

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: P478805

Luminaire Tested: **IFLD-L-SA7A-722-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478805
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-722-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

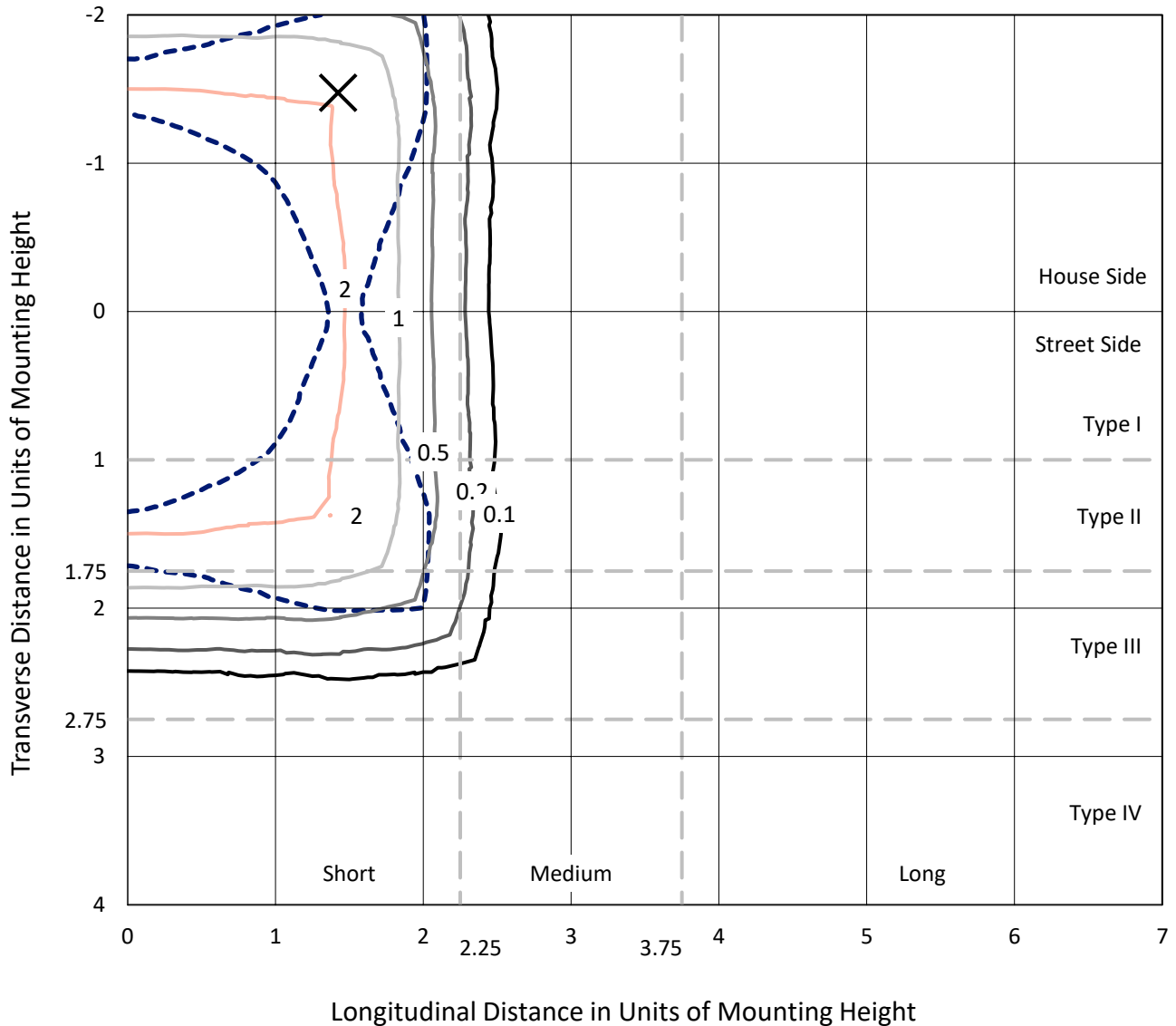
Lumens per Lamp: N/A
Luminaire Lumens: 22995.4 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 217.6
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

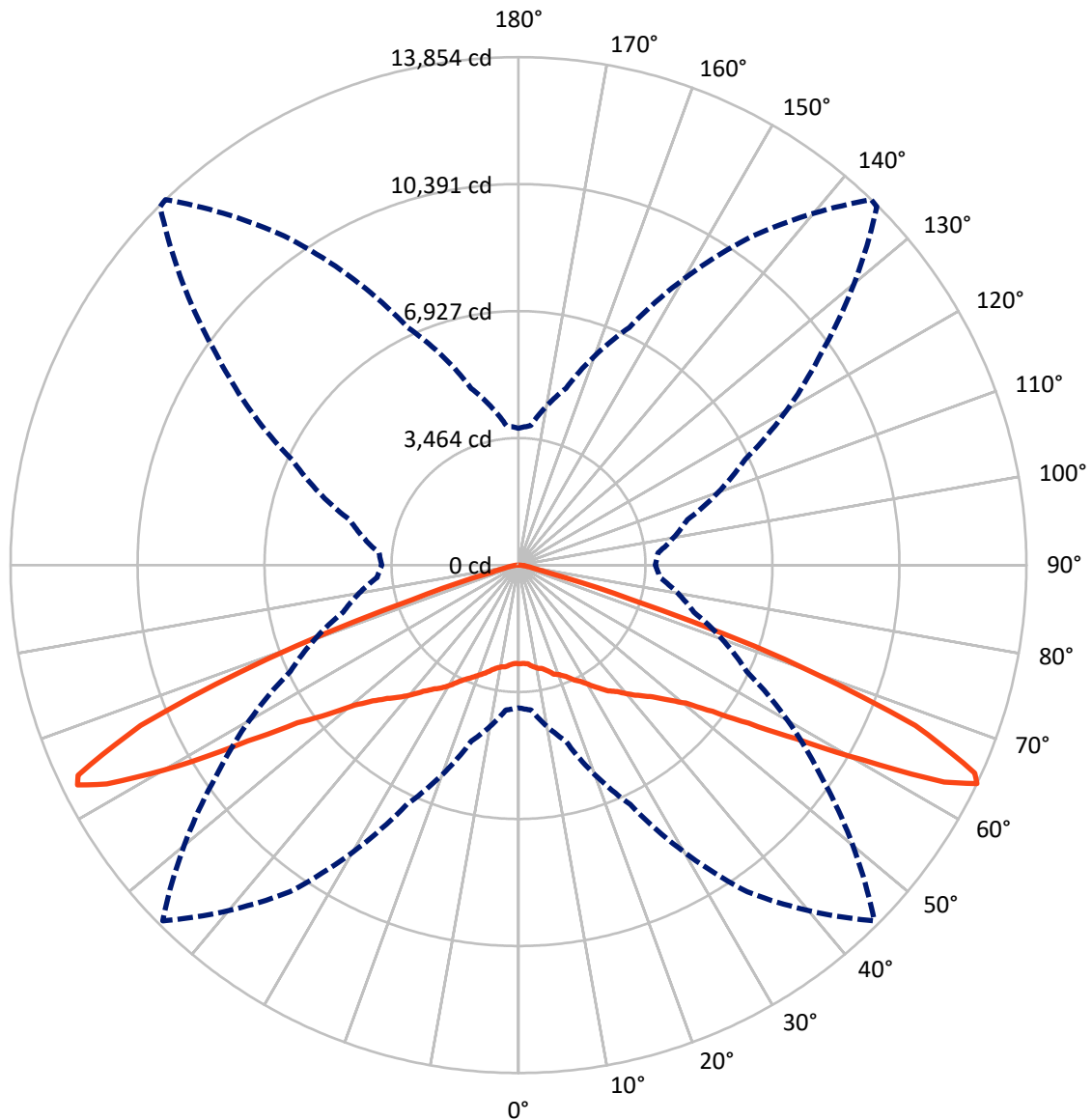
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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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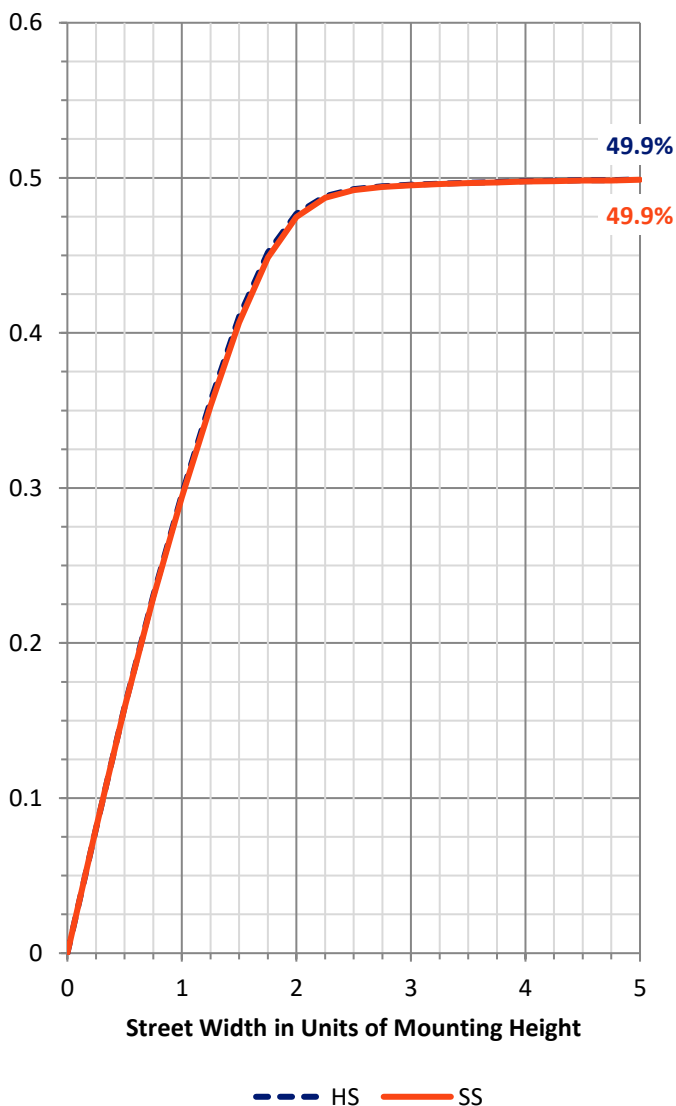
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11508.7	0.0	11508.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11486.7	0.0	11486.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	22995.4	0.0	22995.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.5	1.2
10°-20°	852.6	3.7
20°-30°	1602.4	7.0
30°-40°	2642.6	11.5
40°-50°	4132.9	18.0
50°-60°	6677.7	29.0
60°-70°	6012.9	26.1
70°-80°	712.3	3.1
80°-90°	97.5	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°	22995.4	100.0
0°-180°	22995.4	100.0

Coefficient of Utilization



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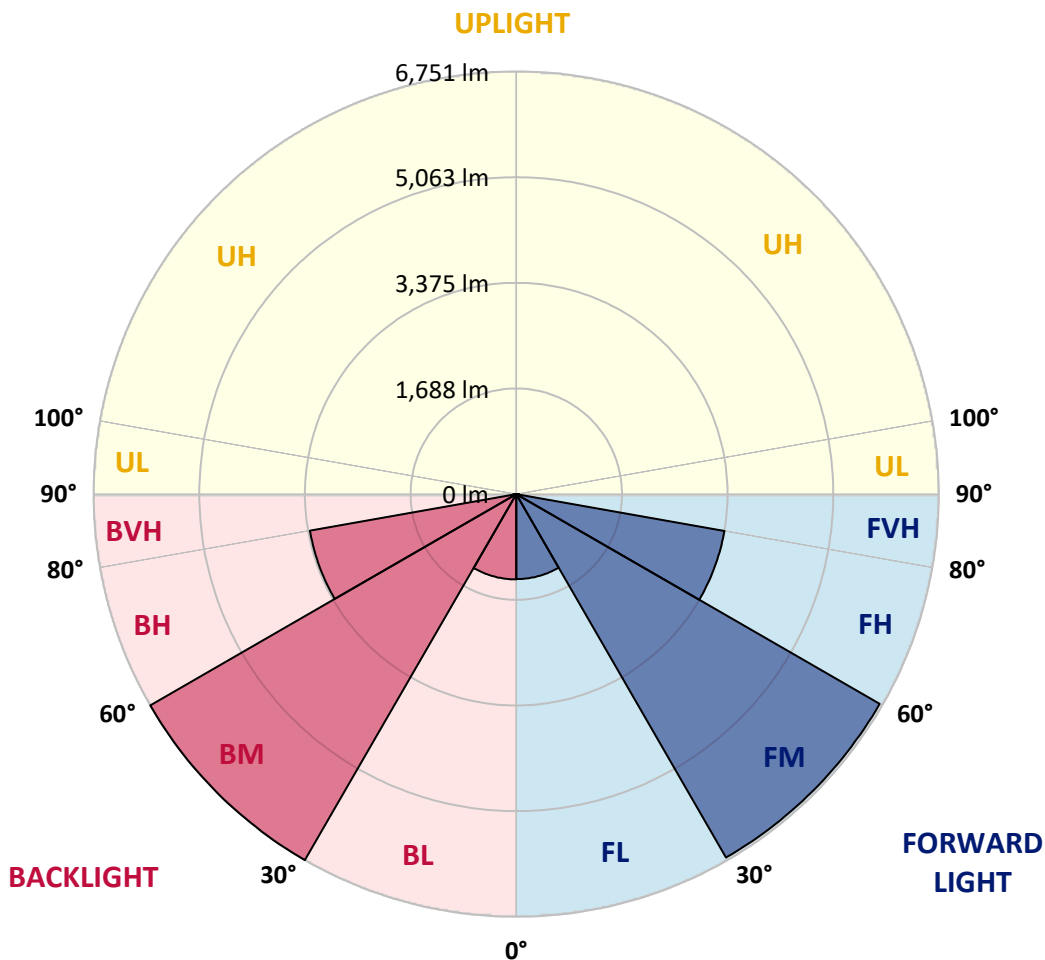
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1357.2	5.9			
FM (30°-60°)	6702.4	29.1			
FH (60°-80°)	3377.1	14.7			G2/5000
FVH (80°-90°)	50.0	0.2			G1/100
BL (0°-30°)	1362.4	5.9	B3/2500		
BM (30°-60°)	6750.8	29.4	B4/8500		
BH (60°-80°)	3348.0	14.6	B4/5000		G2/5000
BVH (80°-90°)	47.5	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°	2692.3	2692.3	2692.3	2692.3	2692.3	2692.3	2692.3	2692.3	2692.3	2692.3	2692.3
2.5°	2660.6	2665.9	2713.4	2694.9	2710.7	2681.7	2702.8	2747.7	2694.9	2734.5	2747.7
5°	2689.7	2697.6	2697.6	2716.0	2726.6	2721.3	2734.5	2716.0	2766.1	2745.0	2776.7
7.5°	2795.1	2781.9	2760.8	2776.7	2779.3	2792.5	2805.7	2829.4	2821.5	2803.0	2834.7
10°	2813.6	2803.0	2834.7	2837.3	2824.1	2813.6	2826.8	2826.8	2850.5	2855.8	2855.8
12.5°	2845.2	2855.8	2853.1	2874.2	2876.9	2869.0	2890.1	2929.6	2919.1	2927.0	2908.5
15°	2966.5	2953.3	2950.7	2971.8	3006.1	2956.0	2992.9	2990.3	2979.7	2995.5	2953.3
17.5°	3072.0	3029.8	3048.3	3082.6	3069.4	3079.9	3127.4	3085.2	3095.7	3077.3	3064.1
20°	3164.3	3130.0	3132.7	3145.8	3145.8	3177.5	3195.9	3180.1	3169.6	3166.9	3172.2
22.5°	3267.1	3227.6	3230.2	3285.6	3304.1	3293.5	3280.3	3306.7	3312.0	3290.9	3314.6
25°	3343.6	3385.8	3399.0	3425.4	3385.8	3414.8	3404.3	3454.4	3486.0	3443.8	3472.8
27.5°	3544.0	3525.6	3559.8	3557.2	3588.8	3559.8	3578.3	3594.1	3607.3	3609.9	3596.8
30°	3723.3	3731.2	3697.0	3789.2	3715.4	3762.9	3794.5	3802.4	3818.3	3818.3	3778.7
32.5°	3913.2	3897.4	3952.7	3931.6	3918.5	3955.4	3921.1	4029.2	3965.9	4002.8	3958.0
35°	4126.8	4126.8	4147.9	4205.9	4126.8	4103.0	4166.3	4211.2	4211.2	4145.2	4161.1
37.5°	4366.7	4345.6	4372.0	4445.8	4385.2	4306.1	4422.1	4440.6	4427.4	4408.9	4377.3
40°	4535.5	4530.2	4583.0	4680.5	4593.5	4577.7	4598.8	4648.9	4664.7	4683.2	4641.0
42.5°	4820.3	4844.0	4997.0	4973.2	4902.0	4846.6	4841.4	5028.6	4983.8	4936.3	4912.6
45°	5242.2	5221.1	5300.2	5302.8	5210.5	5089.2	5115.6	5287.0	5363.5	5258.0	5297.6
47.5°	5577.1	5587.6	5643.0	5756.4	5542.8	5416.2	5513.8	5790.7	5766.9	5727.4	5764.3
50°	6025.3	6072.8	6246.8	6207.3	6017.4	5861.9	6075.4	6336.5	6365.5	6220.5	6194.1
52.5°	6645.0	6718.9	6813.8	6845.4	6663.5	6608.1	6621.3	6945.6	6874.4	6734.7	6645.0
55°	7188.2	7222.5	7396.5	7657.6	7644.4	7378.1	7531.0	7652.3	7362.3	7074.8	7098.6
57.5°	7420.3	7436.1	7921.3	8443.4	8754.6	8815.2	8641.2	8232.4	7541.6	6987.8	6953.5
60°	6842.8	6993.1	7578.5	8757.2	10178.5	10879.9	9722.3	8298.4	7122.3	6449.9	6399.8
62.5°	5469.0	5476.9	6347.1	8134.9	11064.5	12902.4	10136.3	7678.7	6004.3	5242.2	5041.8
64°	3894.7	3968.6	4967.9	7201.4	10879.9	13725.1	10086.2	6869.2	4949.5	3868.4	3728.6
65°	2795.1	2898.0	3863.1	6252.1	10447.5	13627.6	9935.9	6173.0	4002.8	2953.3	2811.0
67.5°	1028.4	1070.6	1516.2	3127.4	7502.0	11613.0	7873.8	3393.7	1758.8	1252.5	1126.0
70°	477.3	479.9	561.7	1033.7	3280.3	7765.7	3757.6	1273.6	661.9	524.7	487.8
72.5°	350.7	358.6	392.9	477.3	965.1	3288.2	1234.1	522.1	387.6	342.8	334.9
75°	284.8	290.1	300.6	345.4	445.6	880.7	501.0	361.3	308.5	276.9	266.3
77.5°	218.9	218.9	242.6	263.7	295.3	411.4	332.3	287.4	250.5	218.9	211.0
80°	158.2	160.9	189.9	205.7	200.4	271.6	240.0	237.3	205.7	171.4	158.2
82.5°	92.3	100.2	137.1	147.7	142.4	160.9	174.0	184.6	160.9	118.7	108.1
85°	52.7	55.4	79.1	81.7	81.7	76.5	100.2	110.8	108.1	73.8	65.9
87.5°	15.8	15.8	21.1	21.1	23.7	26.4	39.6	47.5	52.7	36.9	34.3
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°	2692.3	2692.3	2692.3	2692.3	2692.3	2692.3	2692.3	2692.3	2692.3	2692.3	2692.3
2.5°	2734.5	2694.9	2697.6	2708.1	2673.8	2687.0	2726.6	2697.6	2689.7	2673.8	2665.9
5°	2721.3	2763.5	2747.7	2752.9	2745.0	2708.1	2702.8	2726.6	2739.8	2716.0	2763.5
7.5°	2813.6	2795.1	2774.0	2781.9	2763.5	2795.1	2816.2	2768.8	2792.5	2779.3	2752.9
10°	2866.3	2832.0	2847.9	2842.6	2829.4	2861.1	2840.0	2834.7	2813.6	2784.6	2826.8
12.5°	2884.8	2924.3	2950.7	2905.9	2913.8	2898.0	2884.8	2884.8	2861.1	2853.1	2861.1
15°	2966.5	3000.8	2990.3	3024.5	2979.7	2995.5	3011.4	2971.8	2992.9	2934.9	2979.7
17.5°	3116.8	3087.8	3124.7	3079.9	3095.7	3127.4	3077.3	3077.3	3093.1	3061.5	3021.9
20°	3211.8	3198.6	3185.4	3188.0	3161.7	3190.7	3174.8	3166.9	3143.2	3153.7	3174.8
22.5°	3301.4	3283.0	3288.2	3296.1	3314.6	3301.4	3293.5	3301.4	3243.4	3296.1	3222.3
25°	3412.2	3462.3	3446.4	3480.7	3428.0	3462.3	3459.6	3409.5	3441.2	3420.1	3404.3
27.5°	3596.8	3570.4	3594.1	3551.9	3588.8	3591.5	3559.8	3644.2	3607.3	3602.0	3591.5
30°	3834.1	3815.6	3799.8	3776.1	3805.1	3781.3	3807.7	3815.6	3781.3	3755.0	3704.9
32.5°	3968.6	4018.7	4037.1	3979.1	3981.7	3994.9	3971.2	3947.5	3968.6	3976.5	3968.6
35°	4158.4	4205.9	4216.4	4171.6	4147.9	4213.8	4166.3	4245.4	4176.9	4179.5	4108.3
37.5°	4379.9	4393.1	4482.8	4432.7	4411.6	4379.9	4466.9	4456.4	4472.2	4345.6	4408.9
40°	4630.4	4677.9	4728.0	4601.4	4598.8	4627.8	4622.5	4683.2	4654.2	4635.7	4590.9
42.5°	4904.7	5004.9	5012.8	4928.4	4875.7	4870.4	4896.7	5031.2	5033.9	4912.6	4859.8
45°	5268.6	5379.3	5350.3	5186.8	5128.8	5120.9	5250.1	5308.1	5358.2	5310.7	5265.9
47.5°	5722.1	5795.9	5774.8	5624.5	5437.3	5490.1	5616.6	5798.6	5745.8	5682.5	5629.8
50°	6207.3	6294.3	6249.5	6099.2	5919.9	5919.9	6075.4	6307.5	6291.7	6167.7	6120.3
52.5°	6745.2	6871.8	6974.6	6761.0	6610.7	6634.5	6879.7	6964.1	6924.5	6837.5	6798.0
55°	7146.0	7388.6	7599.6	7610.1	7618.0	7615.4	7678.7	7763.1	7480.9	7341.2	7198.8
57.5°	7048.5	7507.3	8229.8	8720.3	8865.3	8941.8	8920.7	8530.4	7863.3	7404.5	7451.9
60°	6352.3	7101.2	8266.7	9841.0	10895.7	10790.3	10405.3	8862.7	7652.3	6877.1	6779.5
62.5°	5068.1	5970.0	7647.1	10157.4	13063.3	13031.6	11017.0	8095.3	6376.1	5395.1	5334.5
64°	3818.3	4767.5	6821.7	10075.6	13822.7	13854.3	10861.4	7151.3	4989.0	3818.3	3726.0
65°	2921.7	3802.4	6012.2	9906.9	13659.2	13677.7	10429.0	6175.7	3791.9	2710.7	2610.5
67.5°	1162.9	1619.1	3261.9	7512.6	11729.0	11678.9	7441.4	2987.6	1450.3	944.0	925.6
70°	495.7	617.0	1144.4	3559.8	7852.7	7707.7	3203.9	970.4	537.9	450.9	448.3
72.5°	340.2	377.1	490.5	1099.6	3264.5	3188.0	912.4	450.9	366.5	337.5	337.5
75°	274.2	300.6	356.0	461.5	864.9	833.3	429.8	332.3	292.7	271.6	269.0
77.5°	213.6	240.0	279.5	319.1	395.5	392.9	287.4	250.5	226.8	211.0	205.7
80°	168.8	195.1	221.5	226.8	258.4	253.1	195.1	197.8	184.6	152.9	150.3
82.5°	116.0	158.2	176.7	160.9	152.9	152.9	139.8	139.8	129.2	94.9	87.0
85°	71.2	105.5	110.8	94.9	71.2	71.2	76.5	73.8	68.6	50.1	47.5
87.5°	36.9	50.1	44.8	36.9	23.7	23.7	21.1	15.8	15.8	13.2	13.2
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)