

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: P478834

Luminaire Tested: **IFLD-S-SA6A-727-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478834
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-727-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

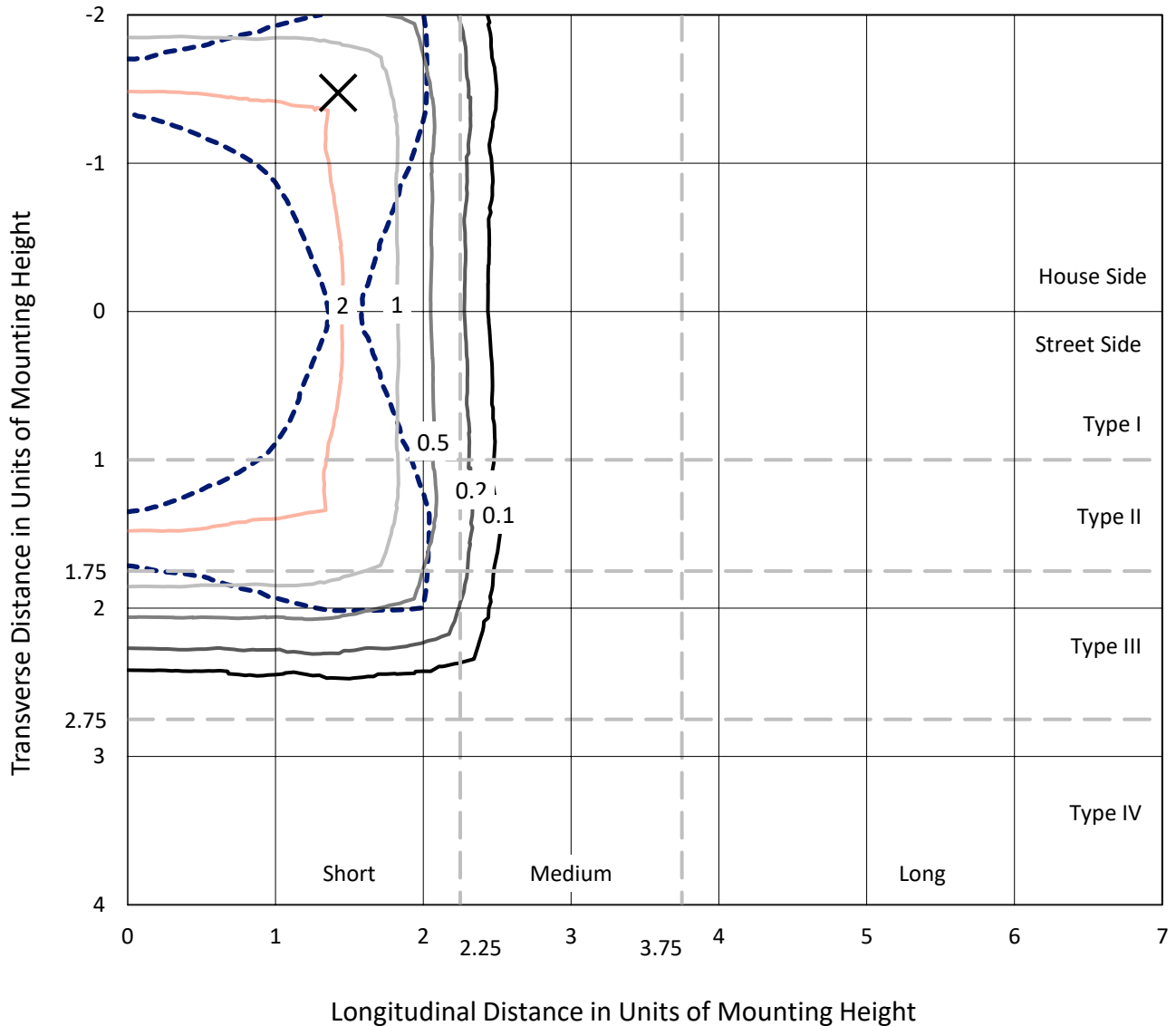
Lumens per Lamp: N/A
Luminaire Lumens: 22512.4 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 189.6
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

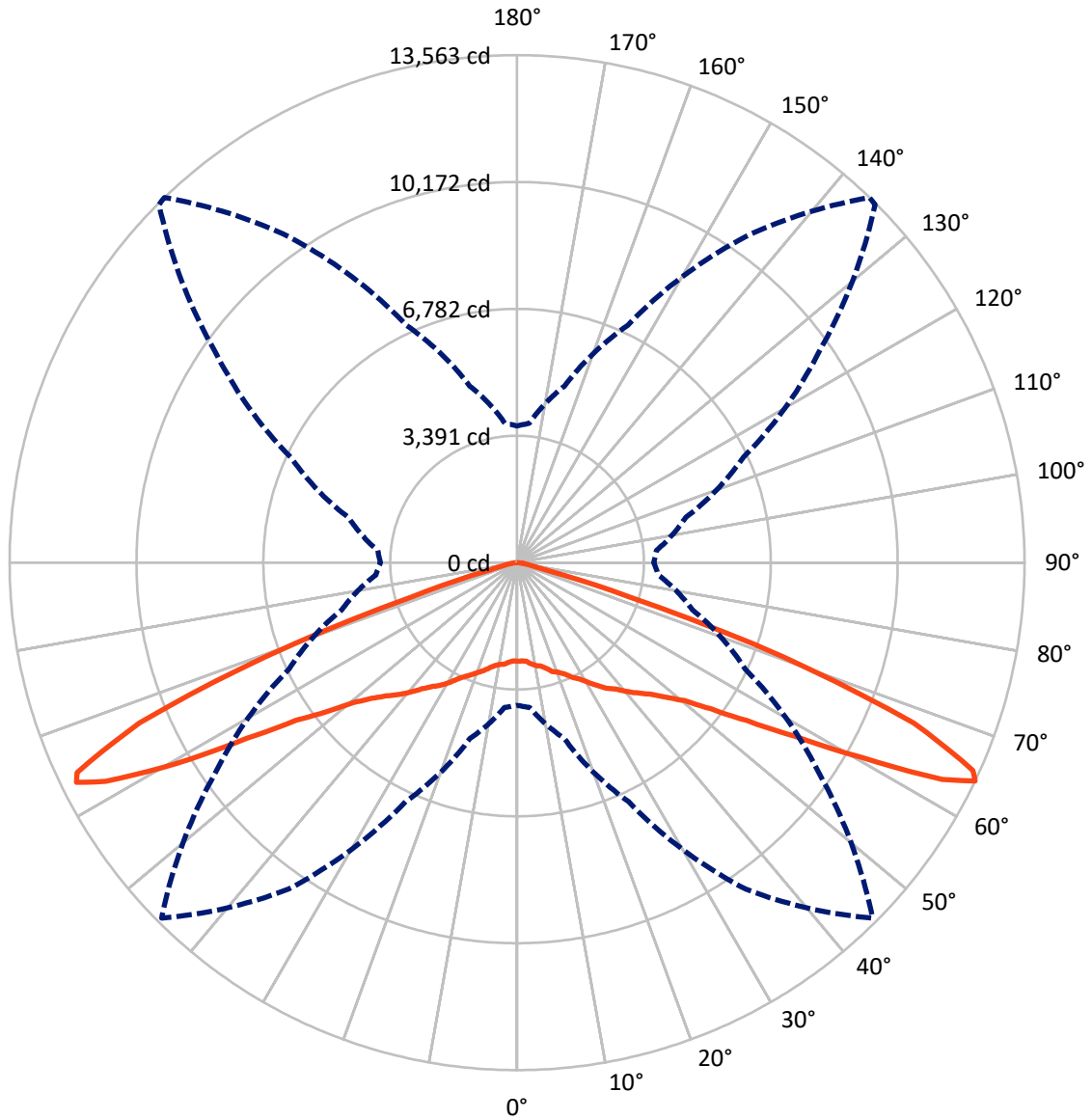
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11266.9	0.0	11266.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11245.5	0.0	11245.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	22512.4	0.0	22512.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.0	1.2
10°-20°	834.7	3.7
20°-30°	1568.7	7.0
30°-40°	2587.1	11.5
40°-50°	4046.1	18.0
50°-60°	6537.5	29.0
60°-70°	5886.6	26.1
70°-80°	697.3	3.1
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°	22512.4	100.0
0°-180°	22512.4	100.0

Coefficient of Utilization



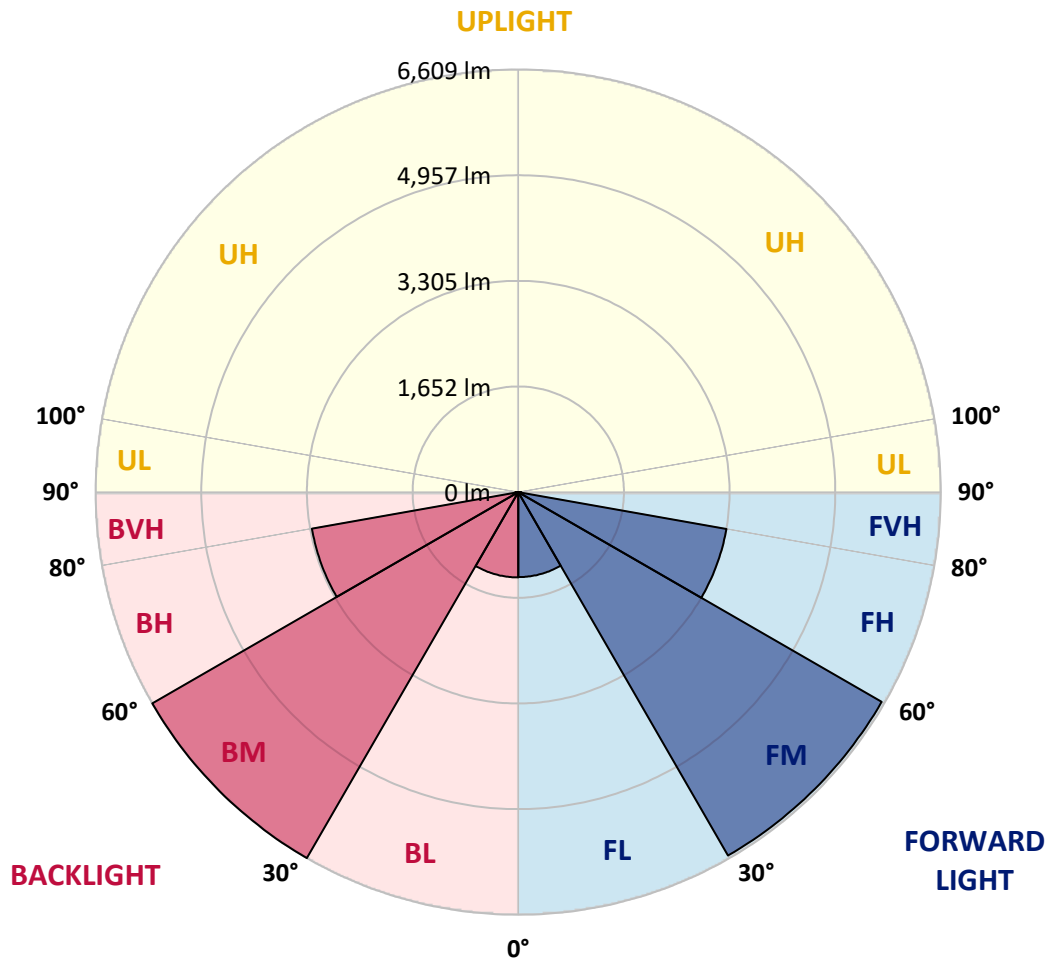
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1328.6	5.9			
FM (30°-60°)	6561.7	29.1			
FH (60°-80°)	3306.2	14.7			G2/5000
FVH (80°-90°)	49.0	0.2			G1/100
BL (0°-30°)	1333.8	5.9	B3/2500		
BM (30°-60°)	6609.0	29.4	B4/8500		
BH (60°-80°)	3277.7	14.6	B4/5000		G2/5000
BVH (80°-90°)	46.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2635.7	2635.7	2635.7	2635.7	2635.7	2635.7	2635.7	2635.7	2635.7	2635.7	2635.7
2.5°	2604.8	2609.9	2656.4	2638.3	2653.8	2625.4	2646.1	2690.0	2638.3	2677.0	2690.0
5°	2633.2	2640.9	2640.9	2659.0	2669.3	2664.1	2677.0	2659.0	2708.0	2687.4	2718.3
7.5°	2736.4	2723.5	2702.9	2718.3	2720.9	2733.8	2746.7	2770.0	2762.2	2744.2	2775.1
10°	2754.5	2744.2	2775.1	2777.7	2764.8	2754.5	2767.4	2767.4	2790.6	2795.8	2795.8
12.5°	2785.5	2795.8	2793.2	2813.9	2816.4	2808.7	2829.4	2868.1	2857.8	2865.5	2847.4
15°	2904.2	2891.3	2888.7	2909.4	2942.9	2893.9	2930.0	2927.5	2917.1	2932.6	2891.3
17.5°	3007.5	2966.2	2984.2	3017.8	3004.9	3015.2	3061.7	3020.4	3030.7	3012.6	2999.7
20°	3097.8	3064.3	3066.9	3079.8	3079.8	3110.7	3128.8	3113.3	3103.0	3100.4	3105.6
22.5°	3198.5	3159.8	3162.4	3216.6	3234.7	3224.3	3211.4	3237.2	3242.4	3221.7	3245.0
25°	3273.4	3314.7	3327.6	3353.4	3314.7	3343.1	3332.8	3381.8	3412.8	3371.5	3399.9
27.5°	3469.6	3451.5	3485.1	3482.5	3513.5	3485.1	3503.1	3518.6	3531.5	3534.1	3521.2
30°	3645.1	3652.9	3619.3	3709.7	3637.4	3683.8	3714.8	3722.6	3738.1	3738.1	3699.3
32.5°	3831.0	3815.5	3869.7	3849.1	3836.1	3872.3	3838.7	3944.6	3882.6	3918.8	3874.9
35°	4040.1	4040.1	4060.7	4117.5	4040.1	4016.9	4078.8	4122.7	4122.7	4058.2	4073.6
37.5°	4275.0	4254.4	4280.2	4352.5	4293.1	4215.6	4329.2	4347.3	4334.4	4316.3	4285.3
40°	4440.2	4435.1	4486.7	4582.2	4497.0	4481.5	4502.2	4551.2	4566.7	4584.8	4543.5
42.5°	4719.0	4742.3	4892.0	4868.8	4799.1	4744.8	4739.7	4923.0	4879.1	4832.6	4809.4
45°	5132.1	5111.4	5188.9	5191.5	5101.1	4982.3	5008.2	5176.0	5250.8	5147.6	5186.3
47.5°	5459.9	5470.3	5524.5	5635.5	5426.4	5302.5	5398.0	5669.0	5645.8	5607.1	5643.2
50°	5898.8	5945.3	6115.6	6076.9	5891.0	5738.7	5947.8	6203.4	6231.8	6089.8	6064.0
52.5°	6505.4	6577.7	6670.7	6701.6	6523.5	6469.3	6482.2	6799.7	6730.0	6593.2	6505.4
55°	7037.2	7070.8	7241.2	7496.8	7483.8	7223.1	7372.8	7491.6	7207.6	6926.2	6949.5
57.5°	7264.4	7279.9	7754.9	8266.1	8570.7	8630.0	8459.7	8059.5	7383.2	6841.0	6807.5
60°	6699.1	6846.2	7419.3	8573.3	9964.7	10651.4	9518.1	8124.1	6972.7	6314.4	6265.4
62.5°	5354.1	5361.8	6213.7	7964.0	10832.1	12631.4	9923.4	7517.4	5878.1	5132.1	4935.9
64°	3812.9	3885.2	4863.6	7050.2	10651.4	13436.8	9874.3	6724.9	4845.5	3787.1	3650.3
65°	2736.4	2837.1	3781.9	6120.8	10228.0	13341.3	9727.2	6043.4	3918.8	2891.3	2751.9
67.5°	1006.8	1048.1	1484.4	3061.7	7344.4	11369.0	7708.4	3322.4	1721.9	1226.2	1102.3
70°	467.3	469.8	549.9	1012.0	3211.4	7602.6	3678.7	1246.9	648.0	513.7	477.6
72.5°	343.3	351.1	384.6	467.3	944.8	3219.2	1208.2	511.1	379.5	335.6	327.9
75°	278.8	284.0	294.3	338.2	436.3	862.2	490.5	353.7	302.0	271.1	260.7
77.5°	214.3	214.3	237.5	258.2	289.1	402.7	325.3	281.4	245.2	214.3	206.5
80°	154.9	157.5	185.9	201.4	196.2	265.9	234.9	232.3	201.4	167.8	154.9
82.5°	90.4	98.1	134.2	144.6	139.4	157.5	170.4	180.7	157.5	116.2	105.8
85°	51.6	54.2	77.4	80.0	80.0	74.9	98.1	108.4	105.8	72.3	64.5
87.5°	15.5	15.5	20.7	20.7	23.2	25.8	38.7	46.5	51.6	36.1	33.6
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°	136°	145°	155°	165°	175°	180°
0°	2635.7	2635.7	2635.7	2635.7	2635.7	2635.7	2635.7	2635.7	2635.7	2635.7	2635.7
2.5°	2677.0	2638.3	2640.9	2651.2	2617.7	2630.6	2669.3	2640.9	2633.2	2617.7	2609.9
5°	2664.1	2705.4	2690.0	2695.1	2687.4	2651.2	2646.1	2669.3	2682.2	2659.0	2705.4
7.5°	2754.5	2736.4	2715.8	2723.5	2705.4	2736.4	2757.1	2710.6	2733.8	2720.9	2695.1
10°	2806.1	2772.6	2788.0	2782.9	2770.0	2801.0	2780.3	2775.1	2754.5	2726.1	2767.4
12.5°	2824.2	2862.9	2888.7	2844.8	2852.6	2837.1	2824.2	2824.2	2801.0	2793.2	2801.0
15°	2904.2	2937.8	2927.5	2961.0	2917.1	2932.6	2948.1	2909.4	2930.0	2873.2	2917.1
17.5°	3051.4	3023.0	3059.1	3015.2	3030.7	3061.7	3012.6	3012.6	3028.1	2997.2	2958.4
20°	3144.3	3131.4	3118.5	3121.1	3095.3	3123.6	3108.2	3100.4	3077.2	3087.5	3108.2
22.5°	3232.1	3214.0	3219.2	3226.9	3245.0	3232.1	3224.3	3232.1	3175.3	3226.9	3154.6
25°	3340.5	3389.5	3374.1	3407.6	3356.0	3389.5	3387.0	3337.9	3368.9	3348.2	3332.8
27.5°	3521.2	3495.4	3518.6	3477.3	3513.5	3516.0	3485.1	3567.7	3531.5	3526.4	3516.0
30°	3753.5	3735.5	3720.0	3696.7	3725.1	3701.9	3727.7	3735.5	3701.9	3676.1	3627.0
32.5°	3885.2	3934.2	3952.3	3895.5	3898.1	3911.0	3887.8	3864.5	3885.2	3892.9	3885.2
35°	4071.1	4117.5	4127.9	4084.0	4060.7	4125.3	4078.8	4156.3	4089.1	4091.7	4022.0
37.5°	4287.9	4300.8	4388.6	4339.5	4318.9	4287.9	4373.1	4362.8	4378.3	4254.4	4316.3
40°	4533.2	4579.6	4628.7	4504.8	4502.2	4530.6	4525.4	4584.8	4556.4	4538.3	4494.4
42.5°	4801.6	4899.7	4907.5	4824.9	4773.2	4768.1	4793.9	4925.6	4928.1	4809.4	4757.8
45°	5157.9	5266.3	5237.9	5077.9	5021.1	5013.3	5139.8	5196.6	5245.7	5199.2	5155.3
47.5°	5601.9	5674.2	5653.5	5506.4	5323.1	5374.7	5498.7	5676.8	5625.1	5563.2	5511.6
50°	6076.9	6162.1	6118.2	5971.1	5795.5	5795.5	5947.8	6175.0	6159.5	6038.2	5991.7
52.5°	6603.5	6727.5	6828.1	6619.0	6471.9	6495.1	6735.2	6817.8	6779.1	6693.9	6655.2
55°	6995.9	7233.4	7440.0	7450.3	7458.0	7455.5	7517.4	7600.0	7323.8	7187.0	7047.6
57.5°	6900.4	7349.6	8056.9	8537.1	8679.1	8754.0	8733.3	8351.2	7698.1	7248.9	7295.4
60°	6218.9	6952.1	8093.1	9634.3	10666.9	10563.6	10186.7	8676.5	7491.6	6732.6	6637.1
62.5°	4961.7	5844.6	7486.4	9944.0	12788.9	12757.9	10785.6	7925.3	6242.1	5281.8	5222.4
64°	3738.1	4667.4	6678.4	9864.0	13532.4	13563.3	10633.3	7001.1	4884.2	3738.1	3647.7
65°	2860.3	3722.6	5885.9	9698.8	13372.3	13390.4	10209.9	6045.9	3712.2	2653.8	2555.7
67.5°	1138.5	1585.1	3193.3	7354.8	11482.6	11433.6	7285.1	2924.9	1419.8	924.2	906.1
70°	485.3	604.1	1120.4	3485.1	7687.8	7545.8	3136.6	950.0	526.6	441.4	438.9
72.5°	333.0	369.2	480.2	1076.5	3195.9	3121.1	893.2	441.4	358.8	330.4	330.4
75°	268.5	294.3	348.5	451.8	846.7	815.8	420.8	325.3	286.5	265.9	263.3
77.5°	209.1	234.9	273.6	312.4	387.2	384.6	281.4	245.2	222.0	206.5	201.4
80°	165.2	191.0	216.8	222.0	253.0	247.8	191.0	193.6	180.7	149.7	147.1
82.5°	113.6	154.9	173.0	157.5	149.7	149.7	136.8	136.8	126.5	92.9	85.2
85°	69.7	103.3	108.4	92.9	69.7	69.7	74.9	72.3	67.1	49.0	46.5
87.5°	36.1	49.0	43.9	36.1	23.2	23.2	20.7	15.5	15.5	12.9	12.9
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)