

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: P479309

Luminaire Tested: **IFLD-M-SA4C-735-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479309
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-735-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

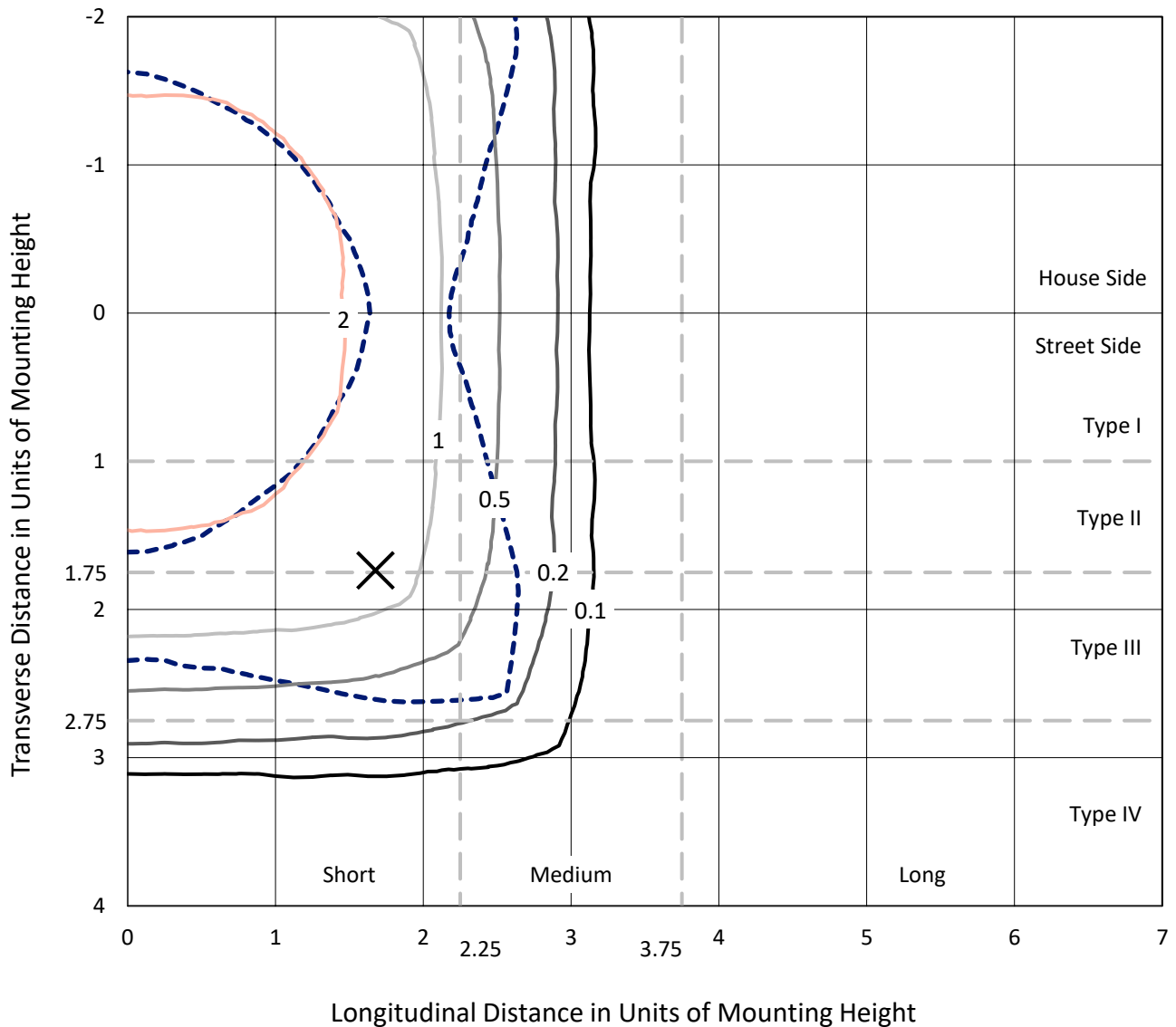
Lumens per Lamp: N/A
Luminaire Lumens: 28306 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 218.1
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

REPORT NUMBER: P479309
 CATALOG NUMBER: IFLD-M-SA4C-735-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

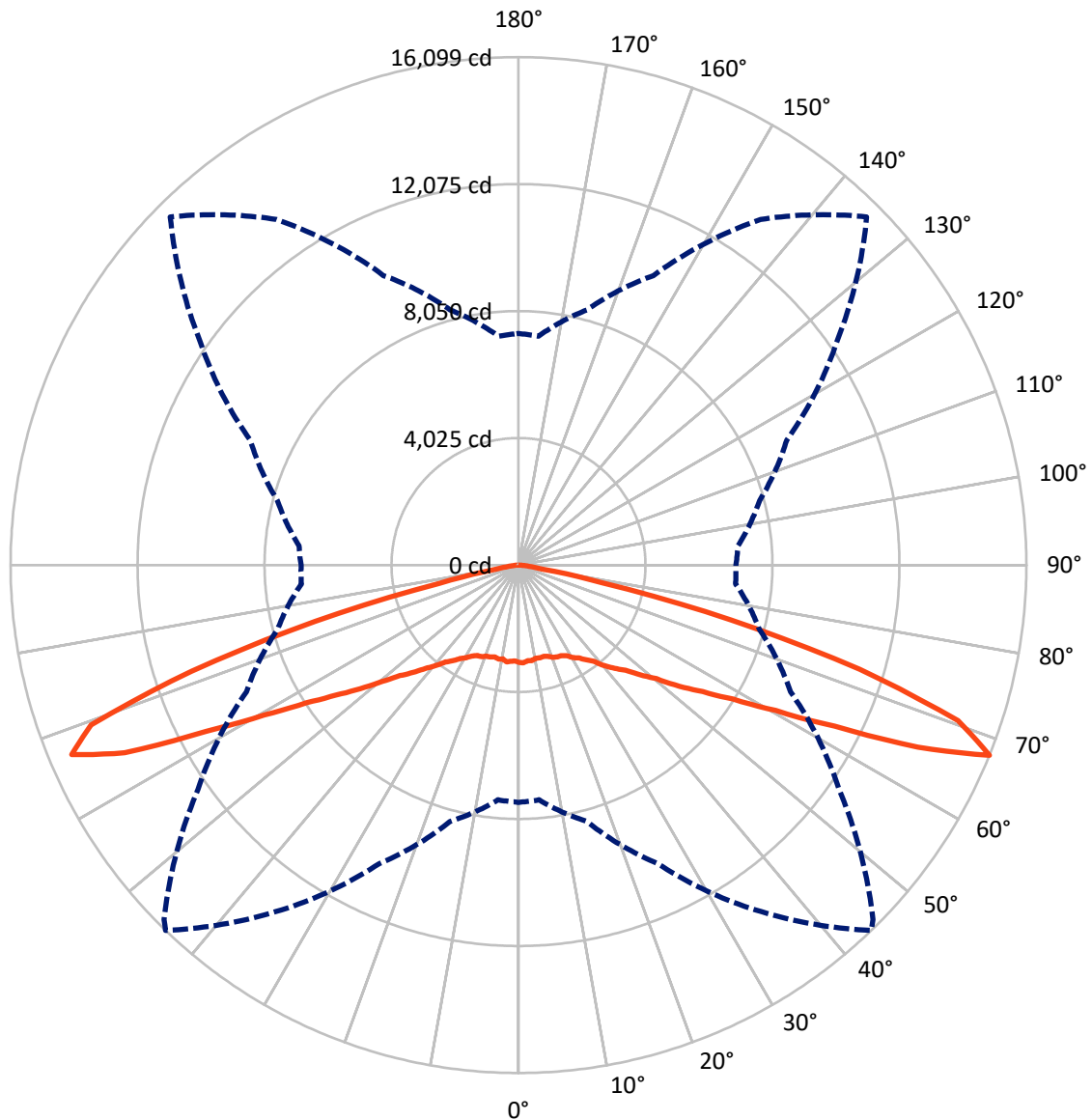
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type V - Short - N/A

REPORT NUMBER: P479309
CATALOG NUMBER: IFLD-M-SA4C-735-U-5MQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P479309
 CATALOG NUMBER: IFLD-M-SA4C-735-U-5MQ

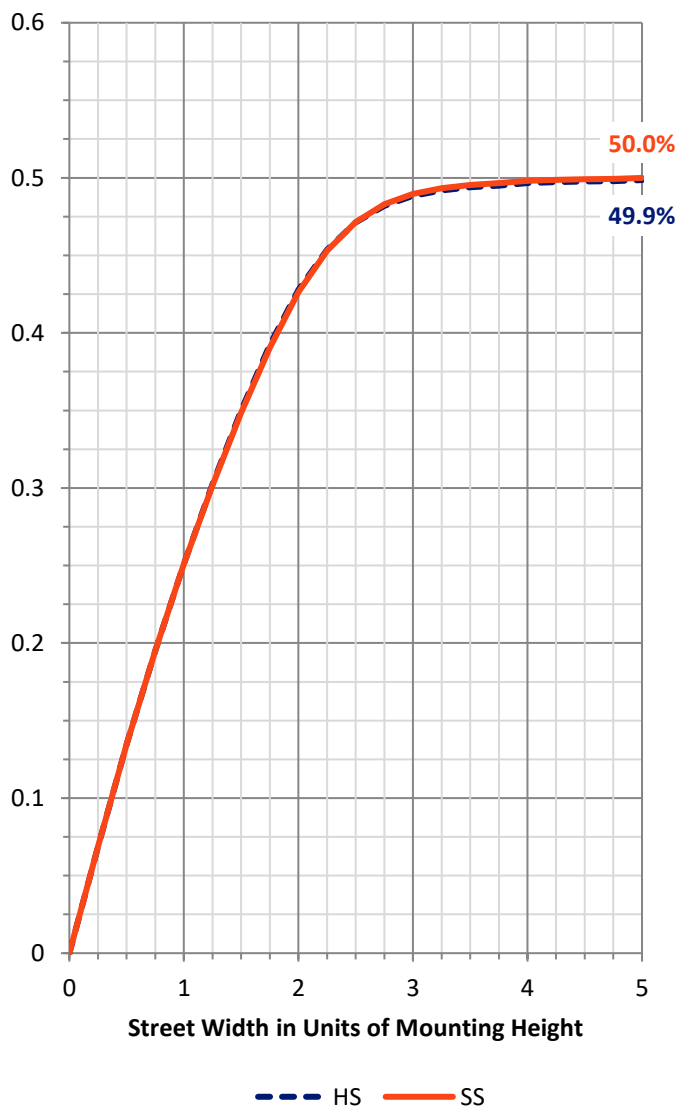
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14116.8	0.0	14116.8
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	14189.2	0.0	14189.2
	% Fixture	50.1	0.0	50.1
Total	Lumens	28306.0	0.0	28306.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.6	1.0
10°-20°	854.8	3.0
20°-30°	1453.6	5.1
30°-40°	2304.8	8.1
40°-50°	3758.2	13.3
50°-60°	6418.4	22.7
60°-70°	9762.3	34.5
70°-80°	3290.5	11.6
80°-90°	170.8	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°	28306.0	100.0
0°-180°	28306.0	100.0

Coefficient of Utilization



REPORT NUMBER: P479309

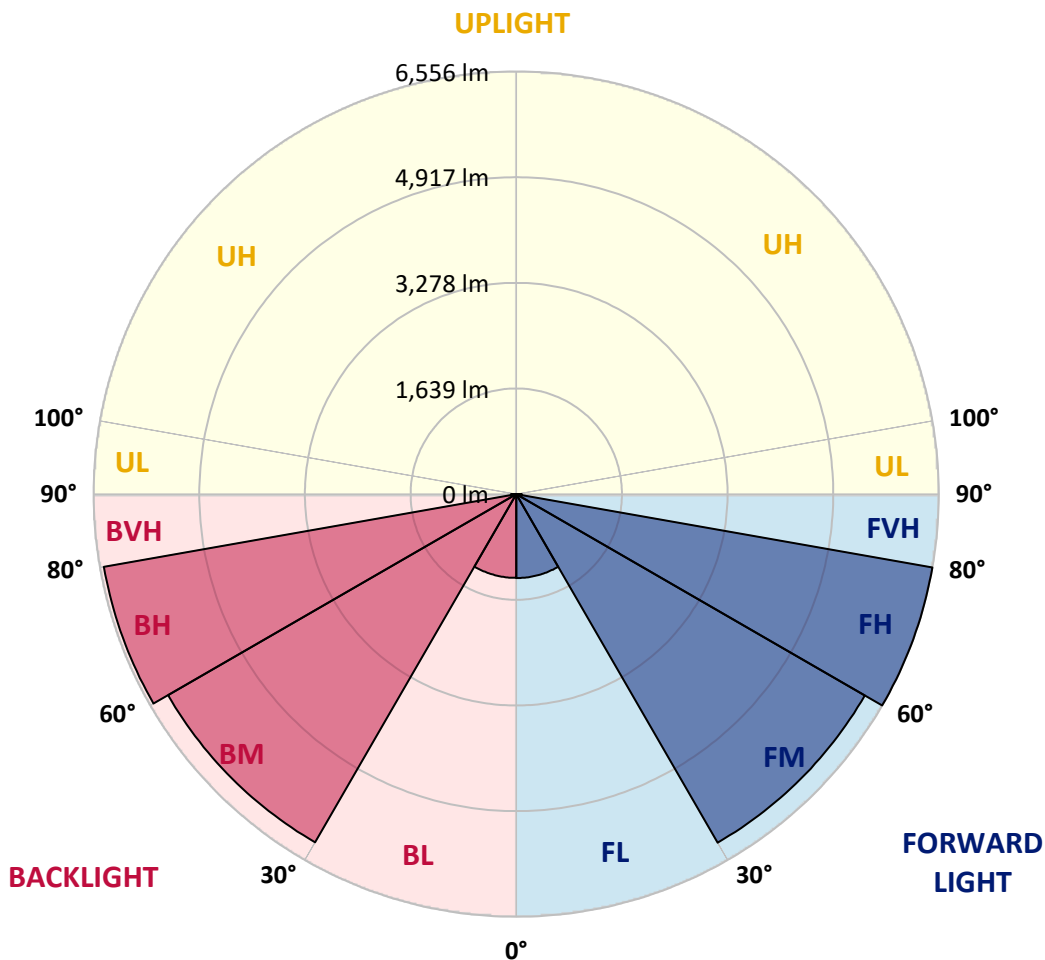
CATALOG NUMBER: IFLD-M-SA4C-735-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1301.8	4.6			
FM (30°-60°)	6244.0	22.1			
FH (60°-80°)	6556.0	23.2			G3/7500
FVH (80°-90°)	87.4	0.3			G1/100
BL (0°-30°)	1299.2	4.6	B3/2500		
BM (30°-60°)	6237.3	22.0	B4/8500		
BH (60°-80°)	6496.9	23.0	B5		G3/7500
BVH (80°-90°)	83.4	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





REPORT NUMBER: P479309
 CATALOG NUMBER: IFLD-M-SA4C-735-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3091.9	3091.9	3091.9	3091.9	3091.9	3091.9	3091.9	3091.9	3091.9	3091.9	3091.9
2.5°	3020.9	3056.4	3082.3	3079.0	3088.7	3098.4	3085.5	3104.9	3091.9	3114.6	3127.5
5°	3079.0	3069.3	3072.6	3053.2	3098.4	3046.7	3046.7	3072.6	3104.9	3066.1	3088.7
7.5°	3043.5	3037.0	3020.9	3049.9	3059.6	3059.6	3085.5	3037.0	3091.9	3104.9	3108.1
10°	3004.7	2969.2	3017.6	3046.7	3053.2	3001.5	3024.1	3037.0	3020.9	3037.0	3046.7
12.5°	2972.4	2991.8	2991.8	2991.8	2982.1	3017.6	3040.2	3037.0	3004.7	3033.8	2982.1
15°	2969.2	2959.5	2988.6	3014.4	2998.2	3004.7	3014.4	3043.5	2982.1	2995.0	2995.0
17.5°	2965.9	2978.9	2988.6	2985.3	3040.2	3040.2	3030.6	3011.2	3059.6	3033.8	2998.2
20°	2978.9	2969.2	2995.0	3004.7	3043.5	3121.0	3091.9	3075.8	3049.9	3017.6	3017.6
22.5°	2995.0	2988.6	3024.1	3066.1	3140.4	3159.8	3156.6	3137.2	3091.9	3053.2	3046.7
25°	3053.2	2995.0	3033.8	3114.6	3140.4	3179.2	3205.0	3179.2	3117.8	3127.5	3069.3
27.5°	3140.4	3130.7	3182.4	3237.3	3214.7	3250.3	3227.6	3247.0	3250.3	3201.8	3143.6
30°	3243.8	3214.7	3247.0	3353.6	3363.3	3402.1	3363.3	3311.6	3327.8	3285.8	3256.7
32.5°	3392.4	3382.7	3444.1	3515.2	3528.1	3508.7	3489.3	3518.4	3450.6	3418.3	3366.6
35°	3489.3	3531.3	3605.7	3660.6	3702.6	3683.2	3692.9	3663.8	3680.0	3612.1	3589.5
37.5°	3776.9	3760.7	3776.9	3870.6	3880.3	3870.6	3880.3	3912.6	3890.0	3831.8	3773.7
40°	4048.3	4022.4	4061.2	4167.8	4161.4	4193.7	4129.1	4164.6	4164.6	4054.7	4032.1
42.5°	4251.8	4339.1	4384.3	4471.5	4503.8	4474.8	4461.8	4468.3	4539.4	4410.1	4361.7
45°	4671.8	4668.6	4804.3	4852.8	4762.3	4755.8	4730.0	4807.5	4856.0	4781.7	4762.3
47.5°	5127.4	5150.0	5227.5	5246.9	5301.9	5201.7	5201.7	5211.4	5382.6	5208.2	5117.7
50°	5537.7	5566.8	5721.9	5873.7	5770.3	5663.7	5705.7	5757.4	5851.1	5686.3	5608.8
52.5°	6035.3	6193.6	6297.0	6377.7	6452.0	6377.7	6280.8	6339.0	6523.1	6303.4	6206.5
55°	6752.5	6878.5	6975.5	7124.1	7185.5	7085.3	7075.6	7069.1	7172.5	6939.9	6807.4
57.5°	7553.8	7502.1	7657.2	7886.6	8109.5	8012.6	7983.5	7989.9	8015.8	7686.2	7586.1
60°	8548.9	8607.0	8791.2	8991.5	9227.4	9363.1	9172.4	9062.6	9085.2	8636.1	8481.0
62.5°	9117.5	9246.8	9663.5	10351.7	10826.6	11249.9	11279.0	10564.9	10086.8	9214.4	8555.3
65°	8842.9	8823.5	9608.6	10881.6	12681.2	13912.1	13728.0	11996.2	10325.9	8939.8	8054.6
67.5°	7521.5	7469.8	8419.6	10438.9	13411.3	16099.4	15889.4	12400.1	9518.1	7909.2	6907.6
70°	4846.3	4833.4	5864.0	7957.6	11973.6	14781.2	14858.8	11262.8	7747.6	5793.0	4801.1
72.5°	1760.8	1867.4	2465.2	4277.7	8132.1	11308.0	11356.5	8338.9	4455.4	2678.4	1974.1
75°	649.4	668.8	778.6	1389.3	3705.8	6943.1	7124.1	4045.1	1583.1	872.3	710.8
77.5°	374.8	378.0	416.8	516.9	1098.5	2710.7	2820.6	1227.7	613.9	465.2	429.7
80°	255.2	252.0	294.0	336.0	439.4	768.9	817.4	513.7	387.7	323.1	271.4
82.5°	148.6	158.3	216.5	239.1	268.2	339.2	345.7	319.9	290.8	239.1	177.7
85°	90.5	74.3	119.5	132.5	155.1	151.9	151.9	174.5	187.4	168.0	100.2
87.5°	22.6	22.6	29.1	32.3	42.0	32.3	35.5	67.8	90.5	84.0	51.7
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: P479309
 CATALOG NUMBER: IFLD-M-SA4C-735-U-5MQ

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3091.9	3091.9	3091.9	3091.9	3091.9	3091.9	3091.9	3091.9	3091.9	3091.9	3091.9
2.5°	3098.4	3088.7	3095.2	3130.7	3108.1	3040.2	3056.4	3091.9	3062.9	3046.7	3043.5
5°	3085.5	3104.9	3082.3	3088.7	3111.3	3056.4	3066.1	3111.3	3091.9	3098.4	3062.9
7.5°	3088.7	3098.4	3079.0	3049.9	3049.9	3095.2	3069.3	3075.8	3046.7	3095.2	3030.6
10°	3069.3	3043.5	3020.9	3037.0	3030.6	3017.6	3007.9	3027.3	2998.2	3040.2	2995.0
12.5°	3011.2	3017.6	3011.2	3004.7	3017.6	3049.9	2998.2	3004.7	2959.5	2965.9	2988.6
15°	2988.6	3007.9	3001.5	3037.0	3053.2	3004.7	3043.5	3004.7	2969.2	2949.8	2985.3
17.5°	2998.2	3027.3	3017.6	3043.5	3014.4	3049.9	3056.4	3040.2	2998.2	2982.1	2998.2
20°	3007.9	2998.2	3011.2	3056.4	3098.4	3062.9	3062.9	3053.2	3014.4	2991.8	2991.8
22.5°	3030.6	3014.4	3033.8	3069.3	3082.3	3137.2	3088.7	3066.1	3001.5	2943.3	2998.2
25°	3075.8	3085.5	3098.4	3085.5	3156.6	3150.1	3143.6	3127.5	3027.3	3030.6	3020.9
27.5°	3163.0	3108.1	3124.3	3201.8	3211.5	3237.3	3205.0	3234.1	3127.5	3130.7	3066.1
30°	3269.6	3211.5	3263.2	3331.0	3327.8	3376.3	3360.1	3366.6	3292.3	3250.3	3163.0
32.5°	3386.0	3379.5	3411.8	3453.8	3470.0	3495.8	3492.6	3492.6	3447.3	3337.5	3353.6
35°	3515.2	3560.4	3599.2	3644.4	3650.9	3683.2	3638.0	3644.4	3599.2	3518.4	3544.3
37.5°	3770.4	3767.2	3809.2	3864.1	3870.6	3844.7	3880.3	3864.1	3802.7	3747.8	3705.8
40°	4067.7	4003.0	4041.8	4171.1	4180.7	4135.5	4132.3	4129.1	4083.8	3964.3	3938.4
42.5°	4326.1	4410.1	4403.7	4445.7	4416.6	4394.0	4474.8	4429.5	4394.0	4268.0	4245.4
45°	4658.9	4684.8	4768.8	4904.5	4765.5	4765.5	4820.5	4784.9	4765.5	4671.8	4584.6
47.5°	5072.5	5095.1	5263.1	5272.8	5182.3	5120.9	5292.2	5298.6	5217.9	5146.8	5040.2
50°	5557.1	5566.8	5718.6	5873.7	5773.6	5657.3	5831.7	5899.6	5718.6	5621.7	5489.2
52.5°	6090.2	6061.1	6187.1	6477.9	6381.0	6345.4	6532.8	6549.0	6303.4	6151.6	6187.1
55°	6704.1	6665.3	7007.8	7204.8	7143.5	7078.8	7162.8	7201.6	7004.5	6755.8	6843.0
57.5°	7498.9	7518.2	7689.5	7883.3	7983.5	7999.6	8038.4	7999.6	7799.3	7547.3	7466.5
60°	8293.6	8351.8	8684.6	9049.7	9082.0	9366.3	9314.6	9120.7	8836.4	8477.8	8494.0
62.5°	8587.7	8539.2	9075.5	9967.2	10726.5	11246.7	11017.3	10329.1	9670.0	9017.4	9065.8
65°	7996.4	8115.9	8846.1	10241.9	11889.6	13947.7	12726.4	10823.4	9492.3	8649.0	8555.3
67.5°	6891.4	6981.9	7909.2	9382.4	12306.4	15608.3	13372.6	10125.5	8371.2	7279.2	7337.3
70°	4801.1	4846.3	5754.2	7686.2	11159.4	14729.5	12064.1	7776.7	5780.0	4607.2	4671.8
72.5°	1932.1	2041.9	2639.6	4629.8	8238.7	11191.7	8122.4	4080.6	2397.3	1783.4	1618.7
75°	714.0	717.3	843.3	1592.8	3912.6	7033.6	3663.8	1311.7	765.7	626.8	597.7
77.5°	413.6	410.3	439.4	575.1	1134.0	2746.2	1040.3	513.7	416.8	374.8	358.6
80°	258.5	255.2	300.5	381.2	497.6	752.8	439.4	319.9	281.1	242.3	242.3
82.5°	164.8	168.0	235.9	281.1	303.7	332.8	255.2	226.2	210.0	138.9	135.7
85°	106.6	96.9	164.8	187.4	168.0	148.6	142.2	119.5	109.8	67.8	74.3
87.5°	48.5	51.7	84.0	93.7	61.4	35.5	35.5	25.8	25.8	16.2	16.2
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)