

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: P478803

Luminaire Tested: **IFLD-M-SA4D-722-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478803
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-722-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

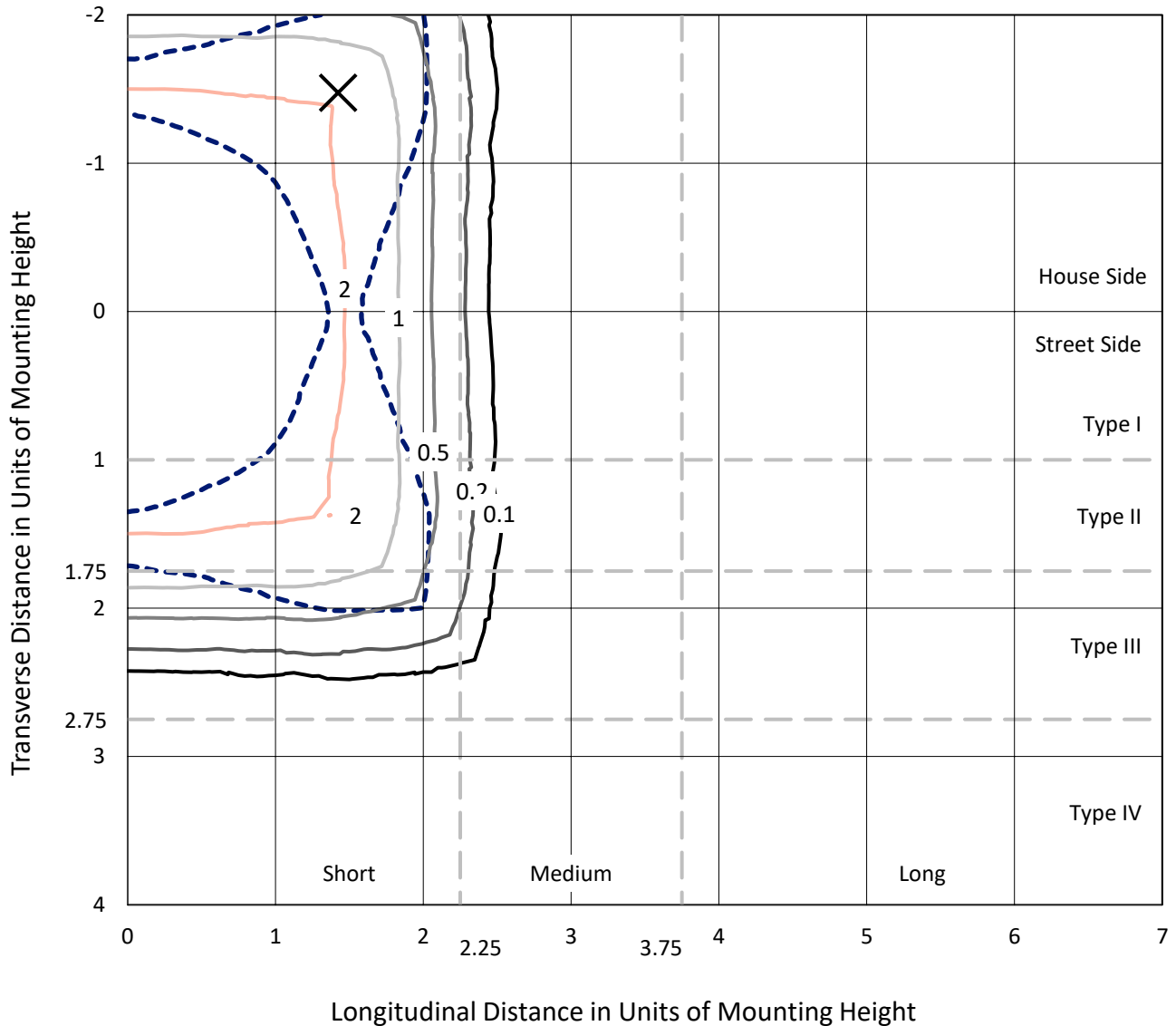
Lumens per Lamp: N/A
Luminaire Lumens: 22983.2 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 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

REPORT NUMBER: P478803
 CATALOG NUMBER: IFLD-M-SA4D-722-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

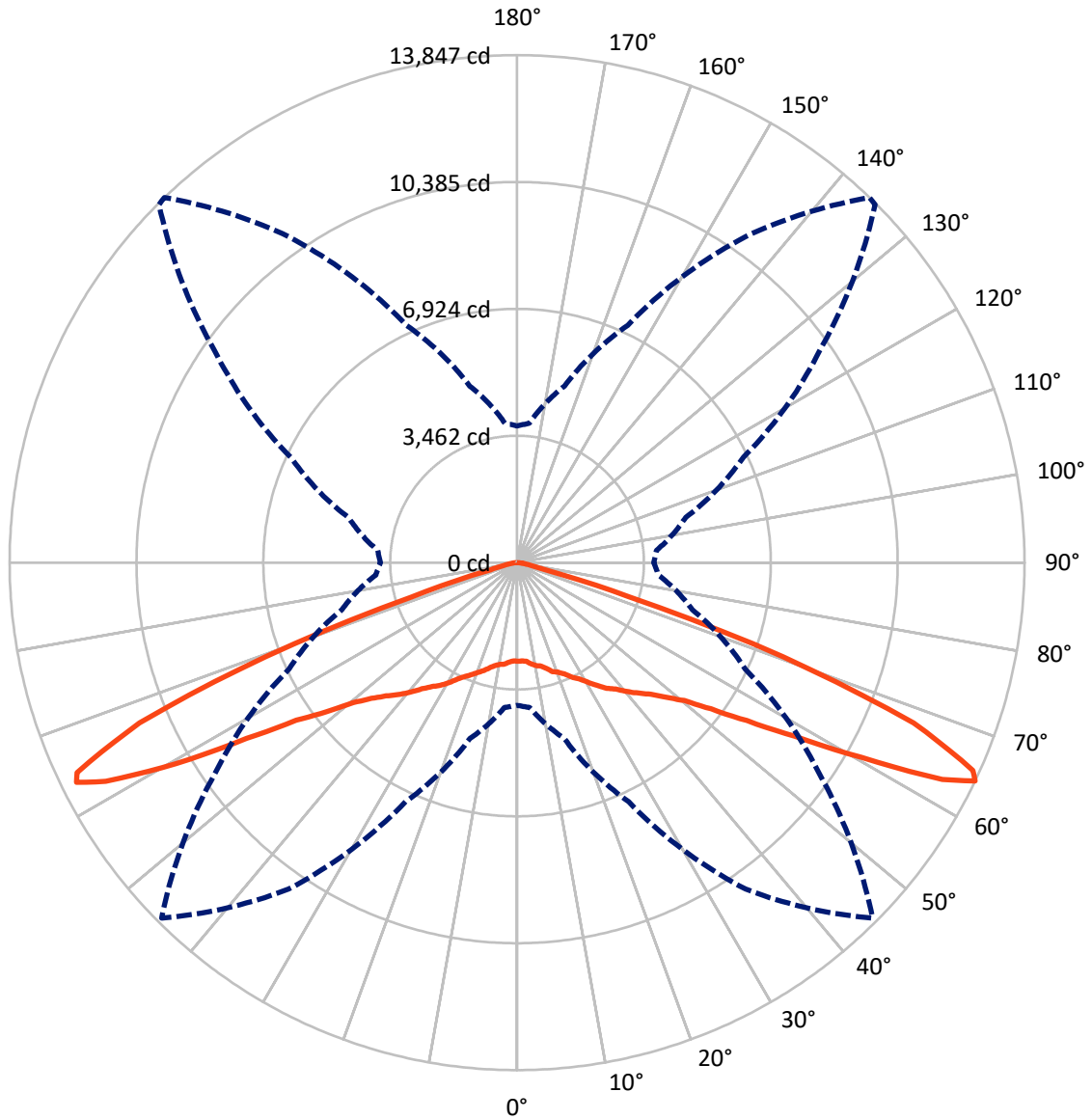
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - N/A

REPORT NUMBER: P478803
CATALOG NUMBER: IFLD-M-SA4D-722-U-5NQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P478803
 CATALOG NUMBER: IFLD-M-SA4D-722-U-5NQ

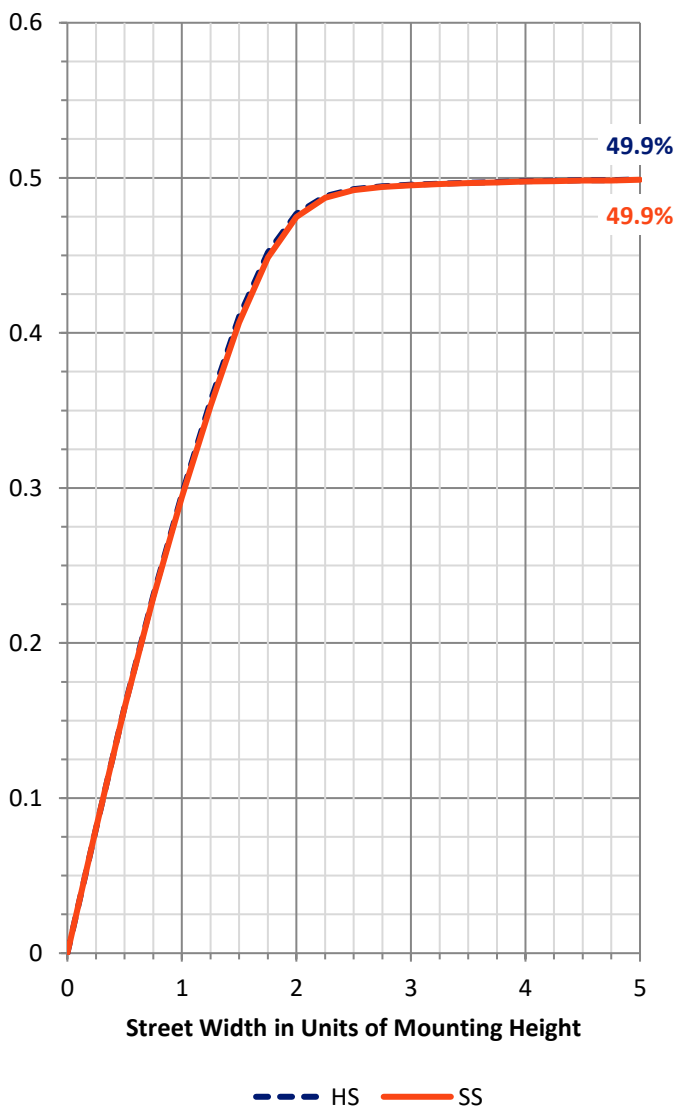
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11502.6	0.0	11502.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11480.6	0.0	11480.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	22983.2	0.0	22983.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.4	1.2
10°-20°	852.2	3.7
20°-30°	1601.5	7.0
30°-40°	2641.2	11.5
40°-50°	4130.7	18.0
50°-60°	6674.2	29.0
60°-70°	6009.7	26.1
70°-80°	711.9	3.1
80°-90°	97.4	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°	22983.2	100.0
0°-180°	22983.2	100.0

Coefficient of Utilization



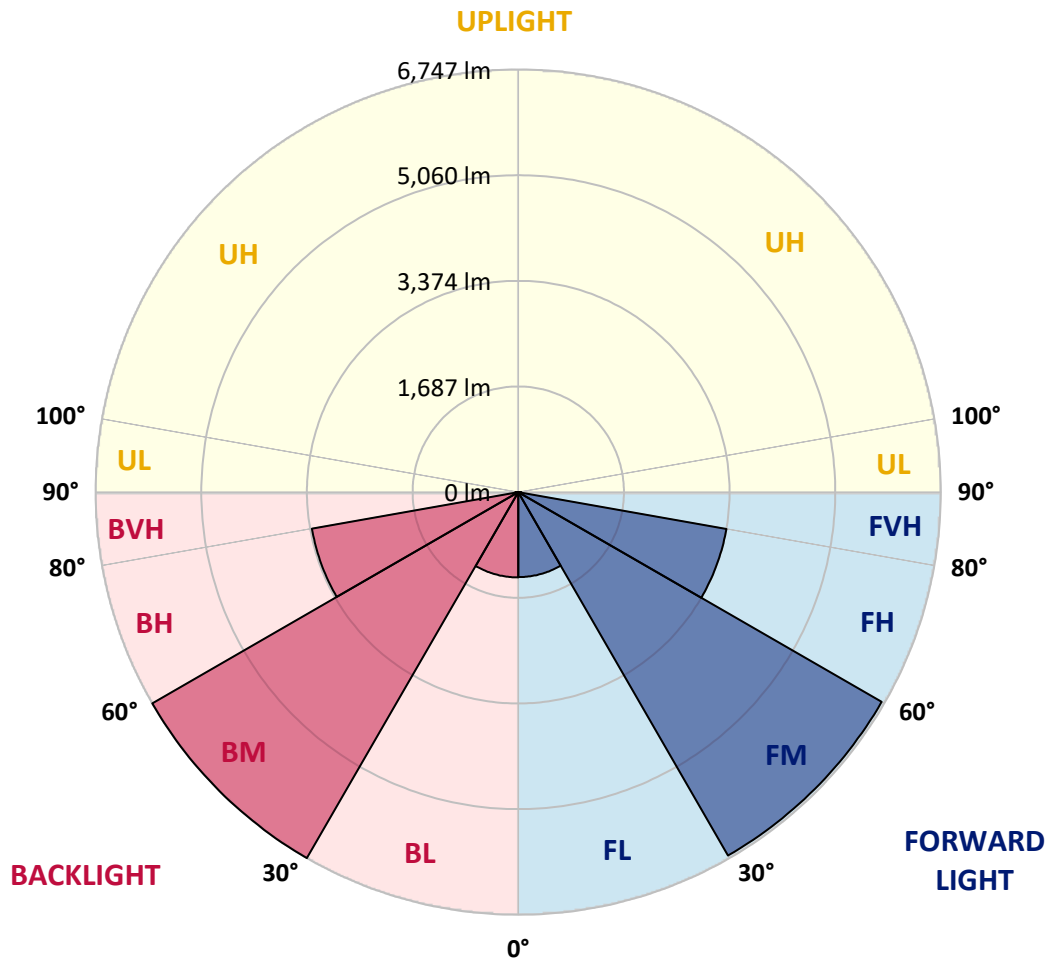
REPORT NUMBER: P478803
 CATALOG NUMBER: IFLD-M-SA4D-722-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1356.4	5.9			
FM (30°-60°)	6698.9	29.1			
FH (60°-80°)	3375.3	14.7			G2/5000
FVH (80°-90°)	50.0	0.2			G1/100
BL (0°-30°)	1361.7	5.9	B3/2500		
BM (30°-60°)	6747.2	29.4	B4/8500		
BH (60°-80°)	3346.2	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





REPORT NUMBER: P478803
 CATALOG NUMBER: IFLD-M-SA4D-722-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2690.9	2690.9	2690.9	2690.9	2690.9	2690.9	2690.9	2690.9	2690.9	2690.9	2690.9
2.5°	2659.2	2664.5	2711.9	2693.5	2709.3	2680.3	2701.4	2746.2	2693.5	2733.0	2746.2
5°	2688.2	2696.1	2696.1	2714.6	2725.1	2719.9	2733.0	2714.6	2764.7	2743.6	2775.2
7.5°	2793.6	2780.5	2759.4	2775.2	2777.8	2791.0	2804.2	2827.9	2820.0	2801.6	2833.2
10°	2812.1	2801.6	2833.2	2835.8	2822.6	2812.1	2825.3	2825.3	2849.0	2854.3	2854.3
12.5°	2843.7	2854.3	2851.6	2872.7	2875.3	2867.4	2888.5	2928.1	2917.5	2925.4	2907.0
15°	2965.0	2951.8	2949.1	2970.2	3004.5	2954.4	2991.3	2988.7	2978.1	2993.9	2951.8
17.5°	3070.4	3028.2	3046.7	3080.9	3067.7	3078.3	3125.7	3083.6	3094.1	3075.6	3062.5
20°	3162.6	3128.4	3131.0	3144.2	3144.2	3175.8	3194.2	3178.4	3167.9	3165.3	3170.5
22.5°	3265.4	3225.9	3228.5	3283.9	3302.3	3291.8	3278.6	3304.9	3310.2	3289.1	3312.8
25°	3341.8	3384.0	3397.2	3423.5	3384.0	3413.0	3402.5	3452.5	3484.2	3442.0	3471.0
27.5°	3542.1	3523.7	3557.9	3555.3	3586.9	3557.9	3576.4	3592.2	3605.4	3608.0	3594.8
30°	3721.3	3729.3	3695.0	3787.2	3713.4	3760.9	3792.5	3800.4	3816.2	3816.2	3776.7
32.5°	3911.1	3895.3	3950.6	3929.6	3916.4	3953.3	3919.0	4027.1	3963.8	4000.7	3955.9
35°	4124.6	4124.6	4145.7	4203.6	4124.6	4100.9	4164.1	4208.9	4208.9	4143.0	4158.8
37.5°	4364.4	4343.3	4369.7	4443.5	4382.9	4303.8	4419.8	4438.2	4425.0	4406.6	4375.0
40°	4533.1	4527.8	4580.5	4678.0	4591.1	4575.3	4596.3	4646.4	4662.2	4680.7	4638.5
42.5°	4817.7	4841.4	4994.3	4970.6	4899.4	4844.1	4838.8	5025.9	4981.1	4933.7	4910.0
45°	5239.4	5218.3	5297.4	5300.0	5207.8	5086.5	5112.9	5284.2	5360.6	5255.2	5294.8
47.5°	5574.1	5584.7	5640.0	5753.3	5539.9	5413.4	5510.9	5787.6	5763.9	5724.3	5761.2
50°	6022.2	6069.6	6243.5	6204.0	6014.2	5858.8	6072.2	6333.1	6362.1	6217.2	6190.8
52.5°	6641.5	6715.3	6810.2	6841.8	6659.9	6604.6	6617.8	6941.9	6870.8	6731.1	6641.5
55°	7184.4	7218.7	7392.6	7653.5	7640.4	7374.2	7527.0	7648.3	7358.4	7071.1	7094.8
57.5°	7416.3	7432.2	7917.1	8438.9	8749.9	8810.5	8636.6	8228.1	7537.6	6984.1	6949.9
60°	6839.2	6989.4	7574.5	8752.5	10173.1	10874.1	9717.1	8294.0	7118.5	6446.5	6396.4
62.5°	5466.1	5474.0	6343.7	8130.6	11058.6	12895.6	10130.9	7674.6	6001.1	5239.4	5039.1
64°	3892.7	3966.5	4965.3	7197.6	10874.1	13717.9	10080.8	6865.5	4946.9	3866.3	3726.6
65°	2793.6	2896.4	3861.0	6248.8	10441.9	13620.3	9930.6	6169.7	4000.7	2951.8	2809.5
67.5°	1027.9	1070.0	1515.4	3125.7	7498.0	11606.8	7869.7	3391.9	1757.9	1251.9	1125.4
70°	477.0	479.7	561.4	1033.1	3278.6	7761.6	3755.6	1273.0	661.5	524.5	487.6
72.5°	350.5	358.4	392.7	477.0	964.6	3286.5	1233.4	521.8	387.4	342.6	334.7
75°	284.6	289.9	300.4	345.3	445.4	880.3	500.7	361.1	308.4	276.7	266.2
77.5°	218.7	218.7	242.5	263.6	295.2	411.1	332.1	287.3	250.4	218.7	210.8
80°	158.1	160.8	189.8	205.6	200.3	271.5	239.8	237.2	205.6	171.3	158.1
82.5°	92.2	100.1	137.0	147.6	142.3	160.8	173.9	184.5	160.8	118.6	108.1
85°	52.7	55.3	79.1	81.7	81.7	76.4	100.1	110.7	108.1	73.8	65.9
87.5°	15.8	15.8	21.1	21.1	23.7	26.4	39.5	47.4	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



REPORT NUMBER: P478803
 CATALOG NUMBER: IFLD-M-SA4D-722-U-5NQ

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	2690.9	2690.9	2690.9	2690.9	2690.9	2690.9	2690.9	2690.9	2690.9	2690.9	2690.9
2.5°	2733.0	2693.5	2696.1	2706.7	2672.4	2685.6	2725.1	2696.1	2688.2	2672.4	2664.5
5°	2719.9	2762.0	2746.2	2751.5	2743.6	2706.7	2701.4	2725.1	2738.3	2714.6	2762.0
7.5°	2812.1	2793.6	2772.6	2780.5	2762.0	2793.6	2814.7	2767.3	2791.0	2777.8	2751.5
10°	2864.8	2830.5	2846.4	2841.1	2827.9	2859.5	2838.5	2833.2	2812.1	2783.1	2825.3
12.5°	2883.3	2922.8	2949.1	2904.3	2912.2	2896.4	2883.3	2883.3	2859.5	2851.6	2859.5
15°	2965.0	2999.2	2988.7	3022.9	2978.1	2993.9	3009.8	2970.2	2991.3	2933.3	2978.1
17.5°	3115.2	3086.2	3123.1	3078.3	3094.1	3125.7	3075.6	3075.6	3091.5	3059.8	3020.3
20°	3210.1	3196.9	3183.7	3186.3	3160.0	3189.0	3173.2	3165.3	3141.5	3152.1	3173.2
22.5°	3299.7	3281.2	3286.5	3294.4	3312.8	3299.7	3291.8	3299.7	3241.7	3294.4	3220.6
25°	3410.4	3460.4	3444.6	3478.9	3426.2	3460.4	3457.8	3407.7	3439.3	3418.3	3402.5
27.5°	3594.8	3568.5	3592.2	3550.0	3586.9	3589.6	3557.9	3642.3	3605.4	3600.1	3589.6
30°	3832.0	3813.6	3797.8	3774.1	3803.0	3779.3	3805.7	3813.6	3779.3	3753.0	3702.9
32.5°	3966.5	4016.5	4035.0	3977.0	3979.6	3992.8	3969.1	3945.4	3966.5	3974.4	3966.5
35°	4156.2	4203.6	4214.2	4169.4	4145.7	4211.6	4164.1	4243.2	4174.7	4177.3	4106.1
37.5°	4377.6	4390.8	4480.4	4430.3	4409.2	4377.6	4464.6	4454.0	4469.8	4343.3	4406.6
40°	4628.0	4675.4	4725.5	4599.0	4596.3	4625.3	4620.1	4680.7	4651.7	4633.2	4588.4
42.5°	4902.1	5002.2	5010.1	4925.8	4873.1	4867.8	4894.2	5028.6	5031.2	4910.0	4857.3
45°	5265.8	5376.5	5347.5	5184.1	5126.1	5118.2	5247.3	5305.3	5355.4	5307.9	5263.1
47.5°	5719.1	5792.9	5771.8	5621.6	5434.4	5487.1	5613.6	5795.5	5742.8	5679.5	5626.8
50°	6204.0	6291.0	6246.2	6095.9	5916.7	5916.7	6072.2	6304.2	6288.3	6164.5	6117.0
52.5°	6741.7	6868.2	6970.9	6757.5	6607.2	6631.0	6876.1	6960.4	6920.9	6833.9	6794.4
55°	7142.2	7384.7	7595.6	7606.1	7614.0	7611.4	7674.6	7759.0	7477.0	7337.3	7195.0
57.5°	7044.7	7503.3	8225.4	8715.7	8860.6	8937.0	8916.0	8525.9	7859.1	7400.5	7448.0
60°	6349.0	7097.4	8262.3	9835.7	10890.0	10784.5	10399.7	8858.0	7648.3	6873.4	6775.9
62.5°	5065.5	5966.8	7643.0	10152.0	13056.3	13024.7	11011.2	8091.0	6372.7	5392.3	5331.6
64°	3816.2	4765.0	6818.1	10070.3	13815.4	13847.0	10855.7	7147.5	4986.4	3816.2	3724.0
65°	2920.2	3800.4	6009.0	9901.6	13652.0	13670.4	10423.5	6172.4	3789.9	2709.3	2609.2
67.5°	1162.3	1618.2	3260.1	7508.6	11722.8	11672.7	7437.4	2986.0	1449.5	943.5	925.1
70°	495.5	616.7	1143.8	3557.9	7848.6	7703.6	3202.2	969.9	537.6	450.7	448.0
72.5°	340.0	376.9	490.2	1099.0	3262.8	3186.3	911.9	450.7	366.3	337.3	337.3
75°	274.1	300.4	355.8	461.2	864.4	832.8	429.6	332.1	292.5	271.5	268.8
77.5°	213.5	239.8	279.4	318.9	395.3	392.7	287.3	250.4	226.7	210.8	205.6
80°	168.7	195.0	221.4	226.7	258.3	253.0	195.0	197.7	184.5	152.9	150.2
82.5°	116.0	158.1	176.6	160.8	152.9	152.9	139.7	139.7	129.1	94.9	87.0
85°	71.2	105.4	110.7	94.9	71.2	71.2	76.4	73.8	68.5	50.1	47.4
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)