

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: P479200

Luminaire Tested: **IFLD-L-SA8A-722-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479200
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-722-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

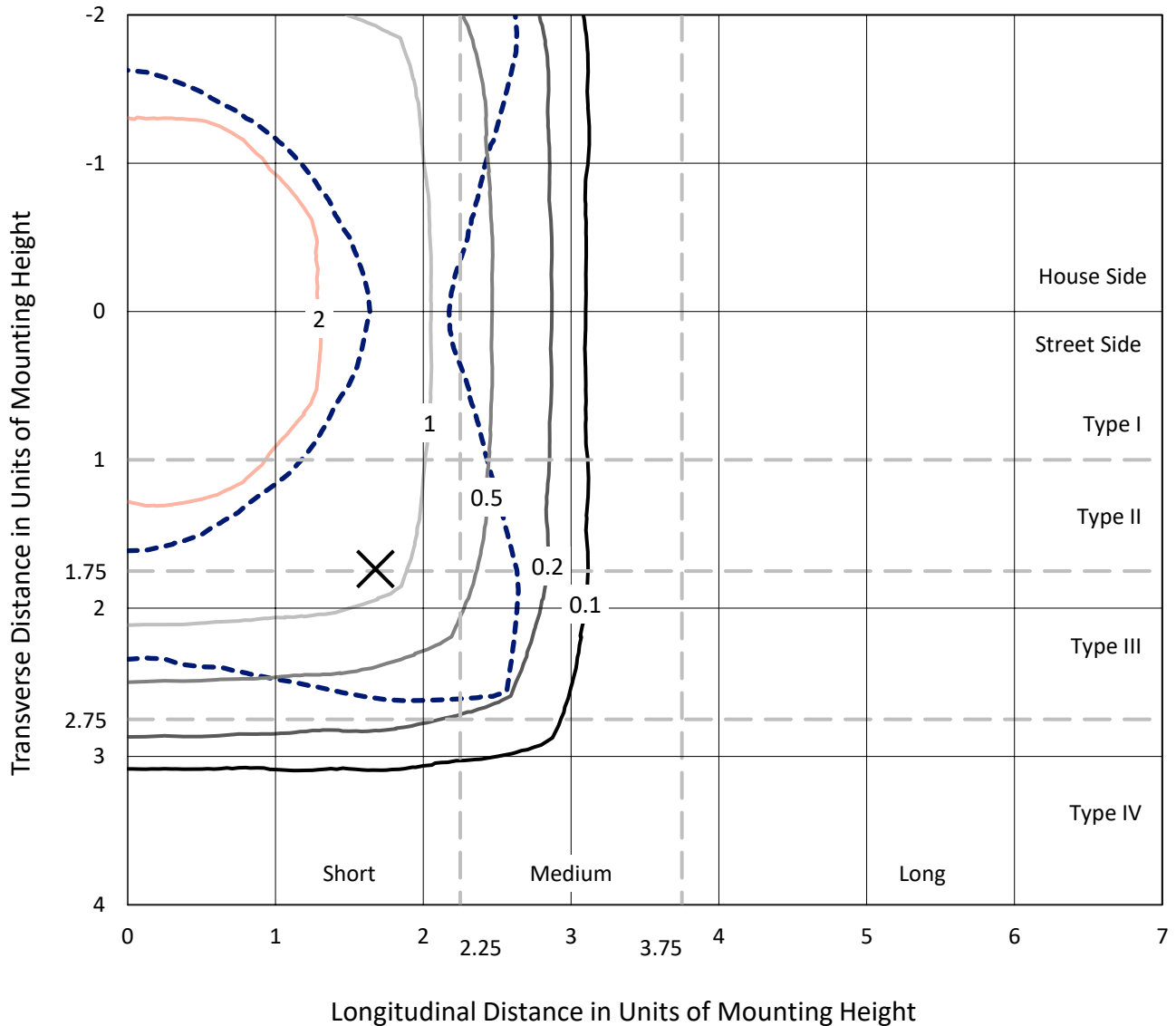
Lumens per Lamp: N/A
Luminaire Lumens: 25470.6 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 247.8
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

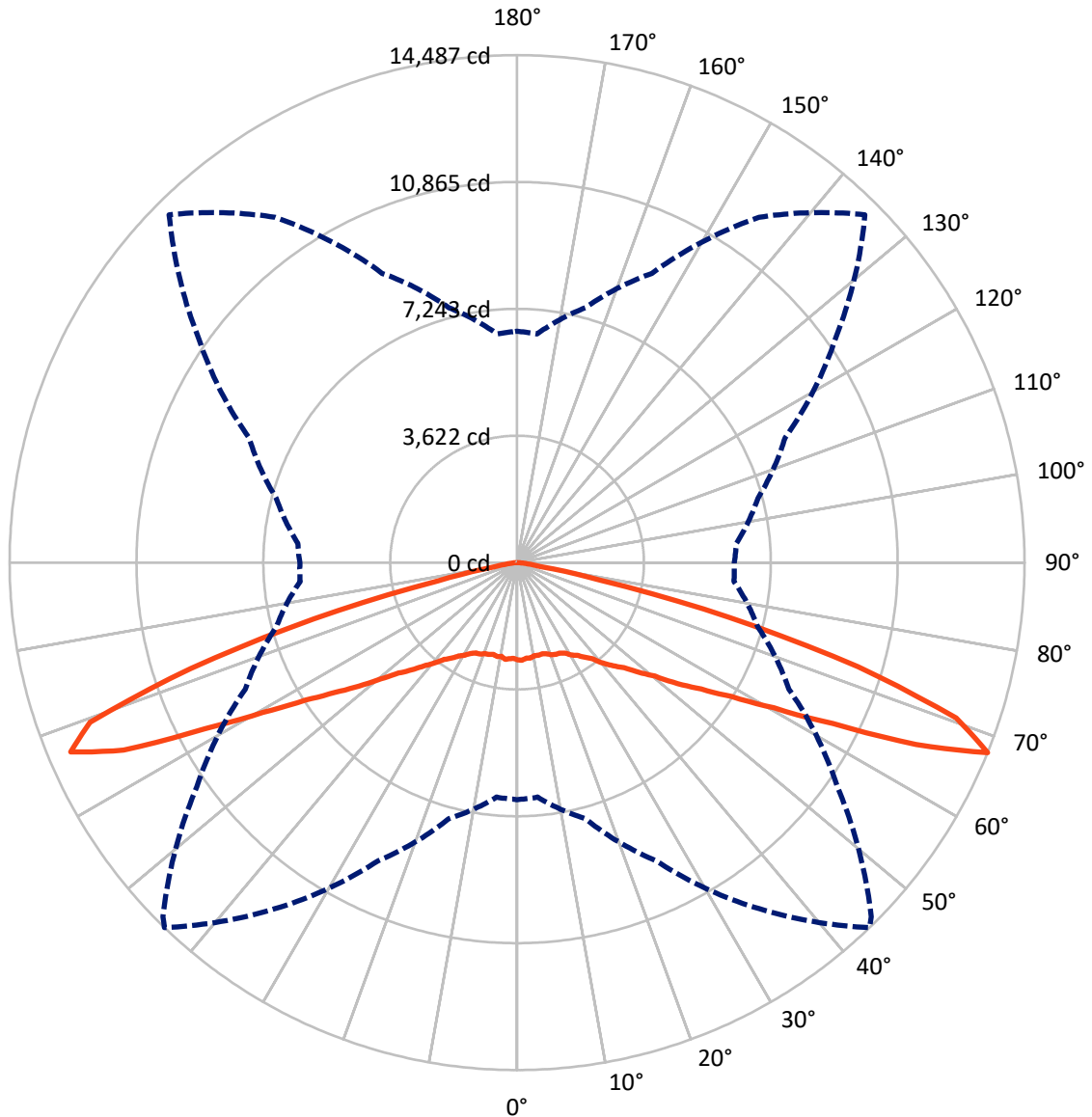
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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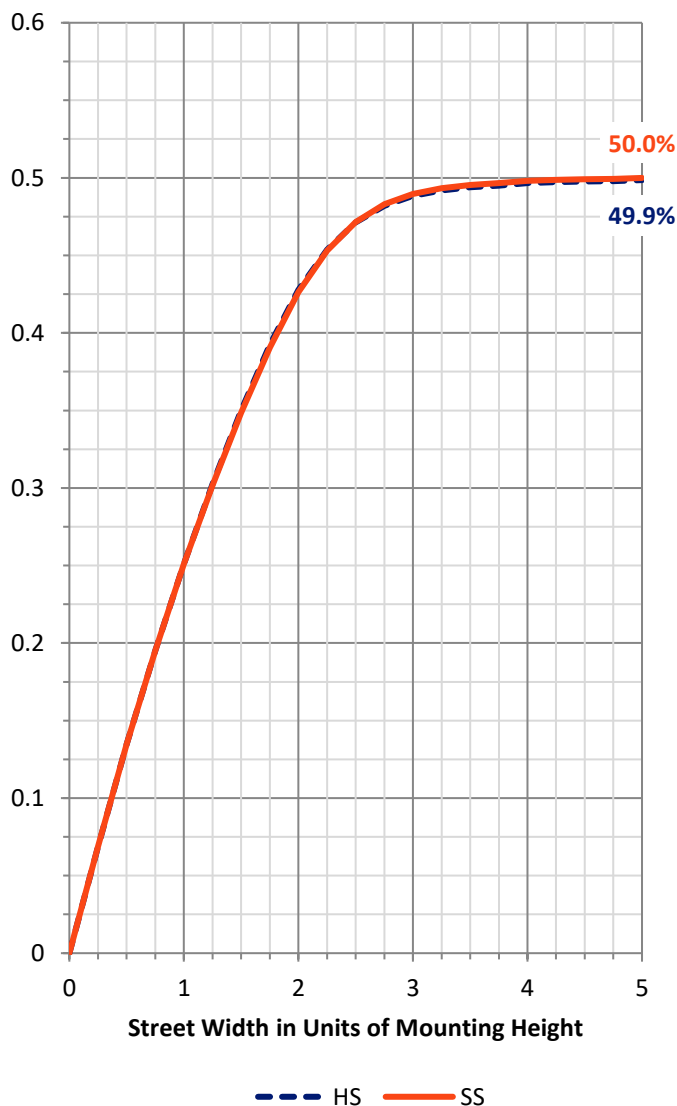
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12702.7	0.0	12702.7
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	12767.9	0.0	12767.9
	% Fixture	50.1	0.0	50.1
Total	Lumens	25470.6	0.0	25470.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.3	1.0
10°-20°	769.2	3.0
20°-30°	1308.0	5.1
30°-40°	2073.9	8.1
40°-50°	3381.7	13.3
50°-60°	5775.5	22.7
60°-70°	8784.4	34.5
70°-80°	2960.9	11.6
80°-90°	153.7	0.6
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°	25470.6	100.0
0°-180°	25470.6	100.0

Coefficient of Utilization



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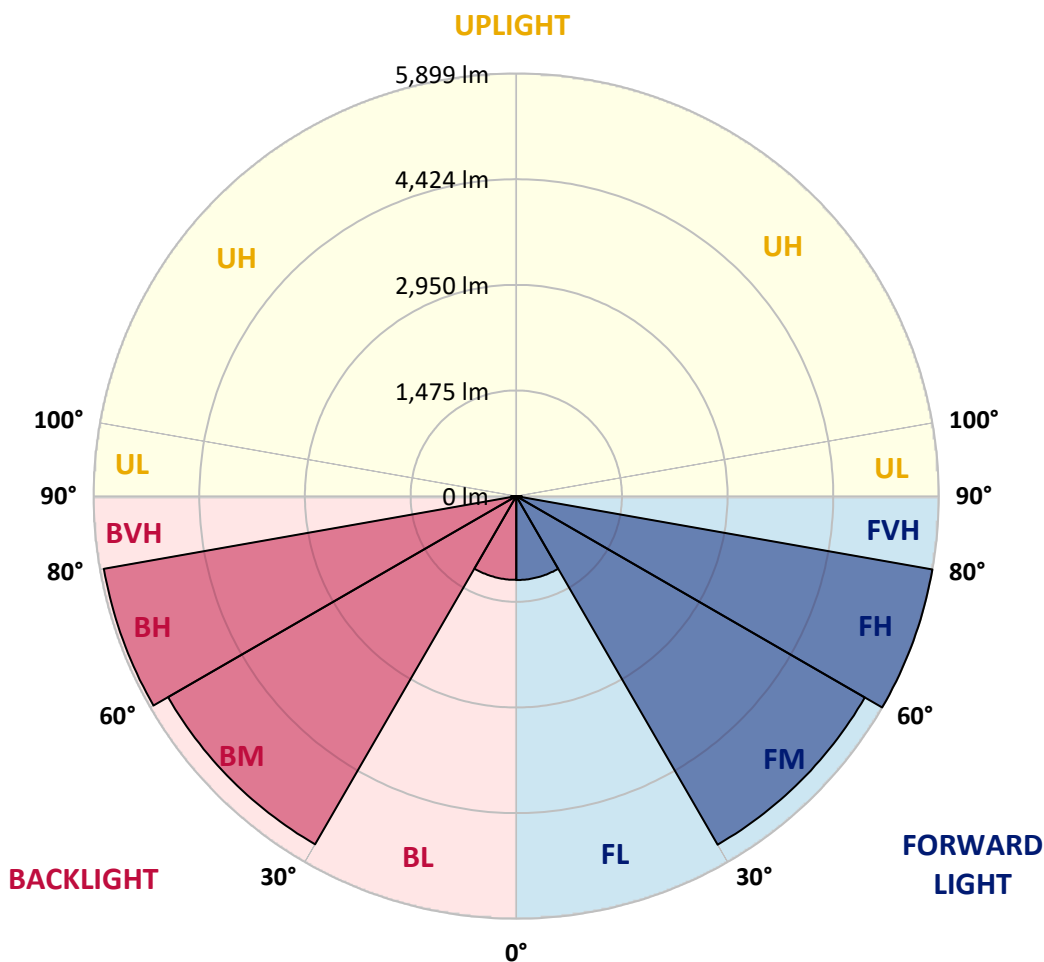
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1171.4	4.6			
FM (30°-60°)	5618.6	22.1			
FH (60°-80°)	5899.2	23.2			G3/7500
FVH (80°-90°)	78.6	0.3			G1/100
BL (0°-30°)	1169.0	4.6	B3/2500		
BM (30°-60°)	5612.5	22.0	B4/8500		
BH (60°-80°)	5846.1	23.0	B5		G3/7500
BVH (80°-90°)	75.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2782.2	2782.2	2782.2	2782.2	2782.2	2782.2	2782.2	2782.2	2782.2	2782.2	2782.2
2.5°	2718.3	2750.2	2773.5	2770.6	2779.3	2788.0	2776.4	2793.8	2782.2	2802.6	2814.2
5°	2770.6	2761.9	2764.8	2747.3	2788.0	2741.5	2741.5	2764.8	2793.8	2759.0	2779.3
7.5°	2738.6	2732.8	2718.3	2744.4	2753.1	2753.1	2776.4	2732.8	2782.2	2793.8	2796.8
10°	2703.7	2671.7	2715.4	2741.5	2747.3	2700.8	2721.2	2732.8	2718.3	2732.8	2741.5
12.5°	2674.7	2692.1	2692.1	2692.1	2683.4	2715.4	2735.7	2732.8	2703.7	2729.9	2683.4
15°	2671.7	2663.0	2689.2	2712.4	2697.9	2703.7	2712.4	2738.6	2683.4	2695.0	2695.0
17.5°	2668.8	2680.5	2689.2	2686.3	2735.7	2735.7	2727.0	2709.5	2753.1	2729.9	2697.9
20°	2680.5	2671.7	2695.0	2703.7	2738.6	2808.4	2782.2	2767.7	2744.4	2715.4	2715.4
22.5°	2695.0	2689.2	2721.2	2759.0	2825.8	2843.3	2840.4	2822.9	2782.2	2747.3	2741.5
25°	2747.3	2695.0	2729.9	2802.6	2825.8	2860.7	2884.0	2860.7	2805.5	2814.2	2761.9
27.5°	2825.8	2817.1	2863.6	2913.0	2892.7	2924.7	2904.3	2921.8	2924.7	2881.1	2828.7
30°	2918.9	2892.7	2921.8	3017.7	3026.4	3061.3	3026.4	2979.9	2994.4	2956.7	2930.5
32.5°	3052.6	3043.9	3099.1	3163.1	3174.7	3157.3	3139.8	3166.0	3104.9	3075.8	3029.3
35°	3139.8	3177.6	3244.5	3293.9	3331.7	3314.2	3323.0	3296.8	3311.3	3250.3	3229.9
37.5°	3398.6	3384.0	3398.6	3482.9	3491.6	3482.9	3491.6	3520.7	3500.3	3448.0	3395.6
40°	3642.8	3619.5	3654.4	3750.3	3744.5	3773.6	3715.4	3747.4	3747.4	3648.6	3628.2
42.5°	3825.9	3904.4	3945.1	4023.6	4052.7	4026.5	4014.9	4020.7	4084.7	3968.4	3924.8
45°	4203.9	4200.9	4323.1	4366.7	4285.3	4279.4	4256.2	4326.0	4369.6	4302.7	4285.3
47.5°	4613.8	4634.1	4703.9	4721.3	4770.8	4680.6	4680.6	4689.4	4843.4	4686.5	4605.1
50°	4983.0	5009.2	5148.7	5285.3	5192.3	5096.4	5134.2	5180.7	5265.0	5116.7	5047.0
52.5°	5430.7	5573.2	5666.2	5738.9	5805.7	5738.9	5651.7	5704.0	5869.7	5672.0	5584.8
55°	6076.1	6189.5	6276.7	6410.4	6465.7	6375.6	6366.8	6361.0	6454.1	6244.7	6125.5
57.5°	6797.1	6750.6	6890.1	7096.5	7297.1	7209.9	7183.8	7189.6	7212.8	6916.3	6826.2
60°	7692.5	7744.9	7910.6	8090.8	8303.0	8425.2	8253.6	8154.8	8175.1	7771.0	7631.5
62.5°	8204.2	8320.5	8695.5	9314.8	9742.1	10123.0	10149.1	9506.6	9076.4	8291.4	7698.3
65°	7957.1	7939.6	8646.1	9791.6	11410.9	12518.5	12352.8	10794.5	9291.5	8044.3	7247.7
67.5°	6768.0	6721.5	7576.2	9393.3	12067.9	14486.7	14297.8	11157.9	8564.7	7116.9	6215.7
70°	4360.8	4349.2	5276.6	7160.5	10774.2	13300.6	13370.4	10134.6	6971.5	5212.7	4320.1
72.5°	1584.4	1680.4	2218.2	3849.2	7317.5	10175.3	10218.9	7503.6	4009.1	2410.1	1776.3
75°	584.4	601.8	700.6	1250.1	3334.6	6247.6	6410.4	3639.9	1424.5	785.0	639.6
77.5°	337.2	340.1	375.0	465.2	988.5	2439.2	2538.0	1104.7	552.4	418.6	386.7
80°	229.7	226.8	264.6	302.4	395.4	691.9	735.5	462.2	348.9	290.7	244.2
82.5°	133.7	142.5	194.8	215.1	241.3	305.3	311.1	287.8	261.7	215.1	159.9
85°	81.4	66.9	107.6	119.2	139.5	136.6	136.6	157.0	168.6	151.2	90.1
87.5°	20.4	20.4	26.2	29.1	37.8	29.1	32.0	61.1	81.4	75.6	46.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2782.2	2782.2	2782.2	2782.2	2782.2	2782.2	2782.2	2782.2	2782.2	2782.2	2782.2
2.5°	2788.0	2779.3	2785.1	2817.1	2796.8	2735.7	2750.2	2782.2	2756.1	2741.5	2738.6
5°	2776.4	2793.8	2773.5	2779.3	2799.7	2750.2	2759.0	2799.7	2782.2	2788.0	2756.1
7.5°	2779.3	2788.0	2770.6	2744.4	2744.4	2785.1	2761.9	2767.7	2741.5	2785.1	2727.0
10°	2761.9	2738.6	2718.3	2732.8	2727.0	2715.4	2706.6	2724.1	2697.9	2735.7	2695.0
12.5°	2709.5	2715.4	2709.5	2703.7	2715.4	2744.4	2697.9	2703.7	2663.0	2668.8	2689.2
15°	2689.2	2706.6	2700.8	2732.8	2747.3	2703.7	2738.6	2703.7	2671.7	2654.3	2686.3
17.5°	2697.9	2724.1	2715.4	2738.6	2712.4	2744.4	2750.2	2735.7	2697.9	2683.4	2697.9
20°	2706.6	2697.9	2709.5	2750.2	2788.0	2756.1	2756.1	2747.3	2712.4	2692.1	2692.1
22.5°	2727.0	2712.4	2729.9	2761.9	2773.5	2822.9	2779.3	2759.0	2700.8	2648.5	2697.9
25°	2767.7	2776.4	2788.0	2776.4	2840.4	2834.5	2828.7	2814.2	2724.1	2727.0	2718.3
27.5°	2846.2	2796.8	2811.3	2881.1	2889.8	2913.0	2884.0	2910.1	2814.2	2817.1	2759.0
30°	2942.1	2889.8	2936.3	2997.4	2994.4	3038.1	3023.5	3029.3	2962.5	2924.7	2846.2
32.5°	3046.8	3041.0	3070.0	3107.8	3122.4	3145.6	3142.7	3142.7	3102.0	3003.2	3017.7
35°	3163.1	3203.8	3238.7	3279.4	3285.2	3314.2	3273.5	3279.4	3238.7	3166.0	3189.2
37.5°	3392.7	3389.8	3427.6	3477.0	3482.9	3459.6	3491.6	3477.0	3421.8	3372.4	3334.6
40°	3660.2	3602.1	3636.9	3753.2	3762.0	3721.3	3718.3	3715.4	3674.7	3567.2	3543.9
42.5°	3892.8	3968.4	3962.6	4000.3	3974.2	3953.8	4026.5	3985.8	3953.8	3840.5	3820.1
45°	4192.2	4215.5	4291.1	4413.2	4288.2	4288.2	4337.6	4305.6	4288.2	4203.9	4125.4
47.5°	4564.4	4584.7	4735.9	4744.6	4663.2	4608.0	4762.0	4767.9	4695.2	4631.2	4535.3
50°	5000.4	5009.2	5145.8	5285.3	5195.2	5090.6	5247.6	5308.6	5145.8	5058.6	4939.4
52.5°	5480.1	5454.0	5567.3	5829.0	5741.8	5709.8	5878.4	5893.0	5672.0	5535.4	5567.3
55°	6032.5	5997.6	6305.8	6483.1	6427.9	6369.7	6445.3	6480.2	6302.9	6079.0	6157.5
57.5°	6747.7	6765.1	6919.2	7093.6	7183.8	7198.3	7233.2	7198.3	7018.1	6791.3	6718.6
60°	7462.9	7515.2	7814.6	8143.2	8172.2	8428.1	8381.5	8207.1	7951.3	7628.6	7643.1
62.5°	7727.4	7683.8	8166.4	8968.8	9652.0	10120.1	9913.7	9294.4	8701.3	8114.1	8157.7
65°	7195.4	7303.0	7960.0	9215.9	10698.6	12550.5	11451.6	9739.2	8541.4	7782.7	7698.3
67.5°	6201.1	6282.5	7116.9	8442.6	11073.6	14044.8	12033.0	9111.3	7532.6	6550.0	6602.3
70°	4320.1	4360.8	5177.8	6916.3	10041.6	13254.1	10855.6	6997.7	5201.0	4145.7	4203.9
72.5°	1738.5	1837.4	2375.2	4166.1	7413.4	10070.6	7308.8	3671.8	2157.2	1604.8	1456.5
75°	642.5	645.4	758.8	1433.3	3520.7	6329.0	3296.8	1180.3	689.0	564.0	537.8
77.5°	372.1	369.2	395.4	517.5	1020.4	2471.1	936.1	462.2	375.0	337.2	322.7
80°	232.6	229.7	270.4	343.1	447.7	677.4	395.4	287.8	252.9	218.0	218.0
82.5°	148.3	151.2	212.2	252.9	273.3	299.4	229.7	203.5	189.0	125.0	122.1
85°	95.9	87.2	148.3	168.6	151.2	133.7	127.9	107.6	98.8	61.1	66.9
87.5°	43.6	46.5	75.6	84.3	55.2	32.0	32.0	23.3	23.3	14.5	14.5
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)