

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: P478900

Luminaire Tested: **IFLD-S-SA3D-735-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478900
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-735-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

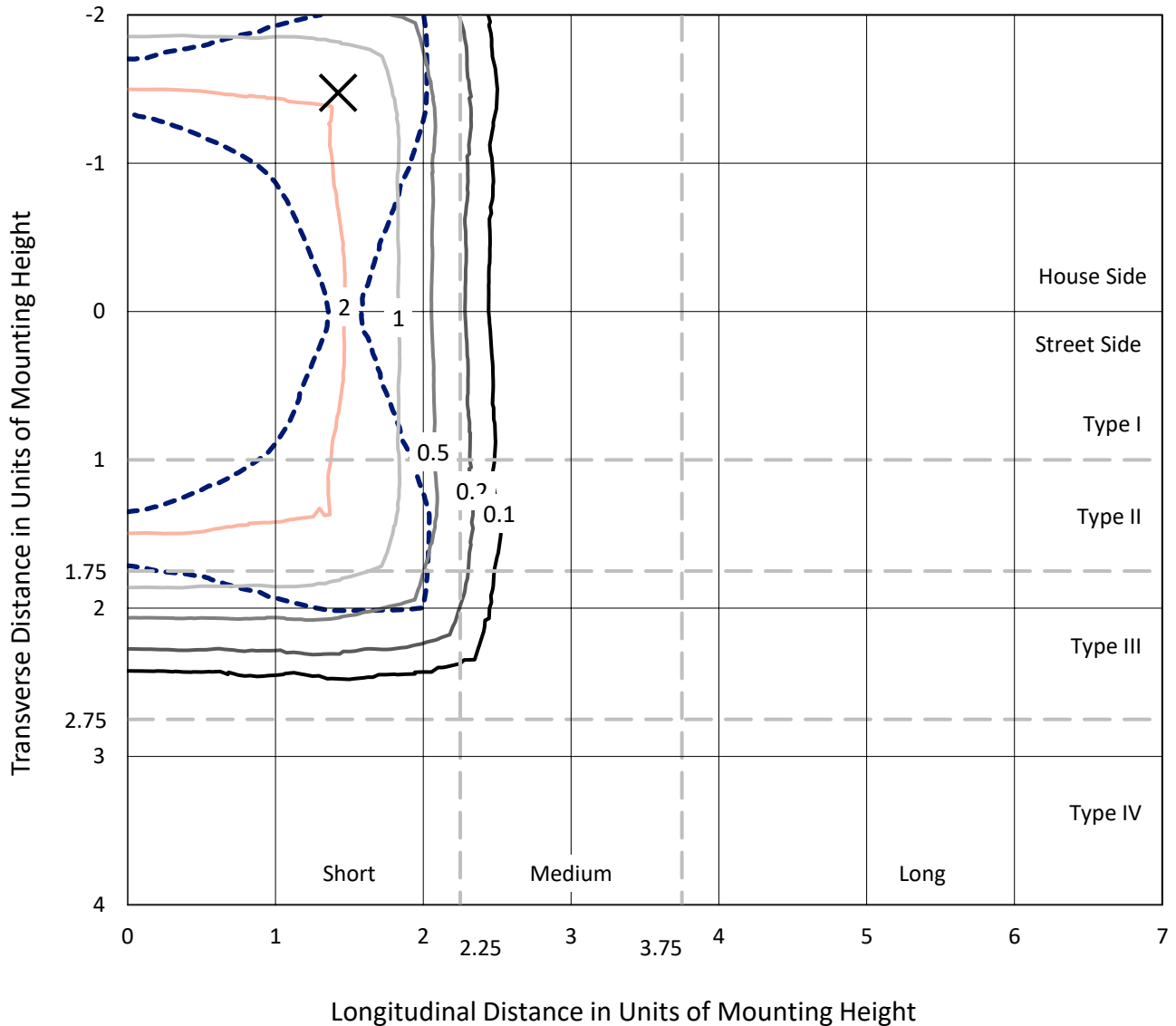
Lumens per Lamp: N/A
Luminaire Lumens: 22927.3 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 184.1
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

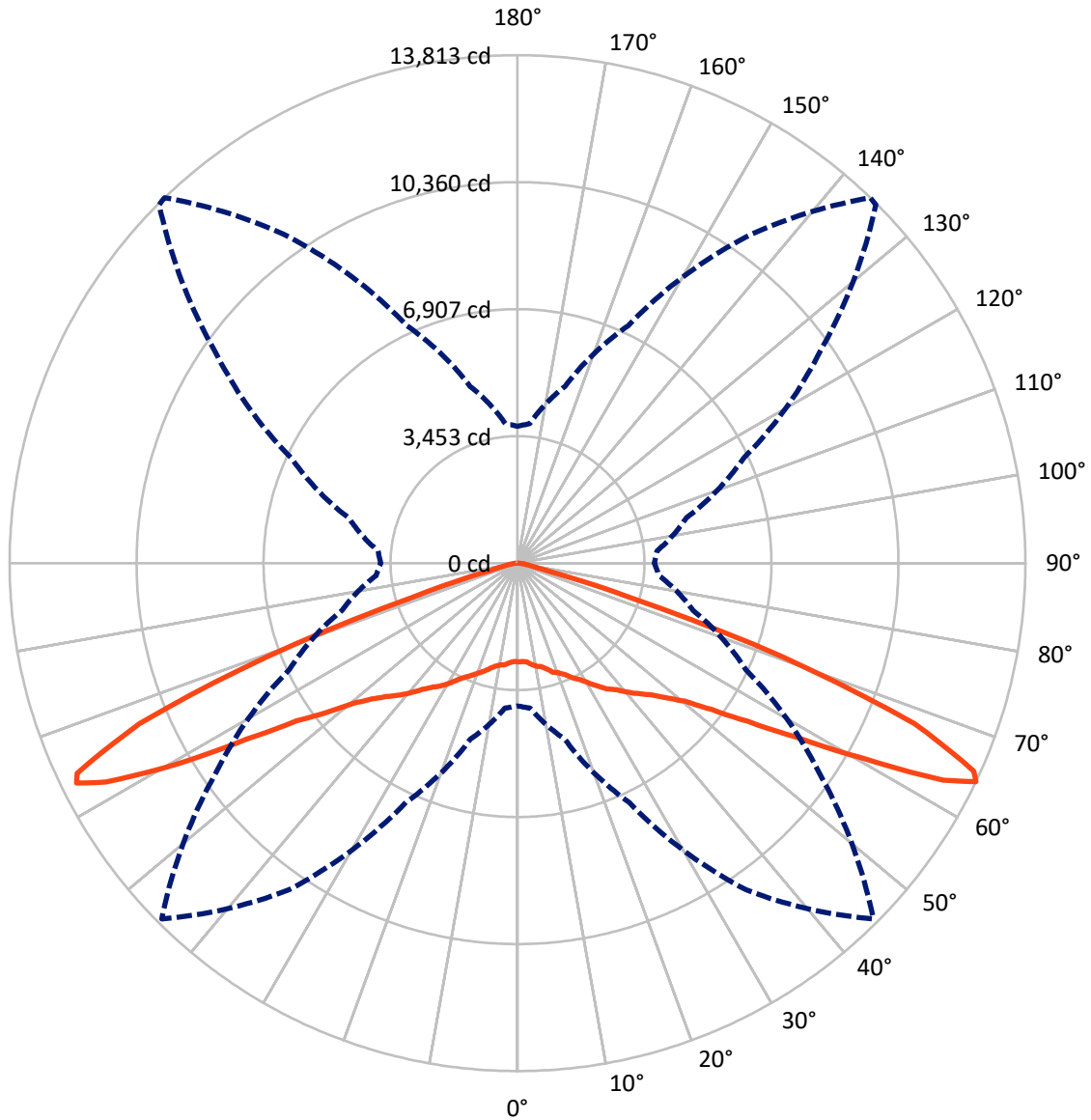
✕ Max cd
 - - - 1/2 Max cd



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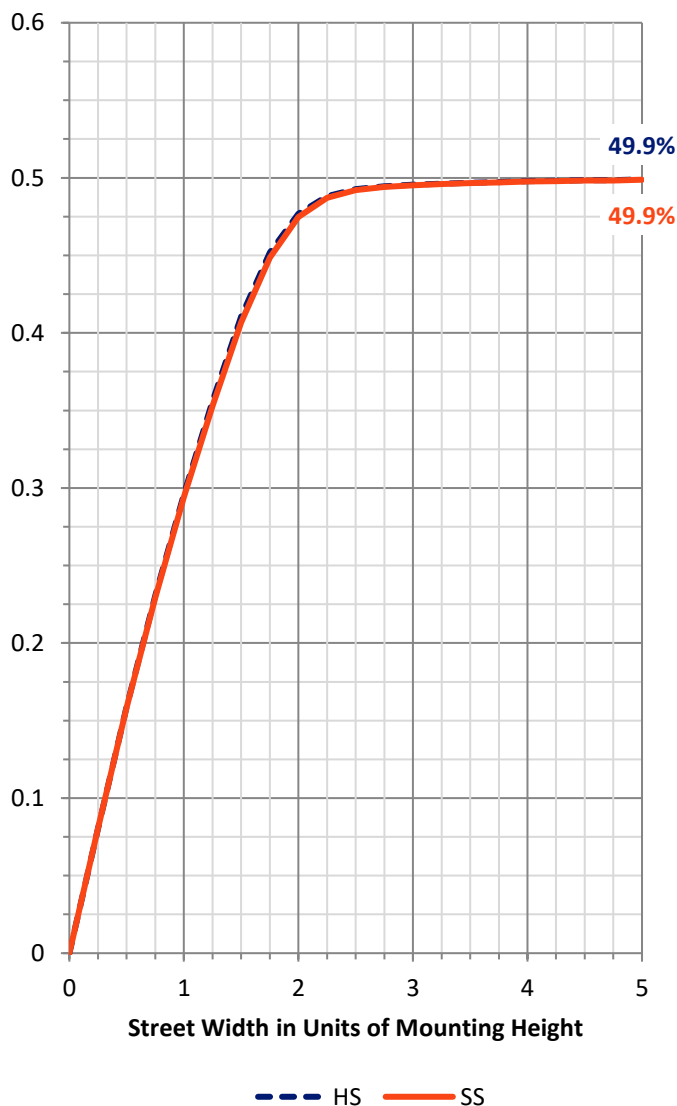
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11474.6	0.0	11474.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11452.7	0.0	11452.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	22927.3	0.0	22927.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.8	1.2
10°-20°	850.1	3.7
20°-30°	1597.6	7.0
30°-40°	2634.8	11.5
40°-50°	4120.6	18.0
50°-60°	6658.0	29.0
60°-70°	5995.1	26.1
70°-80°	710.1	3.1
80°-90°	97.2	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°	22927.3	100.0
0°-180°	22927.3	100.0

Coefficient of Utilization



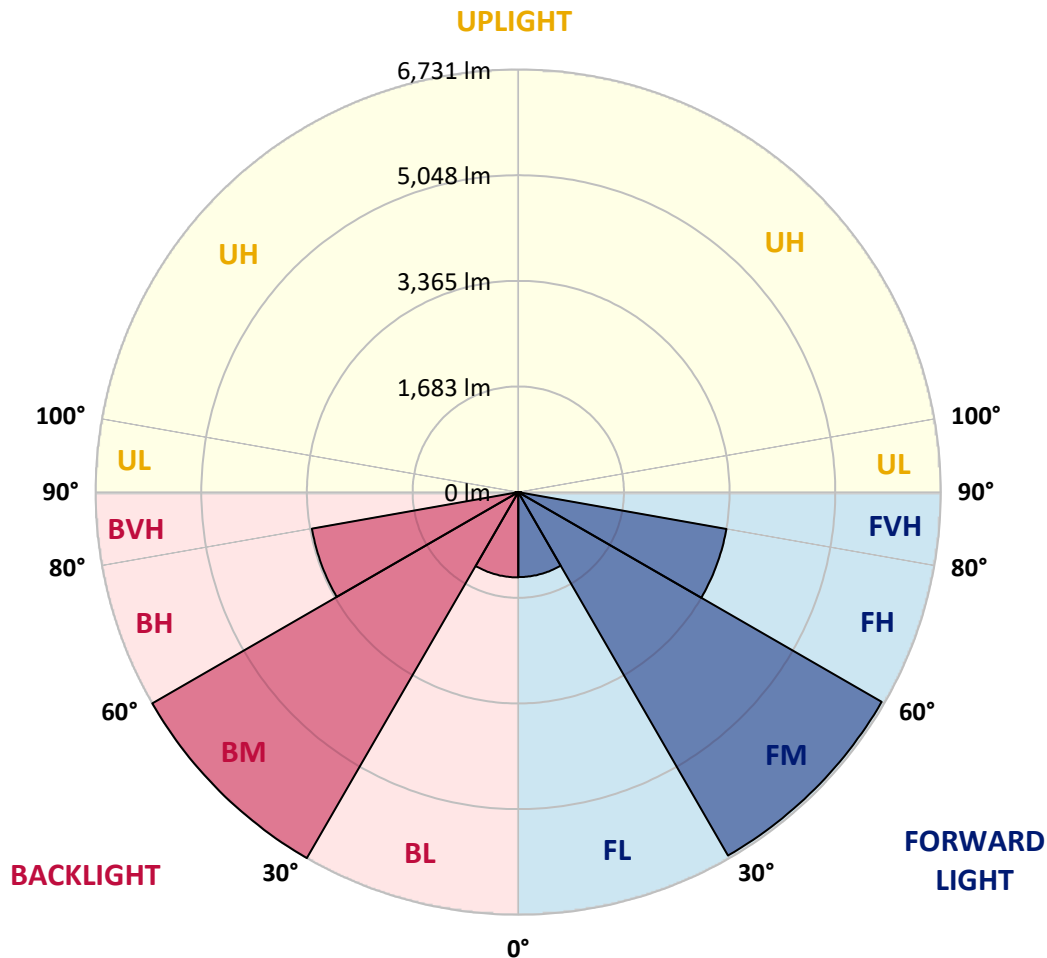
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1353.1	5.9			
FM (30°-60°)	6682.6	29.1			
FH (60°-80°)	3367.1	14.7			G2/5000
FVH (80°-90°)	49.9	0.2			G1/100
BL (0°-30°)	1358.4	5.9	B3/2500		
BM (30°-60°)	6730.8	29.4	B4/8500		
BH (60°-80°)	3338.1	14.6	B4/5000		G2/5000
BVH (80°-90°)	47.3	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°	2684.3	2684.3	2684.3	2684.3	2684.3	2684.3	2684.3	2684.3	2684.3	2684.3	2684.3
2.5°	2652.8	2658.0	2705.4	2686.9	2702.7	2673.8	2694.8	2739.5	2686.9	2726.4	2739.5
5°	2681.7	2689.6	2689.6	2708.0	2718.5	2713.2	2726.4	2708.0	2757.9	2736.9	2768.4
7.5°	2786.9	2773.7	2752.7	2768.4	2771.1	2784.2	2797.4	2821.0	2813.1	2794.7	2826.3
10°	2805.3	2794.7	2826.3	2828.9	2815.8	2805.3	2818.4	2818.4	2842.1	2847.3	2847.3
12.5°	2836.8	2847.3	2844.7	2865.7	2868.4	2860.5	2881.5	2920.9	2910.4	2918.3	2899.9
15°	2957.7	2944.6	2942.0	2963.0	2997.2	2947.2	2984.0	2981.4	2970.9	2986.7	2944.6
17.5°	3062.9	3020.8	3039.2	3073.4	3060.3	3070.8	3118.1	3076.1	3086.6	3068.2	3055.0
20°	3154.9	3120.8	3123.4	3136.5	3136.5	3168.1	3186.5	3170.7	3160.2	3157.6	3162.8
22.5°	3257.5	3218.0	3220.7	3275.9	3294.3	3283.8	3270.6	3296.9	3302.2	3281.1	3304.8
25°	3333.7	3375.8	3388.9	3415.2	3375.8	3404.7	3394.2	3444.1	3475.7	3433.6	3462.5
27.5°	3533.5	3515.1	3549.3	3546.7	3578.2	3549.3	3567.7	3583.5	3596.6	3599.2	3586.1
30°	3712.3	3720.2	3686.0	3778.0	3704.4	3751.7	3783.3	3791.2	3806.9	3806.9	3767.5
32.5°	3901.6	3885.8	3941.0	3920.0	3906.9	3943.7	3909.5	4017.3	3954.2	3991.0	3946.3
35°	4114.6	4114.6	4135.6	4193.4	4114.6	4090.9	4154.0	4198.7	4198.7	4133.0	4148.7
37.5°	4353.8	4332.8	4359.1	4432.7	4372.2	4293.3	4409.0	4427.4	4414.3	4395.9	4364.3
40°	4522.1	4516.8	4569.4	4666.7	4579.9	4564.1	4585.2	4635.1	4650.9	4669.3	4627.2
42.5°	4806.0	4829.7	4982.2	4958.5	4887.5	4832.3	4827.0	5013.7	4969.0	4921.7	4898.0
45°	5226.7	5205.6	5284.5	5287.1	5195.1	5074.2	5100.5	5271.4	5347.6	5242.4	5281.9
47.5°	5560.6	5571.1	5626.3	5739.3	5526.4	5400.2	5497.5	5773.5	5749.9	5710.4	5747.2
50°	6007.5	6054.8	6228.4	6188.9	5999.6	5844.5	6057.5	6317.7	6346.7	6202.1	6175.8
52.5°	6625.3	6699.0	6793.6	6825.2	6643.8	6588.5	6601.7	6925.1	6854.1	6714.7	6625.3
55°	7166.9	7201.1	7374.6	7634.9	7621.8	7356.2	7508.7	7629.7	7340.5	7053.9	7077.6
57.5°	7398.3	7414.1	7897.8	8418.4	8728.6	8789.1	8615.6	8208.1	7519.2	6967.1	6933.0
60°	6822.5	6972.4	7556.1	8731.3	10148.4	10847.7	9693.5	8273.8	7101.2	6430.8	6380.8
62.5°	5452.8	5460.7	6328.3	8110.8	11031.7	12864.2	10106.3	7656.0	5986.5	5226.7	5026.9
64°	3883.2	3956.8	4953.2	7180.1	10847.7	13684.5	10056.3	6848.8	4934.8	3856.9	3717.6
65°	2786.9	2889.4	3851.6	6233.6	10416.5	13587.2	9906.5	6154.7	3991.0	2944.6	2802.6
67.5°	1025.4	1067.4	1511.7	3118.1	7479.8	11578.6	7850.5	3383.7	1753.6	1248.8	1122.6
70°	475.9	478.5	560.0	1030.6	3270.6	7742.7	3746.5	1269.9	659.9	523.2	486.4
72.5°	349.7	357.6	391.7	475.9	962.3	3278.5	1230.4	520.6	386.5	341.8	333.9
75°	283.9	289.2	299.7	344.4	444.3	878.1	499.5	360.2	307.6	276.1	265.5
77.5°	218.2	218.2	241.9	262.9	294.5	410.1	331.3	286.6	249.8	218.2	210.3
80°	157.7	160.4	189.3	205.1	199.8	270.8	239.2	236.6	205.1	170.9	157.7
82.5°	92.0	99.9	136.7	147.2	142.0	160.4	173.5	184.0	160.4	118.3	107.8
85°	52.6	55.2	78.9	81.5	81.5	76.2	99.9	110.4	107.8	73.6	65.7
87.5°	15.8	15.8	21.0	21.0	23.7	26.3	39.4	47.3	52.6	36.8	34.2
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°	2684.3	2684.3	2684.3	2684.3	2684.3	2684.3	2684.3	2684.3	2684.3	2684.3	2684.3
2.5°	2726.4	2686.9	2689.6	2700.1	2665.9	2679.1	2718.5	2689.6	2681.7	2665.9	2658.0
5°	2713.2	2755.3	2739.5	2744.8	2736.9	2700.1	2694.8	2718.5	2731.6	2708.0	2755.3
7.5°	2805.3	2786.9	2765.8	2773.7	2755.3	2786.9	2807.9	2760.6	2784.2	2771.1	2744.8
10°	2857.8	2823.7	2839.4	2834.2	2821.0	2852.6	2831.5	2826.3	2805.3	2776.3	2818.4
12.5°	2876.2	2915.7	2942.0	2897.3	2905.2	2889.4	2876.2	2876.2	2852.6	2844.7	2852.6
15°	2957.7	2991.9	2981.4	3015.6	2970.9	2986.7	3002.4	2963.0	2984.0	2926.2	2970.9
17.5°	3107.6	3078.7	3115.5	3070.8	3086.6	3118.1	3068.2	3068.2	3083.9	3052.4	3013.0
20°	3202.3	3189.1	3176.0	3178.6	3152.3	3181.2	3165.4	3157.6	3133.9	3144.4	3165.4
22.5°	3291.6	3273.2	3278.5	3286.4	3304.8	3291.6	3283.8	3291.6	3233.8	3286.4	3212.8
25°	3402.1	3452.0	3436.2	3470.4	3417.8	3452.0	3449.4	3399.4	3431.0	3410.0	3394.2
27.5°	3586.1	3559.8	3583.5	3541.4	3578.2	3580.8	3549.3	3633.4	3596.6	3591.4	3580.8
30°	3822.7	3804.3	3788.5	3764.9	3793.8	3770.1	3796.4	3804.3	3770.1	3743.8	3693.9
32.5°	3956.8	4006.8	4025.2	3967.3	3970.0	3983.1	3959.4	3935.8	3956.8	3964.7	3956.8
35°	4146.1	4193.4	4203.9	4159.2	4135.6	4201.3	4154.0	4232.9	4164.5	4167.1	4096.1
37.5°	4366.9	4380.1	4469.5	4419.5	4398.5	4366.9	4453.7	4443.2	4459.0	4332.8	4395.9
40°	4616.7	4664.0	4714.0	4587.8	4585.2	4614.1	4608.8	4669.3	4640.4	4622.0	4577.3
42.5°	4890.1	4990.0	4997.9	4913.8	4861.2	4856.0	4882.3	5016.3	5019.0	4898.0	4845.4
45°	5253.0	5363.4	5334.5	5171.5	5113.6	5105.7	5234.6	5292.4	5342.3	5295.0	5250.3
47.5°	5705.2	5778.8	5757.7	5607.9	5421.2	5473.8	5600.0	5781.4	5728.8	5665.7	5613.1
50°	6188.9	6275.7	6231.0	6081.1	5902.3	5902.3	6057.5	6288.8	6273.0	6149.5	6102.2
52.5°	6725.3	6851.5	6954.0	6741.0	6591.2	6614.8	6859.3	6943.5	6904.0	6817.3	6777.8
55°	7124.9	7366.8	7577.1	7587.6	7595.5	7592.9	7656.0	7740.1	7458.8	7319.4	7177.5
57.5°	7027.6	7485.1	8205.4	8694.5	8839.1	8915.3	8894.3	8505.2	7840.0	7382.5	7429.9
60°	6333.5	7080.2	8242.3	9811.8	10863.5	10758.3	10374.5	8836.4	7629.7	6856.7	6759.4
62.5°	5053.1	5952.3	7624.4	10127.3	13024.6	12993.0	10984.4	8071.4	6357.2	5379.2	5318.7
64°	3806.9	4753.4	6801.5	10045.8	13781.8	13813.3	10829.3	7130.1	4974.3	3806.9	3714.9
65°	2913.1	3791.2	5994.4	9877.6	13618.8	13637.2	10398.1	6157.4	3780.7	2702.7	2602.8
67.5°	1159.4	1614.3	3252.2	7490.3	11694.3	11644.3	7419.3	2978.8	1446.0	941.2	922.8
70°	494.3	615.2	1141.0	3549.3	7829.5	7684.9	3194.4	967.5	536.3	449.6	446.9
72.5°	339.2	376.0	489.0	1096.3	3254.8	3178.6	909.7	449.6	365.4	336.5	336.5
75°	273.4	299.7	354.9	460.1	862.3	830.8	428.5	331.3	291.8	270.8	268.2
77.5°	213.0	239.2	278.7	318.1	394.4	391.7	286.6	249.8	226.1	210.3	205.1
80°	168.3	194.6	220.8	226.1	257.7	252.4	194.6	197.2	184.0	152.5	149.9
82.5°	115.7	157.7	176.2	160.4	152.5	152.5	139.3	139.3	128.8	94.6	86.8
85°	71.0	105.2	110.4	94.6	71.0	71.0	76.2	73.6	68.4	50.0	47.3
87.5°	36.8	50.0	44.7	36.8	23.7	23.7	21.0	15.8	15.8	13.1	13.1
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)