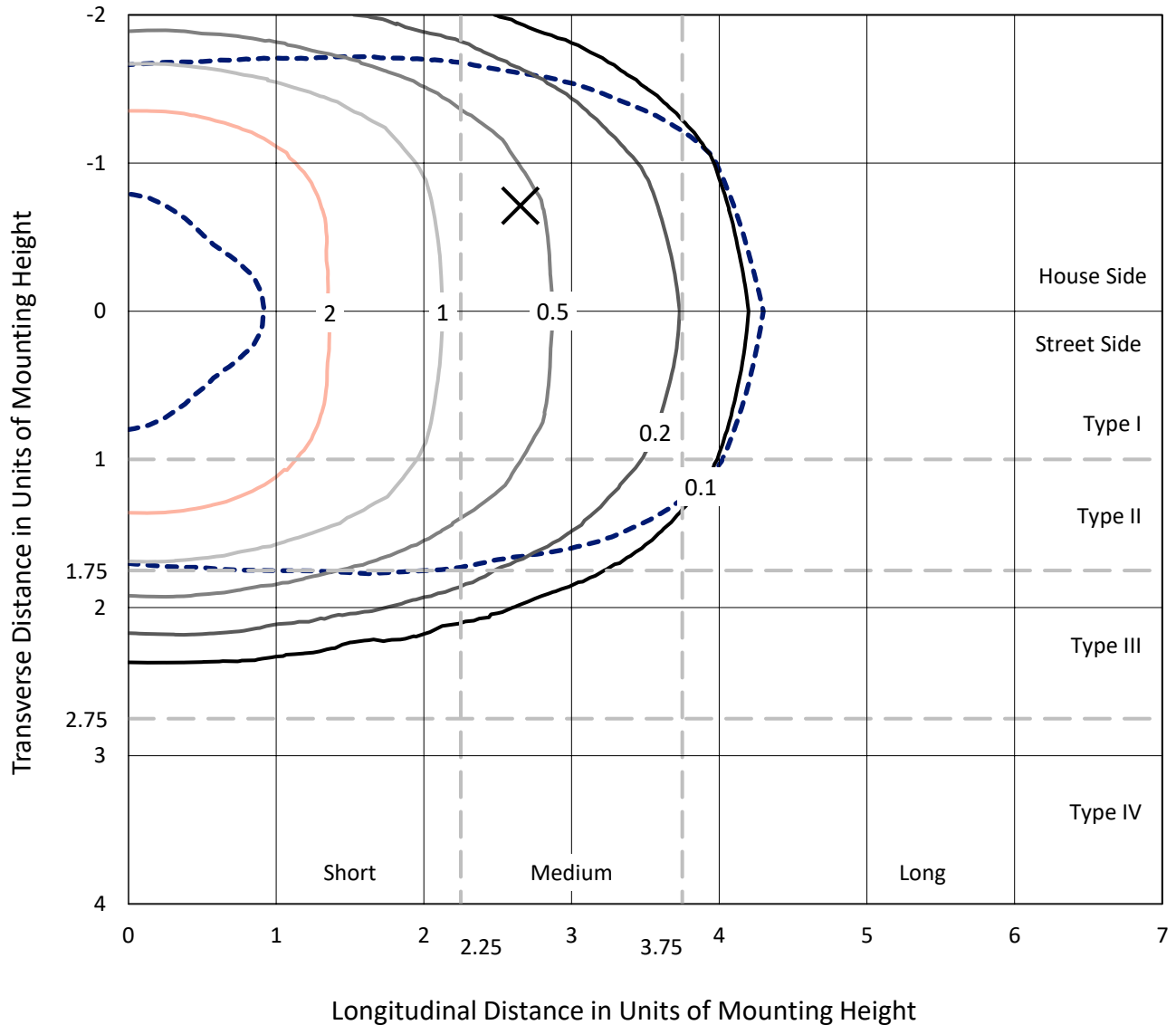
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

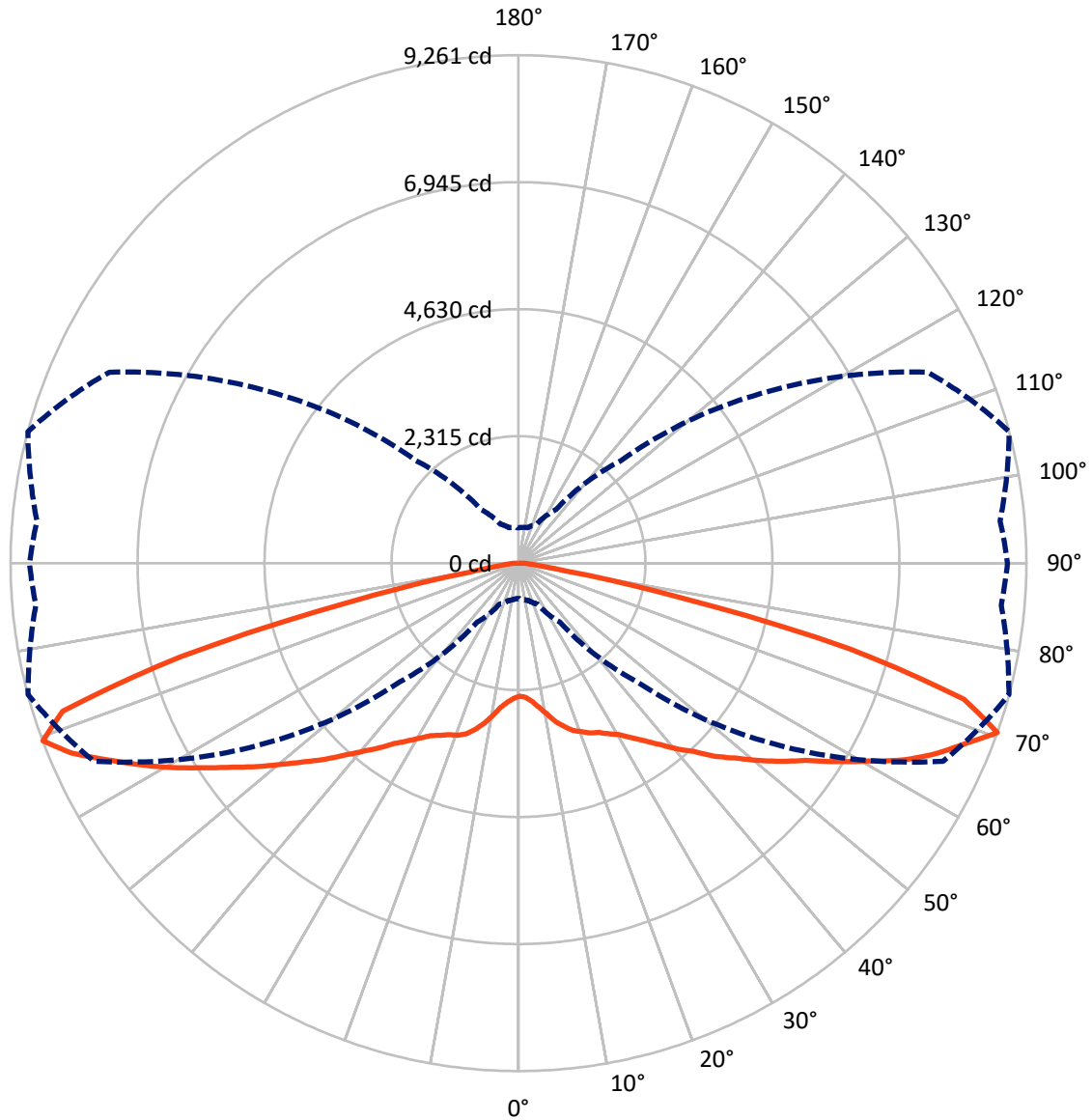
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	11759.4	0.0	11759.4
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	11927.9	0.0	11927.9
	% Fixture	50.4	0.0	50.4
Total	Lumens	23687.3	0.0	23687.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.4	1.0
10°-20°	822.0	3.5
20°-30°	1591.7	6.7
30°-40°	2692.3	11.4
40°-50°	4295.0	18.1
50°-60°	5878.9	24.8
60°-70°	5541.3	23.4
70°-80°	2441.1	10.3
80°-90°	183.7	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°	23687.3	100.0
0°-180°	23687.3	100.0

Coefficient of Utilization

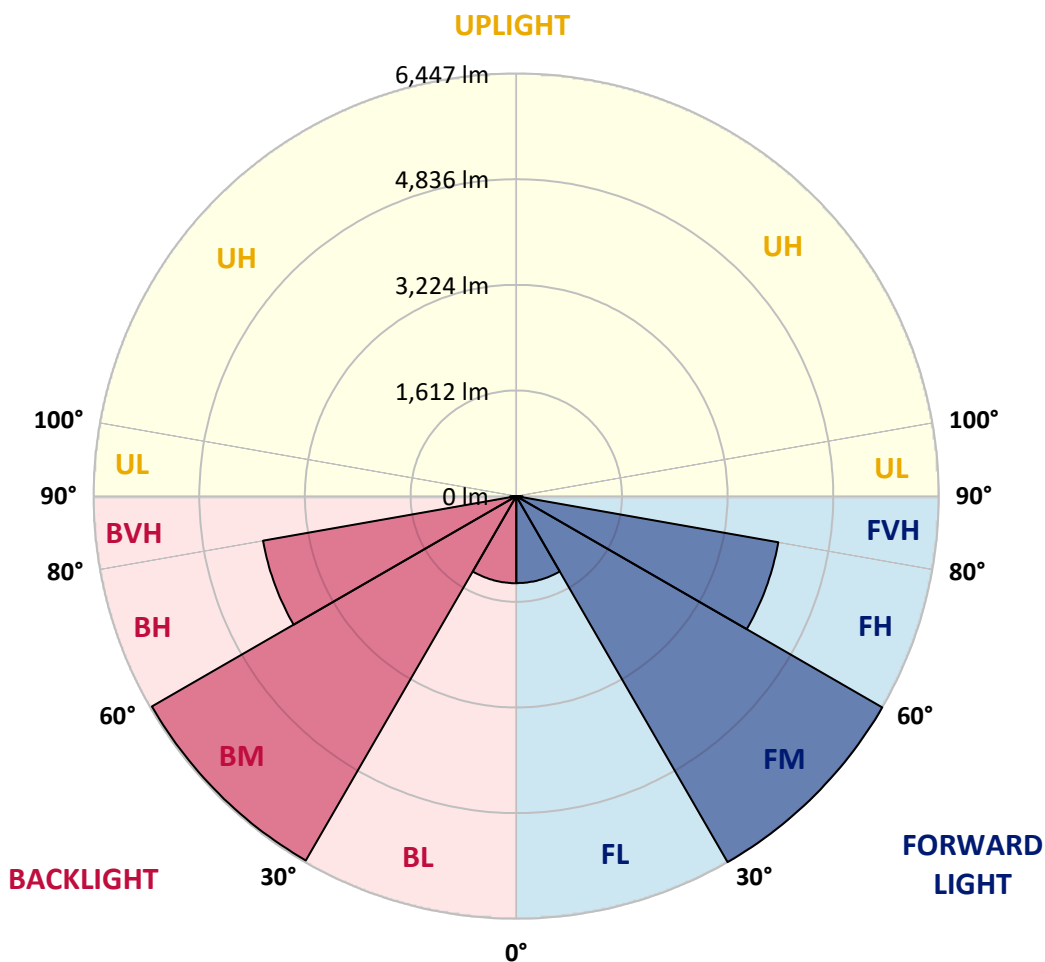


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1326.9	5.6			
FM (30°-60°)	6447.5	27.2			
FH (60°-80°)	4059.7	17.1			G2/5000
FVH (80°-90°)	93.8	0.4			G1/100
BL (0°-30°)	1328.3	5.6	B3/2500		
BM (30°-60°)	6418.7	27.1	B4/8500		
BH (60°-80°)	3922.6	16.6	B4/5000		G4/5000
BVH (80°-90°)	89.8	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°	2425.6	2425.6	2425.6	2425.6	2425.6	2425.6	2425.6	2425.6	2425.6	2425.6	2425.6
2.5°	2410.2	2410.2	2407.7	2420.5	2433.2	2438.3	2448.5	2451.1	2466.4	2453.6	2479.2
5°	2402.6	2400.0	2420.5	2451.1	2451.1	2484.3	2504.7	2532.8	2540.5	2555.8	2560.9
7.5°	2456.2	2451.1	2440.9	2474.1	2502.2	2553.2	2581.3	2629.8	2647.7	2668.1	2691.1
10°	2489.4	2489.4	2479.2	2537.9	2563.4	2632.4	2693.6	2742.2	2811.1	2834.1	2836.6
12.5°	2494.5	2502.2	2532.8	2609.4	2680.9	2770.2	2816.2	2908.1	2977.1	3020.5	3035.8
15°	2571.1	2555.8	2589.0	2693.6	2798.3	2877.5	2959.2	3025.6	3125.1	3181.3	3217.1
17.5°	2640.0	2624.7	2686.0	2811.1	2918.3	3040.9	3112.4	3183.9	3255.4	3306.4	3309.0
20°	2749.8	2762.6	2816.2	2951.5	3092.0	3199.2	3280.9	3293.7	3329.4	3403.4	3390.7
22.5°	2885.1	2874.9	2987.3	3135.4	3288.6	3377.9	3423.9	3390.7	3372.8	3452.0	3469.8
25°	3020.5	3051.1	3153.2	3291.1	3474.9	3594.9	3607.7	3515.8	3449.4	3477.5	3469.8
27.5°	3227.3	3232.4	3339.6	3503.0	3689.4	3794.1	3786.4	3656.2	3528.6	3531.1	3536.2
30°	3492.8	3467.3	3584.7	3732.8	3916.6	4011.1	4023.9	3837.5	3666.4	3615.4	3628.1
32.5°	3748.1	3778.8	3880.9	4049.4	4184.7	4238.3	4210.3	4044.3	3822.2	3753.2	3760.9
35°	4074.9	4069.8	4210.3	4353.2	4455.4	4465.6	4442.6	4200.1	3990.7	3901.3	3865.6
37.5°	4424.7	4470.7	4562.6	4680.1	4787.3	4792.4	4667.3	4473.2	4215.4	4067.3	4110.7
40°	4815.4	4866.4	4932.8	5103.9	5183.0	5101.3	4973.7	4710.7	4442.6	4312.4	4332.8
42.5°	5160.1	5183.0	5318.4	5520.1	5558.4	5522.6	5333.7	5014.5	4703.0	4560.1	4570.3
45°	5476.7	5507.3	5683.5	5864.8	5954.1	5892.8	5673.3	5369.4	5006.9	4884.3	4835.8
47.5°	5767.7	5829.0	6000.1	6186.5	6324.3	6329.4	6058.8	5691.1	5308.1	5147.3	5144.7
50°	5964.3	6053.7	6222.2	6434.1	6635.8	6715.0	6444.3	6048.6	5637.5	5466.4	5448.6
52.5°	6071.6	6163.5	6332.0	6661.4	6886.0	7008.6	6880.9	6383.1	6023.1	5844.3	5816.2
55°	5941.3	6002.6	6278.4	6740.5	7087.7	7289.4	7205.2	6845.2	6406.0	6260.5	6286.0
57.5°	5387.3	5515.0	5854.5	6431.6	7082.6	7578.0	7570.3	7281.8	6847.7	6709.9	6715.0
60°	4434.9	4542.2	4960.9	5767.7	6796.7	7695.4	7966.1	7705.6	7343.1	7182.2	7177.1
62.5°	3130.3	3265.6	3750.7	4631.5	5954.1	7532.0	8420.5	8239.2	7828.2	7710.7	7754.1
65°	1751.5	1833.2	2282.6	3079.2	4537.1	6633.3	8502.2	8793.3	8321.0	8142.2	8149.9
67.5°	937.0	967.7	1177.0	1616.2	2775.4	5114.1	7677.5	9112.5	8854.6	8545.6	8497.1
70°	643.4	653.6	707.2	827.2	1312.4	3058.8	5790.7	8543.1	9255.4	8834.1	8915.9
72.5°	543.8	538.7	551.5	564.3	686.8	1368.5	3398.3	6574.5	8737.1	8578.8	8548.2
75°	472.3	469.8	474.9	462.1	477.5	602.6	1503.8	4097.9	6395.8	7138.8	7253.7
77.5°	390.6	393.2	395.7	383.0	377.9	398.3	605.1	1800.0	3148.1	3474.9	3748.1
80°	296.2	301.3	321.7	308.9	288.5	291.1	357.5	602.6	903.8	819.6	845.1
82.5°	201.7	204.3	247.7	232.3	217.0	196.6	229.8	311.5	352.3	268.1	234.9
85°	143.0	140.4	160.9	148.1	137.9	99.6	137.9	176.2	211.9	132.8	120.0
87.5°	33.2	33.2	66.4	53.6	51.1	40.9	53.6	68.9	91.9	58.7	53.6
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°	2425.6	2425.6	2425.6	2425.6	2425.6	2425.6	2425.6	2425.6	2425.6	2425.6
2.5°	2471.5	2448.5	2448.5	2443.4	2423.0	2417.9	2400.0	2405.1	2392.4	2379.6
5°	2558.3	2527.7	2527.7	2484.3	2443.4	2438.3	2417.9	2417.9	2397.5	2402.6
7.5°	2678.3	2650.2	2604.3	2566.0	2509.8	2486.8	2448.5	2443.4	2438.3	2428.1
10°	2821.3	2785.6	2739.6	2660.5	2614.5	2571.1	2532.8	2479.2	2466.4	2469.0
12.5°	3015.4	2959.2	2859.6	2790.7	2731.9	2675.8	2619.6	2540.5	2522.6	2530.2
15°	3153.2	3081.7	2982.2	2956.6	2877.5	2808.5	2716.6	2627.3	2596.6	2589.0
17.5°	3265.6	3206.8	3148.1	3109.8	3046.0	2961.7	2834.1	2731.9	2663.0	2655.4
20°	3357.5	3280.9	3268.1	3291.1	3212.0	3155.8	3000.0	2874.9	2783.0	2744.7
22.5°	3413.7	3365.1	3400.9	3421.3	3416.2	3321.7	3160.9	3015.4	2900.5	2864.7
25°	3474.9	3418.8	3546.4	3615.4	3633.2	3477.5	3352.4	3160.9	3048.5	3025.6
27.5°	3505.6	3526.0	3674.1	3819.6	3806.9	3686.9	3518.3	3347.3	3257.9	3217.1
30°	3594.9	3628.1	3852.8	4016.2	4018.8	3901.3	3773.7	3579.6	3480.0	3462.2
32.5°	3755.8	3796.6	4036.6	4210.3	4240.9	4151.5	4023.9	3903.9	3801.7	3760.9
35°	3878.3	3983.0	4253.7	4412.0	4493.7	4440.1	4368.6	4243.5	4136.2	4100.5
37.5°	4054.5	4200.1	4460.5	4674.9	4766.9	4761.8	4708.1	4572.8	4483.5	4452.8
40°	4307.3	4452.8	4690.3	4973.7	5144.7	5137.1	5106.4	5001.8	4869.0	4853.7
42.5°	4575.4	4695.4	5004.3	5328.6	5573.7	5548.2	5466.4	5343.9	5252.0	5231.6
45°	4835.8	5022.2	5308.1	5724.3	5908.2	5972.0	5875.0	5665.6	5560.9	5548.2
47.5°	5162.6	5310.7	5668.2	6040.9	6314.1	6324.3	6158.4	5964.3	5772.8	5813.7
50°	5453.7	5650.3	6012.8	6421.4	6748.2	6630.7	6418.8	6176.2	6038.4	5984.8
52.5°	5765.2	6005.2	6426.5	6842.6	7023.9	6906.5	6561.8	6291.1	6081.8	6058.8
55°	6219.6	6344.8	6896.3	7215.4	7274.1	7026.5	6518.4	6135.4	5864.8	5798.4
57.5°	6681.8	6827.3	7309.9	7585.6	7524.3	6960.1	6237.5	5645.2	5290.3	5195.8
60°	7149.0	7327.7	7733.7	7986.5	7669.9	6503.1	5443.5	4680.1	4266.4	4182.2
62.5°	7669.9	7902.2	8264.8	8354.1	7238.4	5599.2	4320.1	3377.9	2959.2	2818.8
65°	8132.0	8369.5	8816.3	8277.5	6321.8	4177.1	2793.2	1930.2	1621.3	1509.0
67.5°	8512.4	8780.5	9000.1	7325.2	4629.0	2446.0	1455.3	1016.2	901.3	860.4
70°	8813.7	9260.5	8234.1	5384.7	2645.1	1192.4	786.4	668.9	653.6	643.4
72.5°	8550.7	8492.0	6148.2	3107.3	1159.2	656.2	569.4	551.5	548.9	551.5
75°	6993.3	6237.5	3676.6	1350.7	582.1	474.9	472.3	464.7	477.5	477.5
77.5°	3393.2	2966.8	1537.0	579.6	383.0	372.8	385.5	385.5	385.5	385.5
80°	786.4	870.6	548.9	352.3	278.3	278.3	306.4	308.9	296.2	291.1
82.5°	268.1	357.5	301.3	222.1	183.8	206.8	232.3	237.4	196.6	199.2
85°	132.8	209.4	163.4	127.7	94.5	127.7	150.6	158.3	135.3	130.2
87.5°	61.3	91.9	61.3	43.4	33.2	46.0	43.4	35.7	20.4	20.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)