

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: P479473

Luminaire Tested: **IFLD-L-SA8A-827-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479473
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-827-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

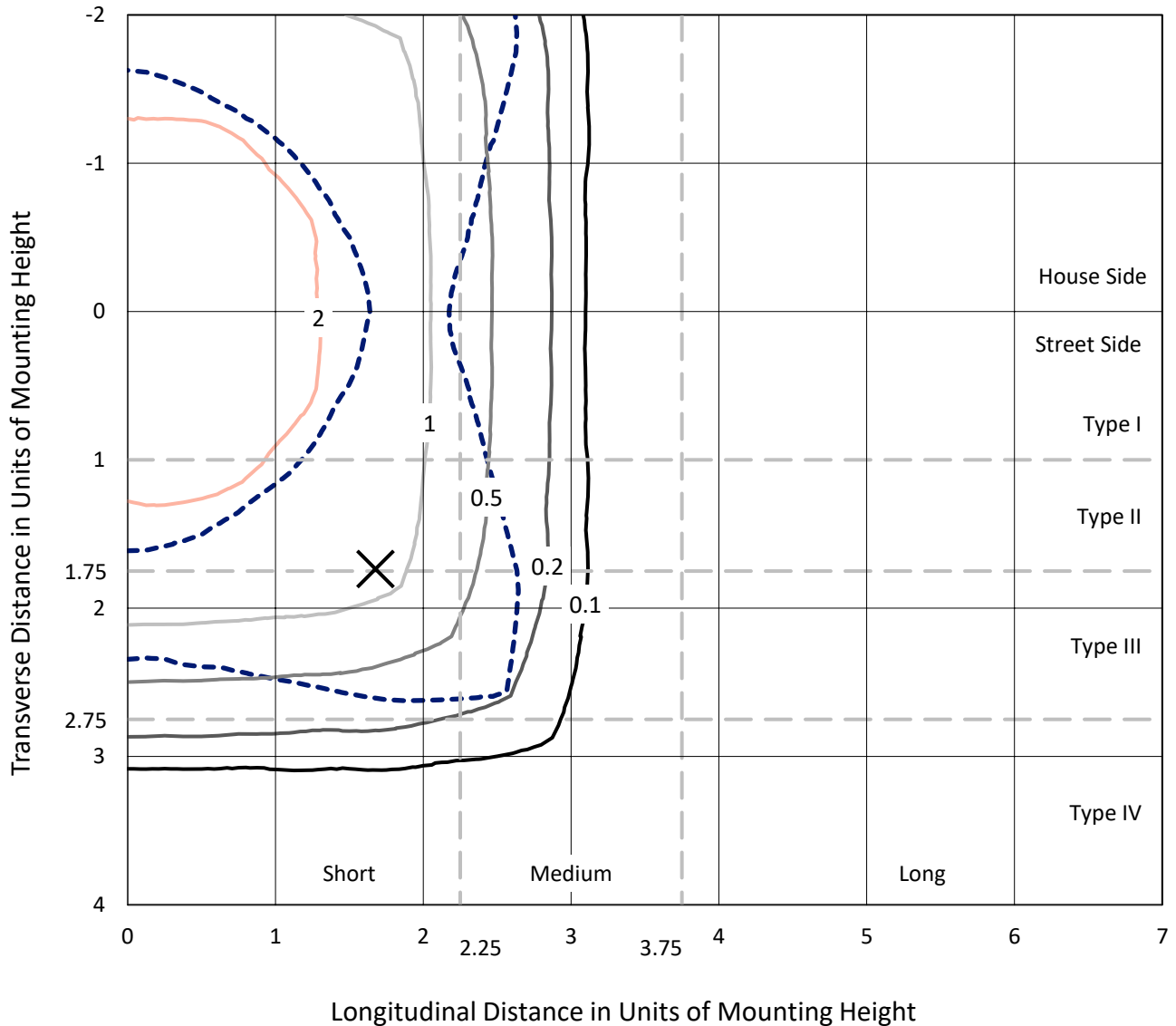
Lumens per Lamp: N/A
Luminaire Lumens: 25418.7 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

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

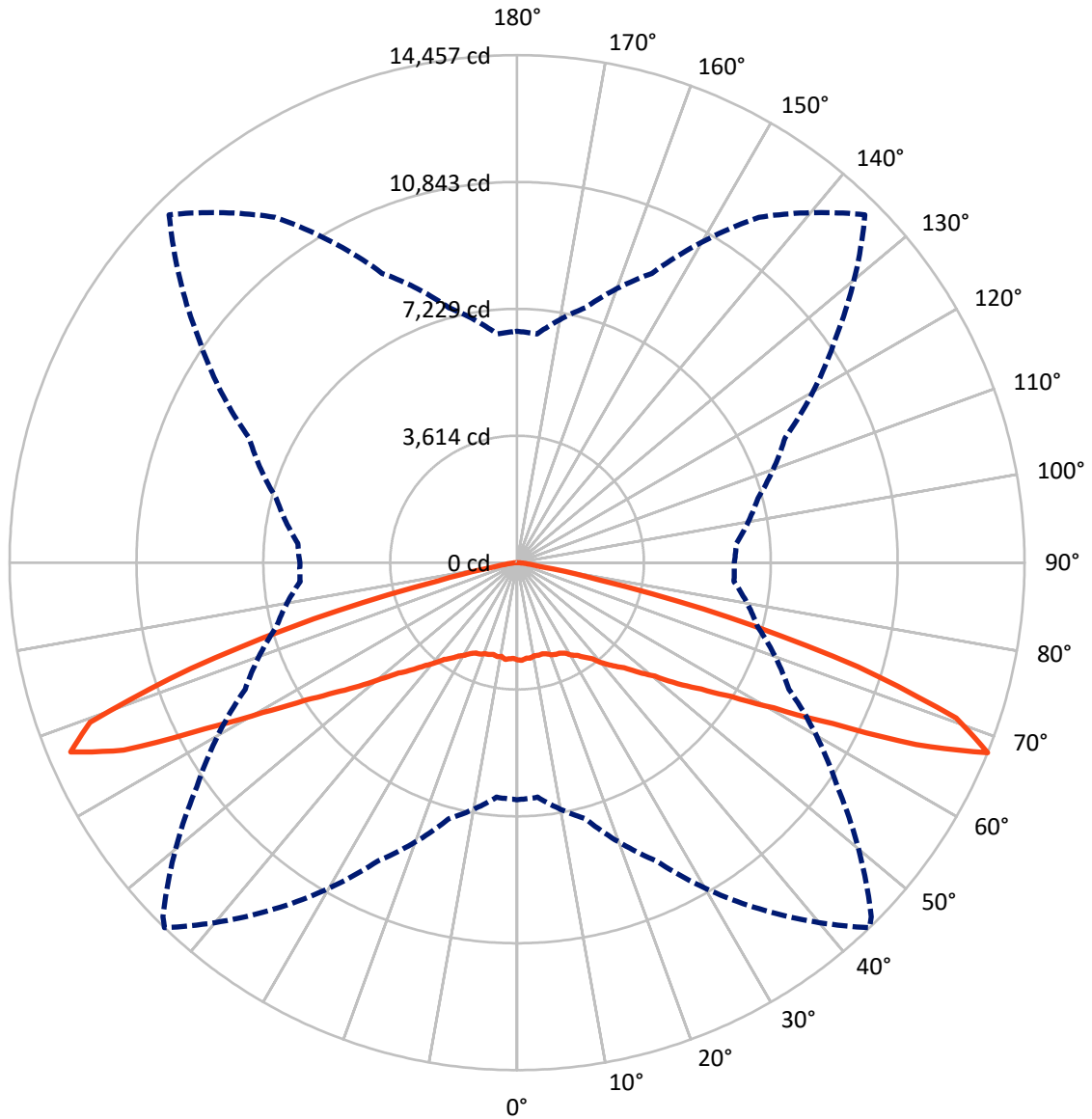
✕ Max cd
 - - - 1/2 Max cd



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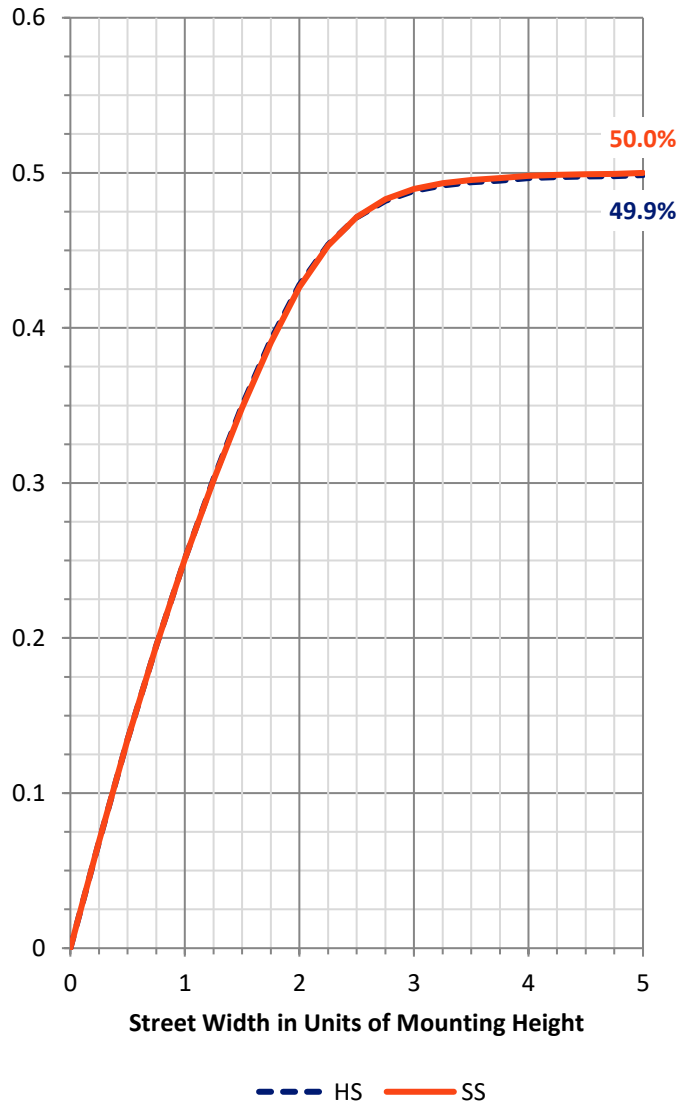
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12676.8	0.0	12676.8
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	12741.9	0.0	12741.9
	% Fixture	50.1	0.0	50.1
Total	Lumens	25418.7	0.0	25418.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.7	1.0
10°-20°	767.6	3.0
20°-30°	1305.4	5.1
30°-40°	2069.7	8.1
40°-50°	3374.8	13.3
50°-60°	5763.7	22.7
60°-70°	8766.5	34.5
70°-80°	2954.9	11.6
80°-90°	153.4	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°	25418.7	100.0
0°-180°	25418.7	100.0

Coefficient of Utilization



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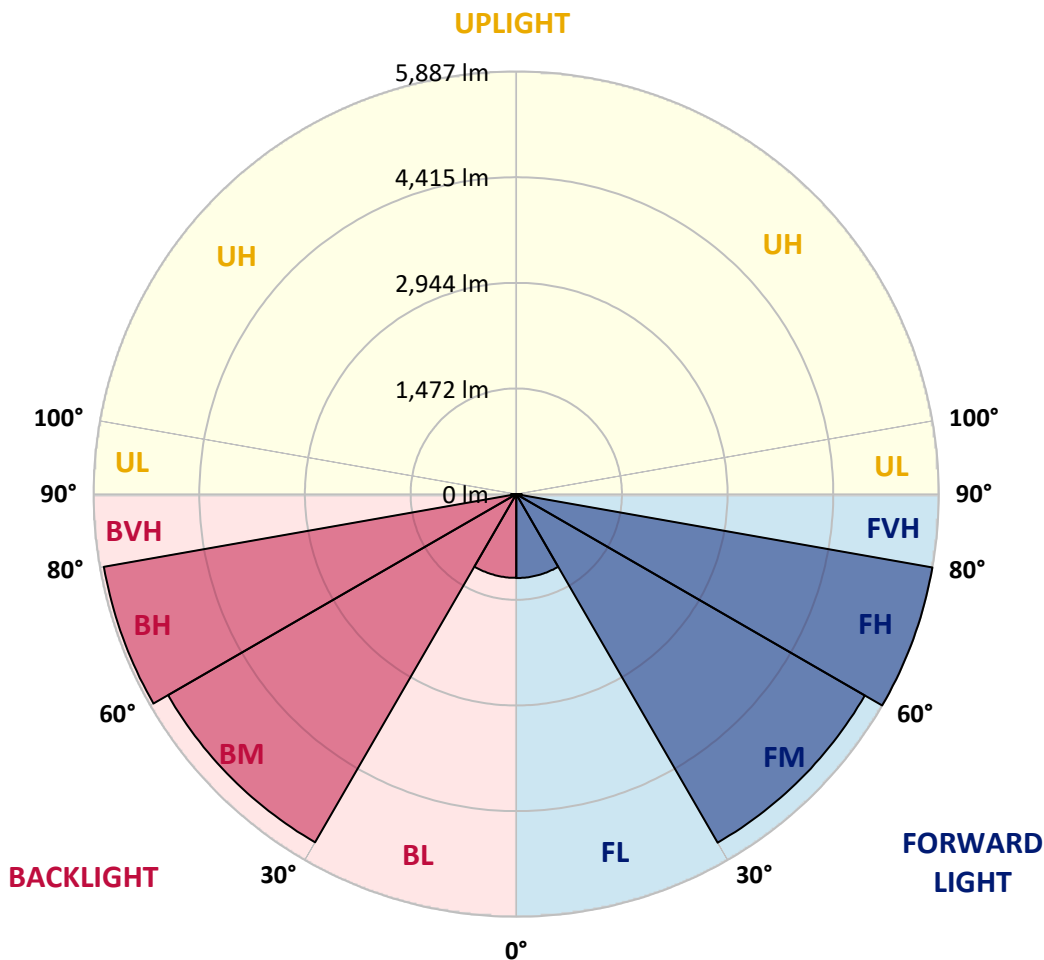
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1169.0	4.6			
FM (30°-60°)	5607.1	22.1			
FH (60°-80°)	5887.2	23.2			G3/7500
FVH (80°-90°)	78.5	0.3			G1/100
BL (0°-30°)	1166.6	4.6	B3/2500		
BM (30°-60°)	5601.1	22.0	B4/8500		
BH (60°-80°)	5834.2	23.0	B5		G3/7500
BVH (80°-90°)	74.9	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°	2776.6	2776.6	2776.6	2776.6	2776.6	2776.6	2776.6	2776.6	2776.6	2776.6	2776.6
2.5°	2712.7	2744.6	2767.8	2764.9	2773.7	2782.4	2770.8	2788.2	2776.6	2796.9	2808.5
5°	2764.9	2756.2	2759.1	2741.7	2782.4	2735.9	2735.9	2759.1	2788.2	2753.3	2773.7
7.5°	2733.0	2727.2	2712.7	2738.8	2747.5	2747.5	2770.8	2727.2	2776.6	2788.2	2791.1
10°	2698.2	2666.3	2709.8	2735.9	2741.7	2695.3	2715.6	2727.2	2712.7	2727.2	2735.9
12.5°	2669.2	2686.6	2686.6	2686.6	2677.9	2709.8	2730.1	2727.2	2698.2	2724.3	2677.9
15°	2666.3	2657.6	2683.7	2706.9	2692.4	2698.2	2706.9	2733.0	2677.9	2689.5	2689.5
17.5°	2663.4	2675.0	2683.7	2680.8	2730.1	2730.1	2721.4	2704.0	2747.5	2724.3	2692.4
20°	2675.0	2666.3	2689.5	2698.2	2733.0	2802.7	2776.6	2762.0	2738.8	2709.8	2709.8
22.5°	2689.5	2683.7	2715.6	2753.3	2820.1	2837.5	2834.6	2817.2	2776.6	2741.7	2735.9
25°	2741.7	2689.5	2724.3	2796.9	2820.1	2854.9	2878.1	2854.9	2799.8	2808.5	2756.2
27.5°	2820.1	2811.4	2857.8	2907.1	2886.8	2918.7	2898.4	2915.8	2918.7	2875.2	2823.0
30°	2912.9	2886.8	2915.8	3011.6	3020.3	3055.1	3020.3	2973.8	2988.3	2950.6	2924.5
32.5°	3046.4	3037.7	3092.8	3156.6	3168.2	3150.8	3133.4	3159.5	3098.6	3069.6	3023.2
35°	3133.4	3171.1	3237.9	3287.2	3324.9	3307.5	3316.2	3290.1	3304.6	3243.7	3223.4
37.5°	3391.6	3377.1	3391.6	3475.8	3484.5	3475.8	3484.5	3513.5	3493.2	3441.0	3388.7
40°	3635.3	3612.1	3646.9	3742.7	3736.9	3765.9	3707.9	3739.8	3739.8	3641.1	3620.8
42.5°	3818.1	3896.5	3937.1	4015.4	4044.4	4018.3	4006.7	4012.5	4076.3	3960.3	3916.8
45°	4195.3	4192.4	4314.2	4357.8	4276.5	4270.7	4247.5	4317.1	4360.7	4293.9	4276.5
47.5°	4604.4	4624.7	4694.3	4711.7	4761.0	4671.1	4671.1	4679.8	4833.6	4676.9	4595.7
50°	4972.8	4999.0	5138.2	5274.6	5181.7	5086.0	5123.7	5170.1	5254.3	5106.3	5036.7
52.5°	5419.6	5561.8	5654.7	5727.2	5793.9	5727.2	5640.1	5692.4	5857.7	5660.5	5573.4
55°	6063.7	6176.9	6263.9	6397.4	6452.5	6362.6	6353.9	6348.1	6440.9	6232.0	6113.1
57.5°	6783.3	6736.8	6876.1	7082.1	7282.3	7195.2	7169.1	7174.9	7198.1	6902.2	6812.3
60°	7676.9	7729.1	7894.5	8074.3	8286.1	8408.0	8236.8	8138.2	8158.5	7755.2	7615.9
62.5°	8187.5	8303.5	8677.8	9295.8	9722.3	10102.4	10128.5	9487.3	9057.9	8274.5	7682.7
65°	7940.9	7923.5	8628.5	9771.6	11387.6	12493.0	12327.7	10772.6	9272.6	8027.9	7233.0
67.5°	6754.2	6707.8	7560.8	9374.1	12043.3	14457.2	14268.6	11135.2	8547.3	7102.4	6203.0
70°	4352.0	4340.4	5265.9	7145.9	10752.3	13273.5	13343.1	10114.0	6957.3	5202.0	4311.3
72.5°	1581.2	1677.0	2213.7	3841.3	7302.6	10154.6	10198.1	7488.3	4000.9	2405.2	1772.7
75°	583.2	600.6	699.2	1247.6	3327.8	6234.9	6397.4	3632.4	1421.6	783.4	638.3
77.5°	336.6	339.5	374.3	464.2	986.4	2434.2	2532.8	1102.5	551.2	417.8	385.9
80°	229.2	226.3	264.0	301.7	394.6	690.5	734.0	461.3	348.2	290.1	243.7
82.5°	133.5	142.2	194.4	214.7	240.8	304.6	310.4	287.2	261.1	214.7	159.6
85°	81.2	66.7	107.3	119.0	139.3	136.4	136.4	156.7	168.3	150.9	89.9
87.5°	20.3	20.3	26.1	29.0	37.7	29.0	31.9	60.9	81.2	75.4	46.4
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°	2776.6	2776.6	2776.6	2776.6	2776.6	2776.6	2776.6	2776.6	2776.6	2776.6	2776.6
2.5°	2782.4	2773.7	2779.5	2811.4	2791.1	2730.1	2744.6	2776.6	2750.4	2735.9	2733.0
5°	2770.8	2788.2	2767.8	2773.7	2794.0	2744.6	2753.3	2794.0	2776.6	2782.4	2750.4
7.5°	2773.7	2782.4	2764.9	2738.8	2738.8	2779.5	2756.2	2762.0	2735.9	2779.5	2721.4
10°	2756.2	2733.0	2712.7	2727.2	2721.4	2709.8	2701.1	2718.5	2692.4	2730.1	2689.5
12.5°	2704.0	2709.8	2704.0	2698.2	2709.8	2738.8	2692.4	2698.2	2657.6	2663.4	2683.7
15°	2683.7	2701.1	2695.3	2727.2	2741.7	2698.2	2733.0	2698.2	2666.3	2648.9	2680.8
17.5°	2692.4	2718.5	2709.8	2733.0	2706.9	2738.8	2744.6	2730.1	2692.4	2677.9	2692.4
20°	2701.1	2692.4	2704.0	2744.6	2782.4	2750.4	2750.4	2741.7	2706.9	2686.6	2686.6
22.5°	2721.4	2706.9	2724.3	2756.2	2767.8	2817.2	2773.7	2753.3	2695.3	2643.1	2692.4
25°	2762.0	2770.8	2782.4	2770.8	2834.6	2828.8	2823.0	2808.5	2718.5	2721.4	2712.7
27.5°	2840.4	2791.1	2805.6	2875.2	2883.9	2907.1	2878.1	2904.2	2808.5	2811.4	2753.3
30°	2936.1	2883.9	2930.3	2991.3	2988.3	3031.9	3017.4	3023.2	2956.4	2918.7	2840.4
32.5°	3040.6	3034.8	3063.8	3101.5	3116.0	3139.2	3136.3	3136.3	3095.7	2997.1	3011.6
35°	3156.6	3197.2	3232.1	3272.7	3278.5	3307.5	3266.9	3272.7	3232.1	3159.5	3182.7
37.5°	3385.8	3382.9	3420.6	3470.0	3475.8	3452.6	3484.5	3470.0	3414.8	3365.5	3327.8
40°	3652.7	3594.7	3629.5	3745.6	3754.3	3713.7	3710.8	3707.9	3667.3	3559.9	3536.7
42.5°	3884.9	3960.3	3954.5	3992.2	3966.1	3945.8	4018.3	3977.7	3945.8	3832.6	3812.3
45°	4183.7	4206.9	4282.3	4404.2	4279.4	4279.4	4328.8	4296.8	4279.4	4195.3	4117.0
47.5°	4555.1	4575.4	4726.2	4734.9	4653.7	4598.6	4752.3	4758.1	4685.6	4621.8	4526.0
50°	4990.3	4999.0	5135.3	5274.6	5184.6	5080.2	5236.9	5297.8	5135.3	5048.3	4929.3
52.5°	5469.0	5442.9	5556.0	5817.1	5730.1	5698.2	5866.4	5881.0	5660.5	5524.1	5556.0
55°	6020.2	5985.4	6292.9	6469.9	6414.8	6356.8	6432.2	6467.0	6290.0	6066.6	6145.0
57.5°	6733.9	6751.3	6905.1	7079.2	7169.1	7183.6	7218.5	7183.6	7003.8	6777.5	6704.9
60°	7447.7	7499.9	7798.7	8126.6	8155.6	8410.9	8364.5	8190.4	7935.1	7613.0	7627.5
62.5°	7711.7	7668.2	8149.8	8950.5	9632.3	10099.5	9893.5	9275.5	8683.6	8097.6	8141.1
65°	7180.7	7288.1	7943.8	9197.2	10676.8	12525.0	11428.3	9719.4	8524.0	7766.8	7682.7
67.5°	6188.5	6269.7	7102.4	8425.4	11051.1	14016.2	12008.5	9092.7	7517.3	6536.7	6588.9
70°	4311.3	4352.0	5167.2	6902.2	10021.1	13227.1	10833.5	6983.5	5190.4	4137.3	4195.3
72.5°	1735.0	1833.6	2370.4	4157.6	7398.3	10050.1	7293.9	3664.4	2152.8	1601.5	1453.6
75°	641.2	644.1	757.2	1430.3	3513.5	6316.2	3290.1	1177.9	687.6	562.9	536.7
77.5°	371.4	368.5	394.6	516.4	1018.4	2466.1	934.2	461.3	374.3	336.6	322.0
80°	232.1	229.2	269.8	342.4	446.8	676.0	394.6	287.2	252.4	217.6	217.6
82.5°	148.0	150.9	211.8	252.4	272.7	298.8	229.2	203.1	188.6	124.8	121.9
85°	95.7	87.0	148.0	168.3	150.9	133.5	127.7	107.3	98.6	60.9	66.7
87.5°	43.5	46.4	75.4	84.1	55.1	31.9	31.9	23.2	23.2	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)