

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: P481142

Luminaire Tested: **IFLD-M-SA4C-722-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481142
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-722-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

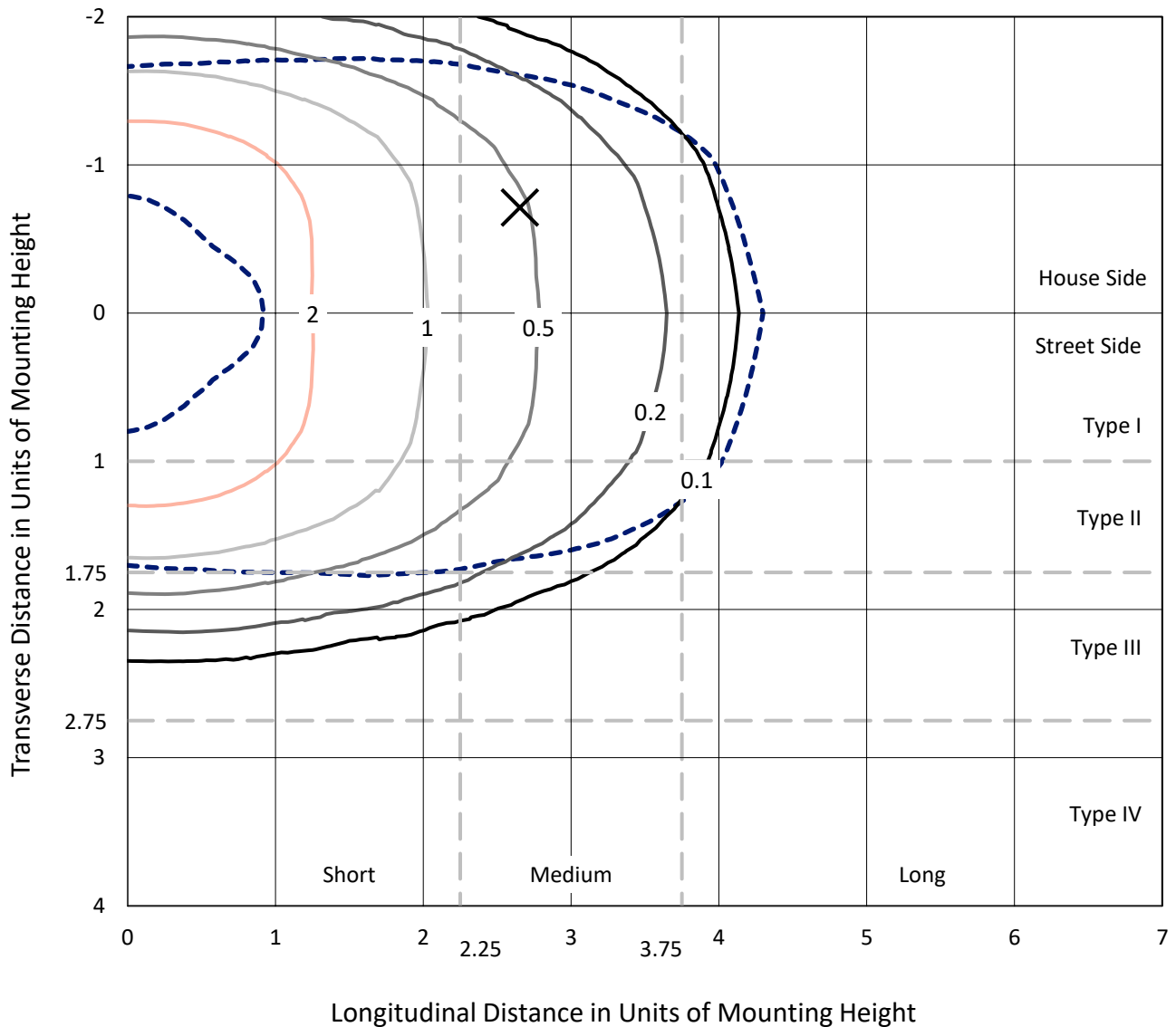
Lumens per Lamp: N/A
Luminaire Lumens: 21571.6 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 218.1
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

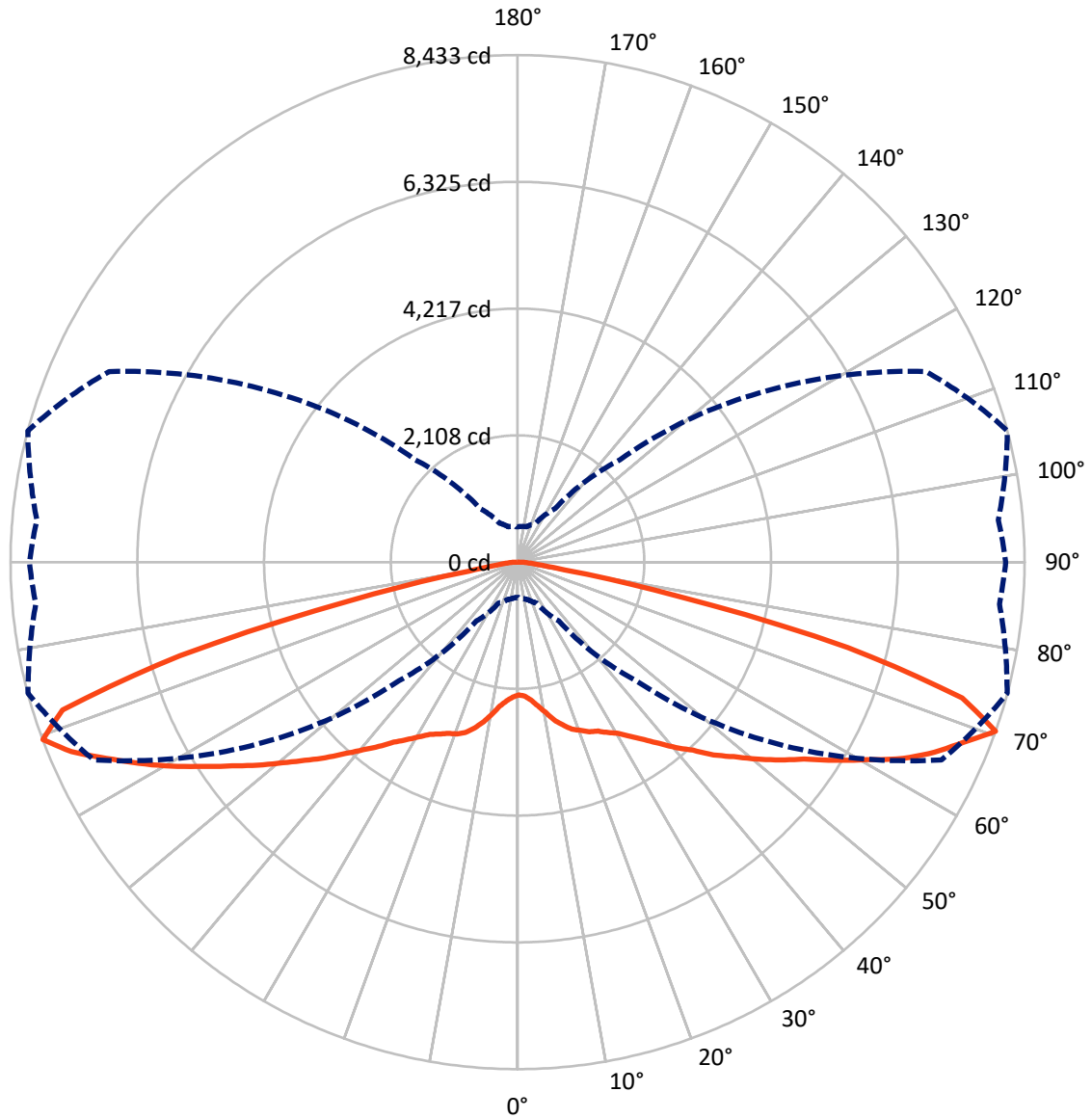
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	10709.1	0.0	10709.1
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	10862.5	0.0	10862.5
	% Fixture	50.4	0.0	50.4
Total	Lumens	21571.6	0.0	21571.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.9	1.0
10°-20°	748.6	3.5
20°-30°	1449.6	6.7
30°-40°	2451.8	11.4
40°-50°	3911.4	18.1
50°-60°	5353.8	24.8
60°-70°	5046.3	23.4
70°-80°	2223.0	10.3
80°-90°	167.3	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°	21571.6	100.0
0°-180°	21571.6	100.0

Coefficient of Utilization



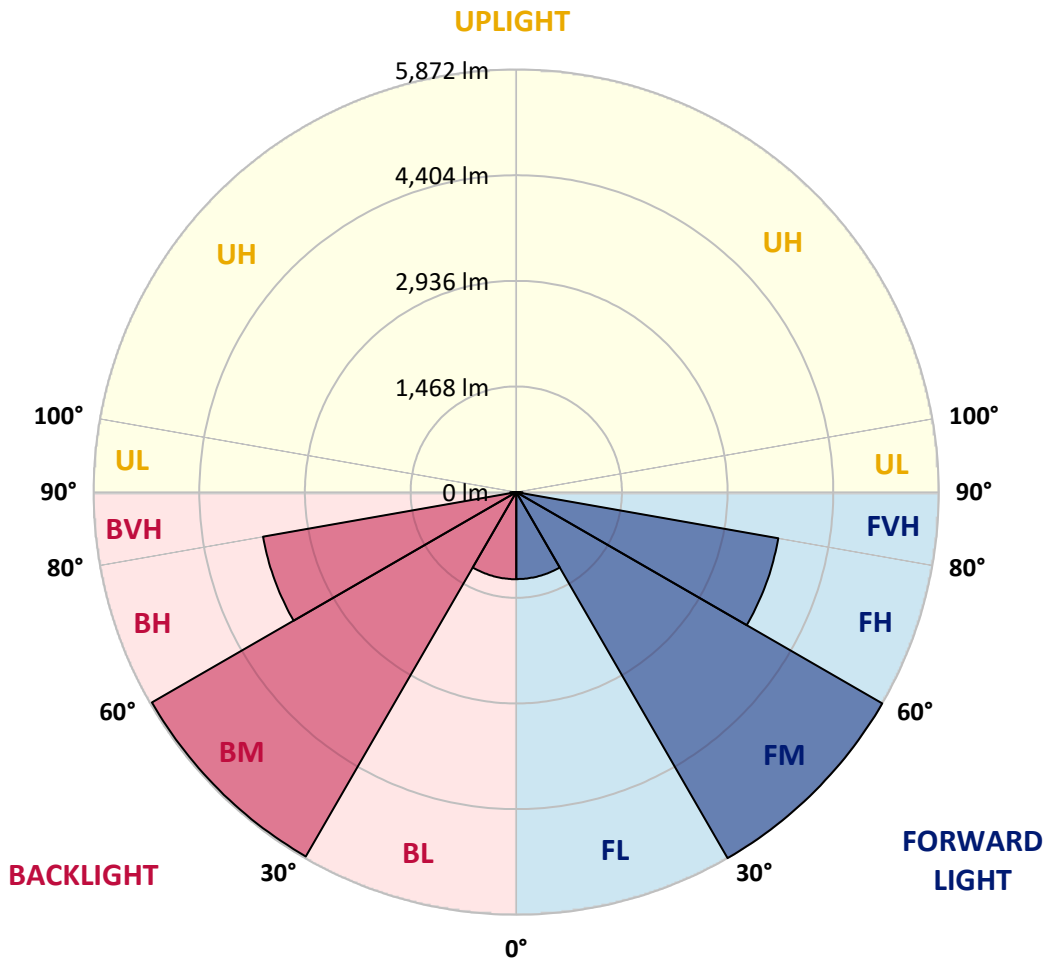
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1208.4	5.6			
FM (30°-60°)	5871.6	27.2			
FH (60°-80°)	3697.1	17.1			G2/5000
FVH (80°-90°)	85.4	0.4			G1/100
BL (0°-30°)	1209.7	5.6	B3/2500		
BM (30°-60°)	5845.4	27.1	B4/8500		
BH (60°-80°)	3572.2	16.6	B4/5000		G4/5000
BVH (80°-90°)	81.8	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°	2208.9	2208.9	2208.9	2208.9	2208.9	2208.9	2208.9	2208.9	2208.9	2208.9	2208.9
2.5°	2195.0	2195.0	2192.6	2204.3	2215.9	2220.5	2229.8	2232.2	2246.1	2234.5	2257.7
5°	2188.0	2185.7	2204.3	2232.2	2232.2	2262.4	2281.0	2306.6	2313.5	2327.5	2332.1
7.5°	2236.8	2232.2	2222.9	2253.1	2278.7	2325.2	2350.7	2394.9	2411.2	2429.8	2450.7
10°	2267.0	2267.0	2257.7	2311.2	2334.5	2397.3	2453.1	2497.2	2560.0	2580.9	2583.3
12.5°	2271.7	2278.7	2306.6	2376.3	2441.4	2522.8	2564.7	2648.4	2711.2	2750.7	2764.6
15°	2341.4	2327.5	2357.7	2453.1	2548.4	2620.5	2694.9	2755.3	2846.0	2897.2	2929.7
17.5°	2404.2	2390.3	2446.1	2560.0	2657.7	2769.3	2834.4	2899.5	2964.6	3011.1	3013.4
20°	2504.2	2515.8	2564.7	2687.9	2815.8	2913.4	2987.8	2999.5	3032.0	3099.5	3087.8
22.5°	2627.4	2618.1	2720.5	2855.3	2994.8	3076.2	3118.1	3087.8	3071.6	3143.6	3159.9
25°	2750.7	2778.6	2871.6	2997.1	3164.6	3273.8	3285.5	3201.8	3141.3	3166.9	3159.9
27.5°	2939.0	2943.7	3041.3	3190.1	3359.9	3455.2	3448.2	3329.6	3213.4	3215.7	3220.4
30°	3180.8	3157.6	3264.5	3399.4	3566.8	3652.8	3664.5	3494.7	3338.9	3292.4	3304.1
32.5°	3413.4	3441.3	3534.3	3687.7	3811.0	3859.8	3834.2	3683.1	3480.8	3418.0	3425.0
35°	3711.0	3706.3	3834.2	3964.4	4057.4	4066.7	4045.8	3824.9	3634.2	3552.9	3520.3
37.5°	4029.5	4071.4	4155.1	4262.0	4359.7	4364.3	4250.4	4073.7	3838.9	3704.0	3743.5
40°	4385.3	4431.8	4492.2	4648.0	4720.1	4645.7	4529.4	4289.9	4045.8	3927.2	3945.8
42.5°	4699.2	4720.1	4843.3	5027.0	5061.9	5029.3	4857.3	4566.6	4283.0	4152.8	4162.1
45°	4987.5	5015.4	5175.8	5340.9	5422.3	5366.5	5166.5	4889.8	4559.7	4448.1	4403.9
47.5°	5252.6	5308.4	5464.2	5633.9	5759.5	5764.1	5517.6	5182.8	4834.0	4687.5	4685.2
50°	5431.6	5513.0	5666.4	5859.4	6043.1	6115.2	5868.7	5508.3	5134.0	4978.2	4961.9
52.5°	5529.3	5613.0	5766.4	6066.4	6271.0	6382.6	6266.3	5812.9	5485.1	5322.3	5296.7
55°	5410.7	5466.5	5717.6	6138.5	6454.7	6638.4	6561.6	6233.8	5833.9	5701.3	5724.6
57.5°	4906.1	5022.4	5331.6	5857.1	6450.0	6901.1	6894.1	6631.4	6236.1	6110.6	6115.2
60°	4038.8	4136.5	4517.8	5252.6	6189.6	7008.1	7254.5	7017.4	6687.2	6540.7	6536.1
62.5°	2850.7	2973.9	3415.7	4217.9	5422.3	6859.3	7668.4	7503.3	7129.0	7022.0	7061.5
65°	1595.1	1669.5	2078.7	2804.2	4131.8	6040.8	7742.8	8007.9	7577.7	7415.0	7422.0
67.5°	853.3	881.2	1071.9	1471.8	2527.5	4657.3	6991.8	8298.5	8063.7	7782.4	7738.2
70°	585.9	595.2	644.1	753.4	1195.1	2785.6	5273.5	7780.0	8428.8	8045.1	8119.5
72.5°	495.3	490.6	502.2	513.9	625.5	1246.3	3094.8	5987.3	7956.7	7812.6	7784.7
75°	430.2	427.8	432.5	420.9	434.8	548.7	1369.5	3731.9	5824.6	6501.2	6605.8
77.5°	355.8	358.1	360.4	348.8	344.1	362.7	551.1	1639.2	2866.9	3164.6	3413.4
80°	269.7	274.4	293.0	281.3	262.7	265.1	325.5	548.7	823.1	746.4	769.6
82.5°	183.7	186.0	225.5	211.6	197.6	179.0	209.3	283.7	320.9	244.1	213.9
85°	130.2	127.9	146.5	134.9	125.6	90.7	125.6	160.4	193.0	120.9	109.3
87.5°	30.2	30.2	60.5	48.8	46.5	37.2	48.8	62.8	83.7	53.5	48.8
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2208.9	2208.9	2208.9	2208.9	2208.9	2208.9	2208.9	2208.9	2208.9	2208.9
2.5°	2250.8	2229.8	2229.8	2225.2	2206.6	2201.9	2185.7	2190.3	2178.7	2167.1
5°	2329.8	2301.9	2301.9	2262.4	2225.2	2220.5	2201.9	2201.9	2183.3	2188.0
7.5°	2439.1	2413.5	2371.7	2336.8	2285.6	2264.7	2229.8	2225.2	2220.5	2211.2
10°	2569.3	2536.8	2494.9	2422.8	2381.0	2341.4	2306.6	2257.7	2246.1	2248.4
12.5°	2746.0	2694.9	2604.2	2541.4	2487.9	2436.8	2385.6	2313.5	2297.3	2304.2
15°	2871.6	2806.5	2715.8	2692.5	2620.5	2557.7	2474.0	2392.6	2364.7	2357.7
17.5°	2973.9	2920.4	2866.9	2832.1	2773.9	2697.2	2580.9	2487.9	2425.2	2418.2
20°	3057.6	2987.8	2976.2	2997.1	2925.1	2873.9	2732.1	2618.1	2534.4	2499.6
22.5°	3108.8	3064.6	3097.1	3115.7	3111.1	3025.0	2878.6	2746.0	2641.4	2608.8
25°	3164.6	3113.4	3229.7	3292.4	3308.7	3166.9	3053.0	2878.6	2776.3	2755.3
27.5°	3192.5	3211.1	3345.9	3478.5	3466.8	3357.5	3204.1	3048.3	2966.9	2929.7
30°	3273.8	3304.1	3508.7	3657.5	3659.8	3552.9	3436.6	3259.9	3169.2	3152.9
32.5°	3420.3	3457.5	3676.1	3834.2	3862.1	3780.7	3664.5	3555.2	3462.2	3425.0
35°	3531.9	3627.3	3873.7	4017.9	4092.3	4043.5	3978.4	3864.4	3766.8	3734.2
37.5°	3692.4	3824.9	4062.1	4257.4	4341.1	4336.4	4287.6	4164.4	4083.0	4055.1
40°	3922.6	4055.1	4271.3	4529.4	4685.2	4678.2	4650.3	4555.0	4434.1	4420.2
42.5°	4166.7	4276.0	4557.3	4852.6	5075.9	5052.6	4978.2	4866.6	4782.9	4764.3
45°	4403.9	4573.6	4834.0	5213.0	5380.4	5438.6	5350.2	5159.6	5064.2	5052.6
47.5°	4701.5	4836.4	5161.9	5501.4	5750.2	5759.5	5608.3	5431.6	5257.2	5294.4
50°	4966.6	5145.6	5475.8	5847.8	6145.4	6038.5	5845.5	5624.6	5499.0	5450.2
52.5°	5250.2	5468.8	5852.5	6231.5	6396.5	6289.6	5975.7	5729.2	5538.6	5517.6
55°	5664.1	5778.1	6280.3	6570.9	6624.4	6398.9	5936.2	5587.4	5340.9	5280.5
57.5°	6085.0	6217.5	6657.0	6908.1	6852.3	6338.4	5680.4	5141.0	4817.8	4731.7
60°	6510.5	6673.2	7042.9	7273.1	6984.8	5922.2	4957.3	4262.0	3885.4	3808.6
62.5°	6984.8	7196.4	7526.6	7608.0	6591.9	5099.1	3934.2	3076.2	2694.9	2567.0
65°	7405.7	7621.9	8028.8	7538.2	5757.1	3804.0	2543.7	1757.8	1476.5	1374.2
67.5°	7752.1	7996.3	8196.2	6670.9	4215.5	2227.5	1325.3	925.4	820.8	783.6
70°	8026.5	8433.4	7498.7	4903.8	2408.9	1085.9	716.2	609.2	595.2	585.9
72.5°	7787.0	7733.5	5599.0	2829.7	1055.6	597.6	518.5	502.2	499.9	502.2
75°	6368.6	5680.4	3348.2	1230.0	530.1	432.5	430.2	423.2	434.8	434.8
77.5°	3090.2	2701.9	1399.8	527.8	348.8	339.5	351.1	351.1	351.1	351.1
80°	716.2	792.9	499.9	320.9	253.4	253.4	279.0	281.3	269.7	265.1
82.5°	244.1	325.5	274.4	202.3	167.4	188.3	211.6	216.2	179.0	181.4
85°	120.9	190.7	148.8	116.3	86.0	116.3	137.2	144.2	123.2	118.6
87.5°	55.8	83.7	55.8	39.5	30.2	41.9	39.5	32.6	18.6	18.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)