

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: P481181

Luminaire Tested: **IFLD-M-SA4C-727-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481181
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-727-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

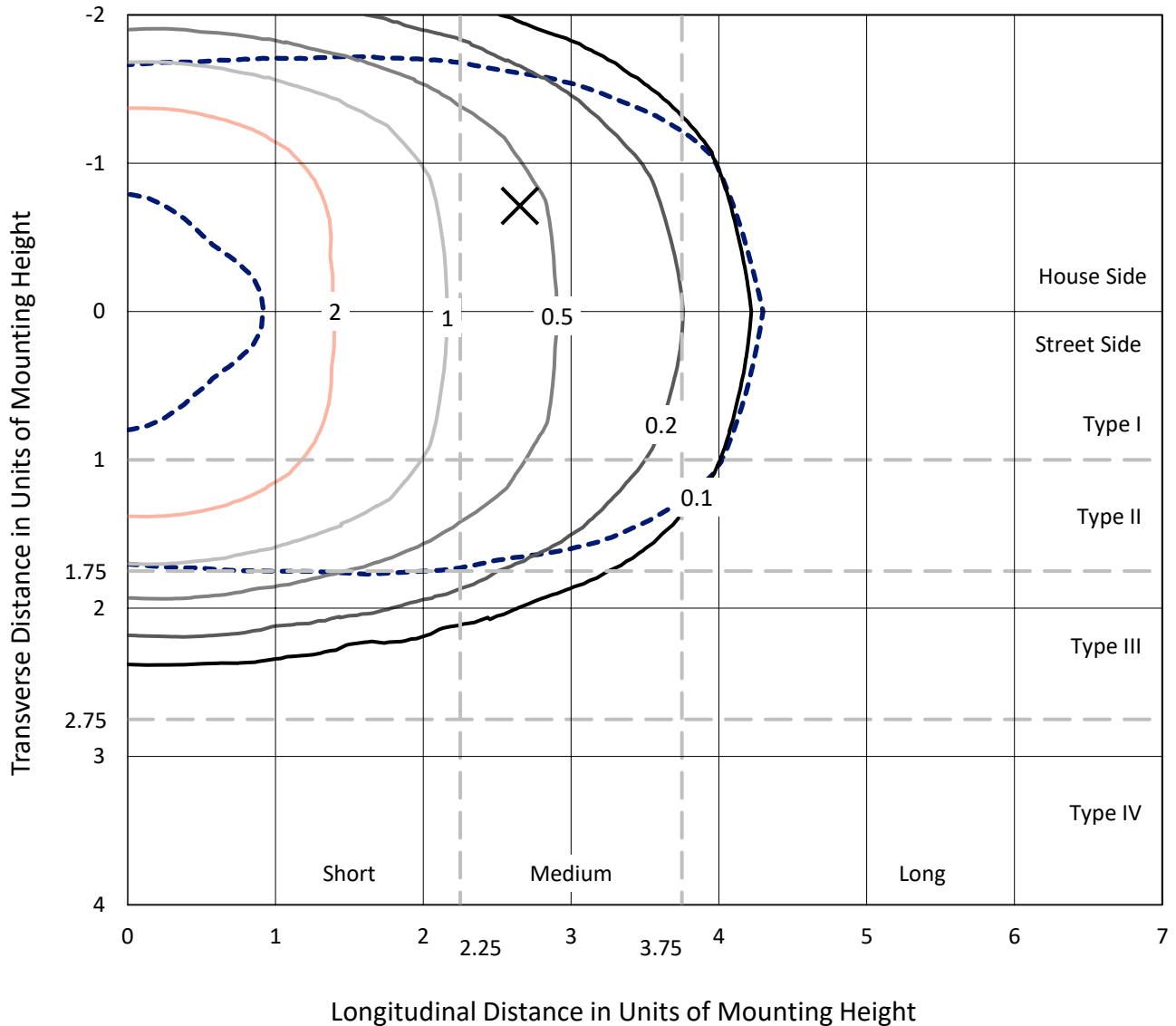
Lumens per Lamp: N/A
Luminaire Lumens: 24491.4 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

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

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Iso-Footcandle Lines of Horizontal Illumination

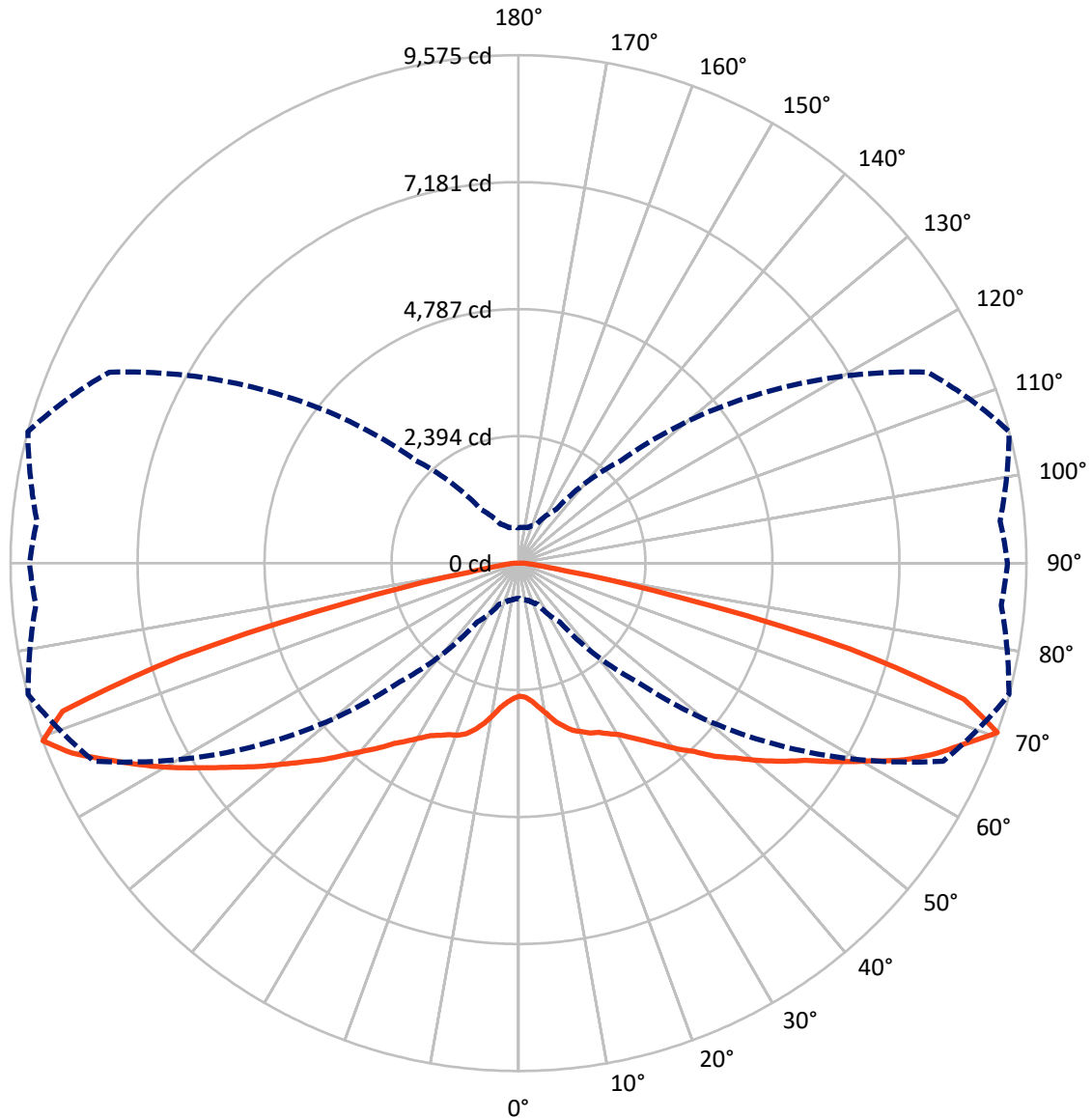
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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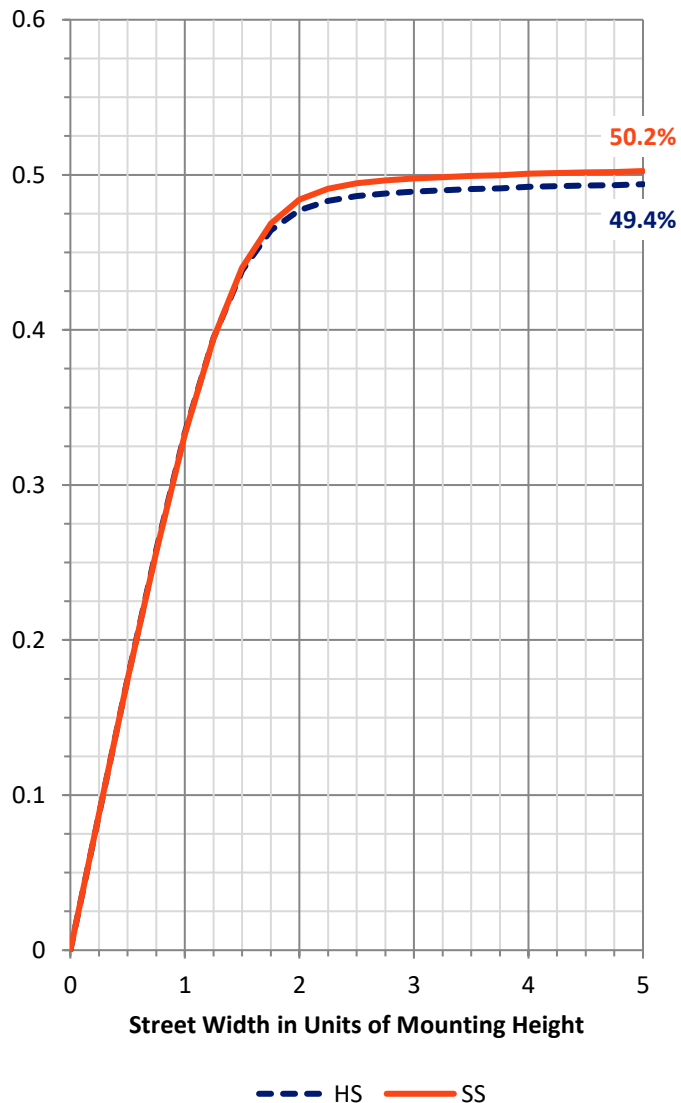
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12158.6	0.0	12158.6
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	12332.8	0.0	12332.8
	% Fixture	50.4	0.0	50.4
Total	Lumens	24491.4	0.0	24491.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.6	1.0
10°-20°	849.9	3.5
20°-30°	1645.8	6.7
30°-40°	2783.7	11.4
40°-50°	4440.8	18.1
50°-60°	6078.4	24.8
60°-70°	5729.3	23.4
70°-80°	2523.9	10.3
80°-90°	189.9	0.8
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°	24491.4	100.0
0°-180°	24491.4	100.0

Coefficient of Utilization

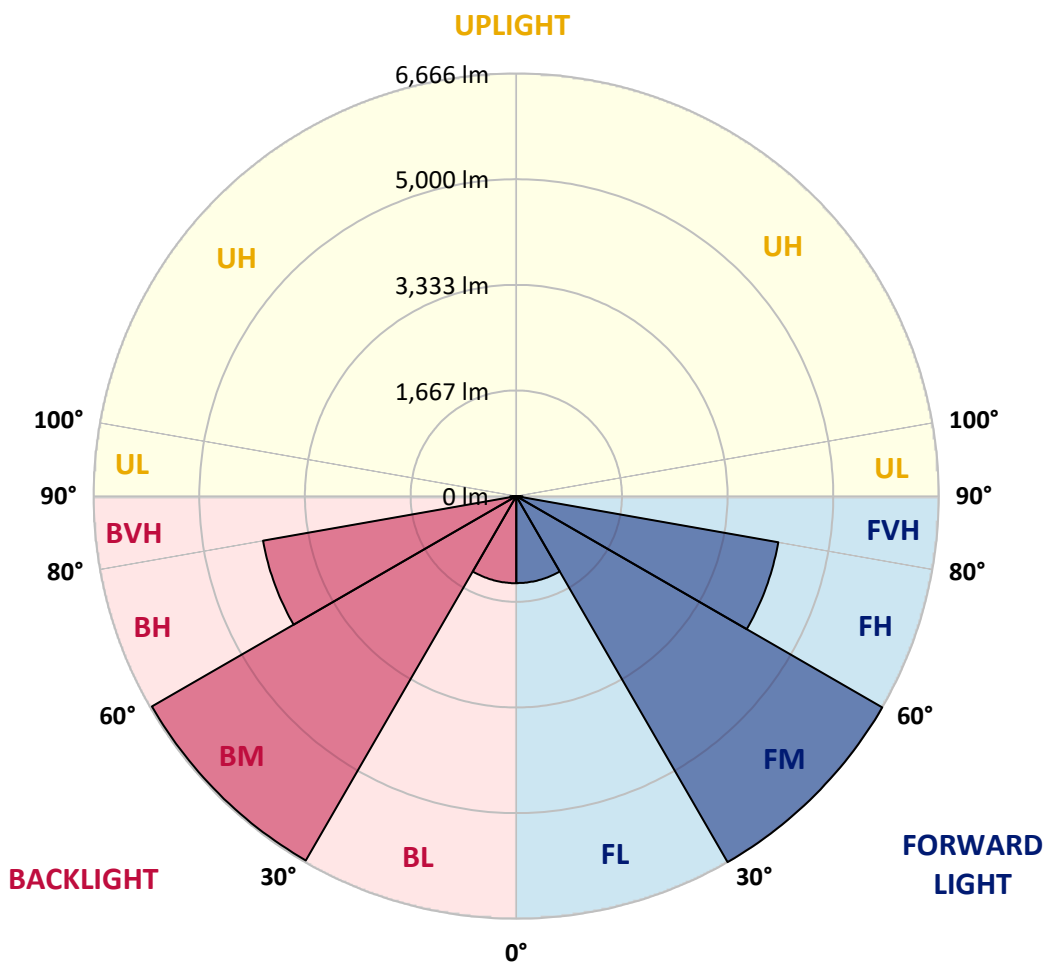


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1371.9	5.6			
FM (30°-60°)	6666.3	27.2			
FH (60°-80°)	4197.6	17.1			G2/5000
FVH (80°-90°)	97.0	0.4			G1/100
BL (0°-30°)	1373.4	5.6	B3/2500		
BM (30°-60°)	6636.5	27.1	B4/8500		
BH (60°-80°)	4055.7	16.6	B4/5000		G4/5000
BVH (80°-90°)	92.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2507.9	2507.9	2507.9	2507.9	2507.9	2507.9	2507.9	2507.9	2507.9	2507.9	2507.9
2.5°	2492.1	2492.1	2489.4	2502.6	2515.8	2521.1	2531.7	2534.3	2550.1	2536.9	2563.3
5°	2484.1	2481.5	2502.6	2534.3	2534.3	2568.6	2589.7	2618.8	2626.7	2642.5	2647.8
7.5°	2539.6	2534.3	2523.7	2558.1	2587.1	2639.9	2668.9	2719.1	2737.6	2758.7	2782.4
10°	2573.9	2573.9	2563.3	2624.0	2650.4	2721.7	2785.1	2835.2	2906.5	2930.3	2932.9
12.5°	2579.2	2587.1	2618.8	2698.0	2771.9	2864.3	2911.8	3006.8	3078.1	3123.0	3138.8
15°	2658.4	2642.5	2676.8	2785.1	2893.3	2975.2	3059.6	3128.3	3231.2	3289.3	3326.3
17.5°	2729.6	2713.8	2777.2	2906.5	3017.4	3144.1	3218.0	3291.9	3365.9	3418.7	3421.3
20°	2843.2	2856.4	2911.8	3051.7	3196.9	3307.8	3392.3	3405.5	3442.4	3519.0	3505.8
22.5°	2983.1	2972.5	3088.7	3241.8	3400.2	3492.6	3540.1	3505.8	3487.3	3569.1	3587.6
25°	3123.0	3154.7	3260.3	3402.8	3592.9	3717.0	3730.2	3635.1	3566.5	3595.5	3587.6
27.5°	3336.8	3342.1	3453.0	3621.9	3814.6	3922.9	3915.0	3780.3	3648.3	3651.0	3656.2
30°	3611.4	3585.0	3706.4	3859.5	4049.6	4147.3	4160.5	3967.8	3790.9	3738.1	3751.3
32.5°	3875.4	3907.0	4012.6	4186.9	4326.8	4382.2	4353.2	4181.6	3951.9	3880.6	3888.6
35°	4213.3	4208.0	4353.2	4501.0	4606.6	4617.2	4593.4	4342.6	4126.1	4033.7	3996.8
37.5°	4574.9	4622.4	4717.5	4838.9	4949.8	4955.1	4825.7	4625.1	4358.5	4205.3	4250.2
40°	4978.8	5031.6	5100.3	5277.1	5359.0	5274.5	5142.5	4870.6	4593.4	4458.8	4479.9
42.5°	5335.2	5359.0	5498.9	5707.4	5747.0	5710.1	5514.7	5184.7	4862.7	4714.8	4725.4
45°	5662.6	5694.2	5876.4	6063.8	6156.2	6092.9	5865.8	5551.7	5176.8	5050.1	4999.9
47.5°	5963.5	6026.9	6203.7	6396.4	6539.0	6544.3	6264.5	5884.3	5488.3	5322.0	5319.4
50°	6166.8	6259.2	6433.4	6652.5	6861.1	6942.9	6663.1	6253.9	5828.9	5652.0	5633.5
52.5°	6277.7	6372.7	6546.9	6887.5	7119.8	7246.5	7114.5	6599.7	6227.5	6042.7	6013.7
55°	6143.0	6206.4	6491.5	6969.3	7328.3	7536.9	7449.8	7077.5	6623.5	6473.0	6499.4
57.5°	5570.2	5702.2	6053.3	6649.9	7323.1	7835.2	7827.3	7529.0	7080.2	6937.6	6942.9
60°	4585.5	4696.4	5129.3	5963.5	7027.4	7956.6	8236.5	7967.2	7592.3	7426.0	7420.7
62.5°	3236.5	3376.4	3878.0	4788.8	6156.2	7787.7	8706.4	8518.9	8093.9	7972.5	8017.3
65°	1811.0	1895.4	2360.1	3183.7	4691.1	6858.4	8790.8	9091.8	8603.4	8418.6	8426.5
67.5°	968.8	1000.5	1217.0	1671.0	2869.6	5287.7	7938.1	9421.8	9155.1	8835.7	8785.5
70°	665.3	675.8	731.2	855.3	1356.9	3162.6	5987.3	8833.1	9569.6	9134.0	9218.5
72.5°	562.3	557.0	570.2	583.4	710.1	1415.0	3513.7	6797.7	9033.7	8870.0	8838.3
75°	488.4	485.7	491.0	477.8	493.7	623.0	1554.9	4237.0	6612.9	7381.1	7499.9
77.5°	403.9	406.5	409.2	396.0	390.7	411.8	625.7	1861.1	3255.0	3592.9	3875.4
80°	306.2	311.5	332.6	319.4	298.3	300.9	369.6	623.0	934.5	847.4	873.8
82.5°	208.6	211.2	256.1	240.2	224.4	203.3	237.6	322.1	364.3	277.2	242.9
85°	147.8	145.2	166.3	153.1	142.6	103.0	142.6	182.2	219.1	137.3	124.1
87.5°	34.3	34.3	68.6	55.4	52.8	42.2	55.4	71.3	95.0	60.7	55.4
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2507.9	2507.9	2507.9	2507.9	2507.9	2507.9	2507.9	2507.9	2507.9	2507.9
2.5°	2555.4	2531.7	2531.7	2526.4	2505.3	2500.0	2481.5	2486.8	2473.6	2460.4
5°	2645.2	2613.5	2613.5	2568.6	2526.4	2521.1	2500.0	2500.0	2478.9	2484.1
7.5°	2769.2	2740.2	2692.7	2653.1	2595.0	2571.3	2531.7	2526.4	2521.1	2510.5
10°	2917.1	2880.1	2832.6	2750.8	2703.2	2658.4	2618.8	2563.3	2550.1	2552.8
12.5°	3117.7	3059.6	2956.7	2885.4	2824.7	2766.6	2708.5	2626.7	2608.2	2616.1
15°	3260.3	3186.3	3083.4	3057.0	2975.2	2903.9	2808.8	2716.4	2684.8	2676.8
17.5°	3376.4	3315.7	3255.0	3215.4	3149.4	3062.3	2930.3	2824.7	2753.4	2745.5
20°	3471.5	3392.3	3379.1	3402.8	3321.0	3262.9	3101.9	2972.5	2877.5	2837.9
22.5°	3529.5	3479.4	3516.3	3537.5	3532.2	3434.5	3268.2	3117.7	2998.9	2962.0
25°	3592.9	3534.8	3666.8	3738.1	3756.6	3595.5	3466.2	3268.2	3152.0	3128.3
27.5°	3624.6	3645.7	3798.8	3949.3	3936.1	3812.0	3637.8	3460.9	3368.5	3326.3
30°	3717.0	3751.3	3983.6	4152.5	4155.2	4033.7	3901.8	3701.1	3598.2	3579.7
32.5°	3883.3	3925.5	4173.7	4353.2	4384.9	4292.5	4160.5	4036.4	3930.8	3888.6
35°	4010.0	4118.2	4398.1	4561.7	4646.2	4590.8	4516.8	4387.5	4276.6	4239.7
37.5°	4192.1	4342.6	4611.9	4833.6	4928.7	4923.4	4868.0	4728.0	4635.6	4604.0
40°	4453.5	4604.0	4849.5	5142.5	5319.4	5311.5	5279.8	5171.5	5034.3	5018.4
42.5°	4730.7	4854.8	5174.2	5509.4	5762.9	5736.5	5652.0	5525.3	5430.3	5409.1
45°	4999.9	5192.7	5488.3	5918.6	6108.7	6174.7	6074.4	5857.9	5749.7	5736.5
47.5°	5337.9	5491.0	5860.6	6246.0	6528.4	6539.0	6367.4	6166.8	5968.8	6011.0
50°	5638.8	5842.1	6216.9	6639.3	6977.2	6855.8	6636.7	6385.9	6243.3	6187.9
52.5°	5960.9	6209.0	6644.6	7074.9	7262.3	7140.9	6784.5	6504.7	6288.2	6264.5
55°	6430.8	6560.1	7130.3	7460.3	7521.0	7265.0	6739.6	6343.7	6063.8	5995.2
57.5°	6908.6	7059.1	7558.0	7843.1	7779.8	7196.3	6449.2	5836.8	5469.8	5372.2
60°	7391.7	7576.5	7996.2	8257.6	7930.2	6723.8	5628.2	4838.9	4411.3	4324.1
62.5°	7930.2	8170.5	8545.3	8637.7	7484.1	5789.3	4466.7	3492.6	3059.6	2914.4
65°	8408.0	8653.6	9115.5	8558.5	6536.4	4318.9	2888.0	1995.8	1676.3	1560.2
67.5°	8801.4	9078.6	9305.6	7573.8	4786.1	2529.0	1504.7	1050.7	931.9	889.6
70°	9112.9	9574.9	8513.6	5567.5	2734.9	1232.8	813.1	691.7	675.8	665.3
72.5°	8841.0	8780.3	6356.9	3212.7	1198.5	678.5	588.7	570.2	567.6	570.2
75°	7230.7	6449.2	3801.4	1396.5	601.9	491.0	488.4	480.5	493.7	493.7
77.5°	3508.4	3067.6	1589.2	599.3	396.0	385.4	398.6	398.6	398.6	398.6
80°	813.1	900.2	567.6	364.3	287.7	287.7	316.8	319.4	306.2	300.9
82.5°	277.2	369.6	311.5	229.7	190.1	213.8	240.2	245.5	203.3	205.9
85°	137.3	216.5	169.0	132.0	97.7	132.0	155.8	163.7	139.9	134.6
87.5°	63.4	95.0	63.4	44.9	34.3	47.5	44.9	37.0	21.1	21.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)