

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: P481259

Luminaire Tested: **IFLD-M-SA4C-735-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481259
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-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

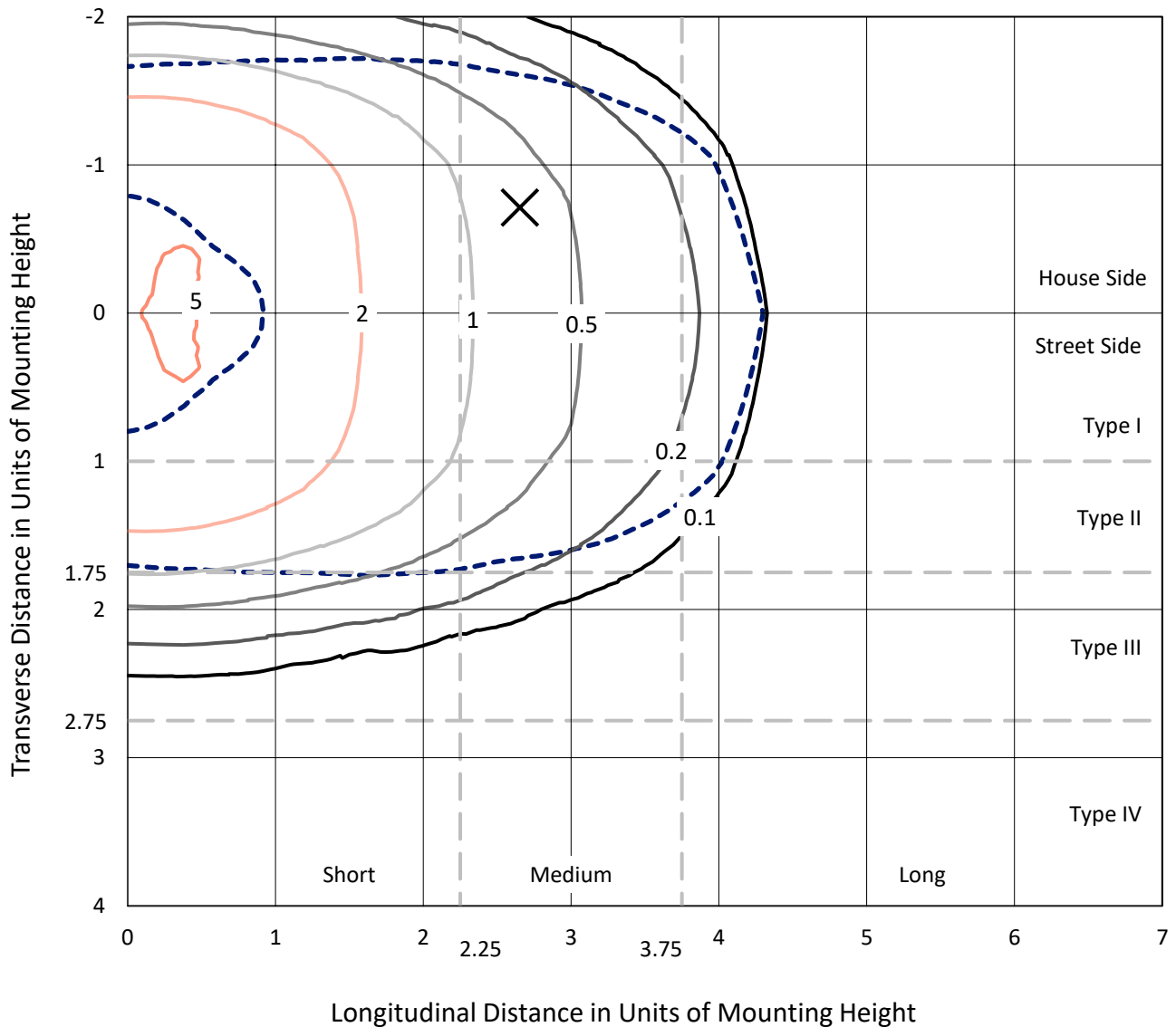
Lumens per Lamp: N/A
Luminaire Lumens: 28884.2 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

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

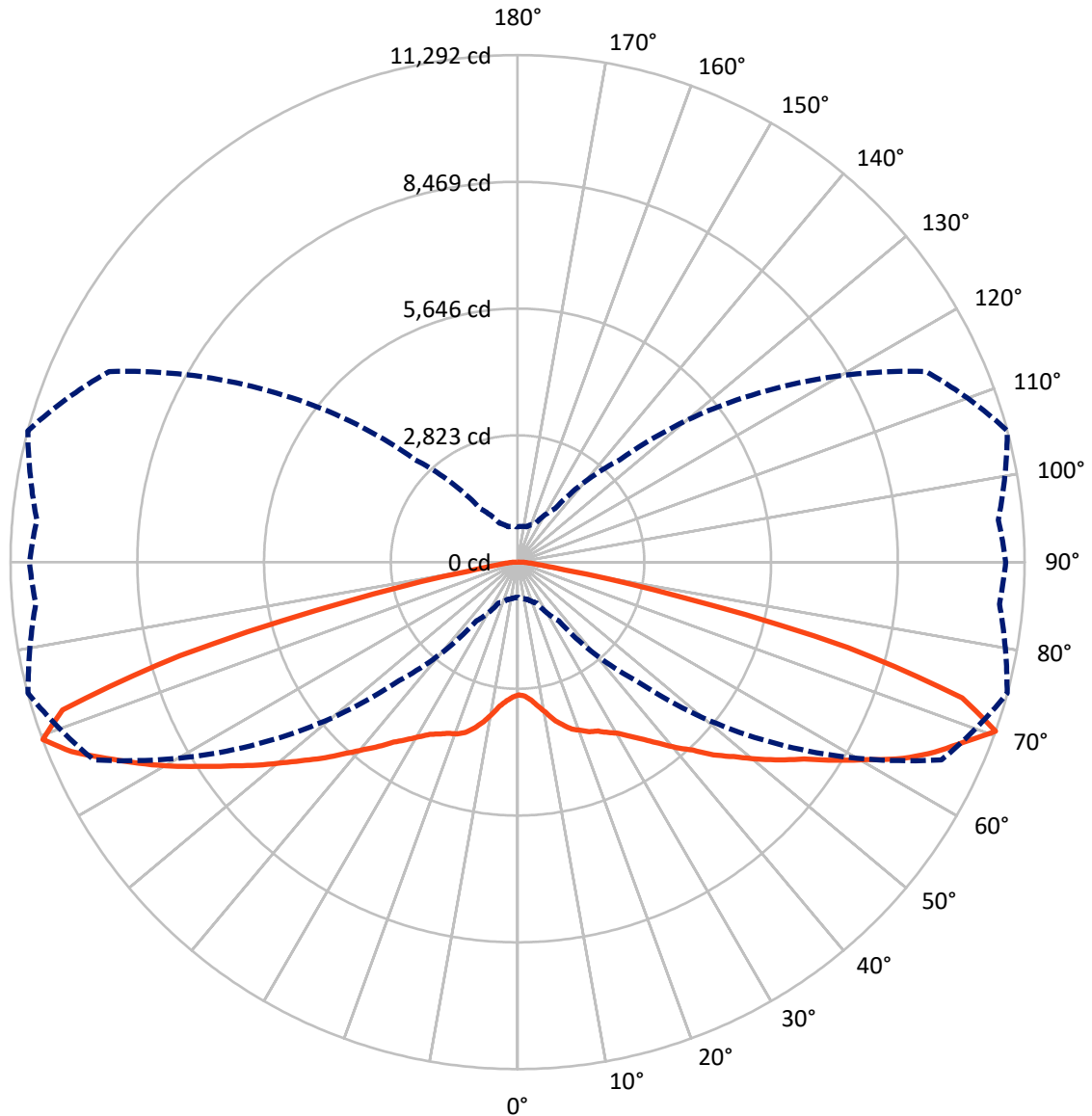
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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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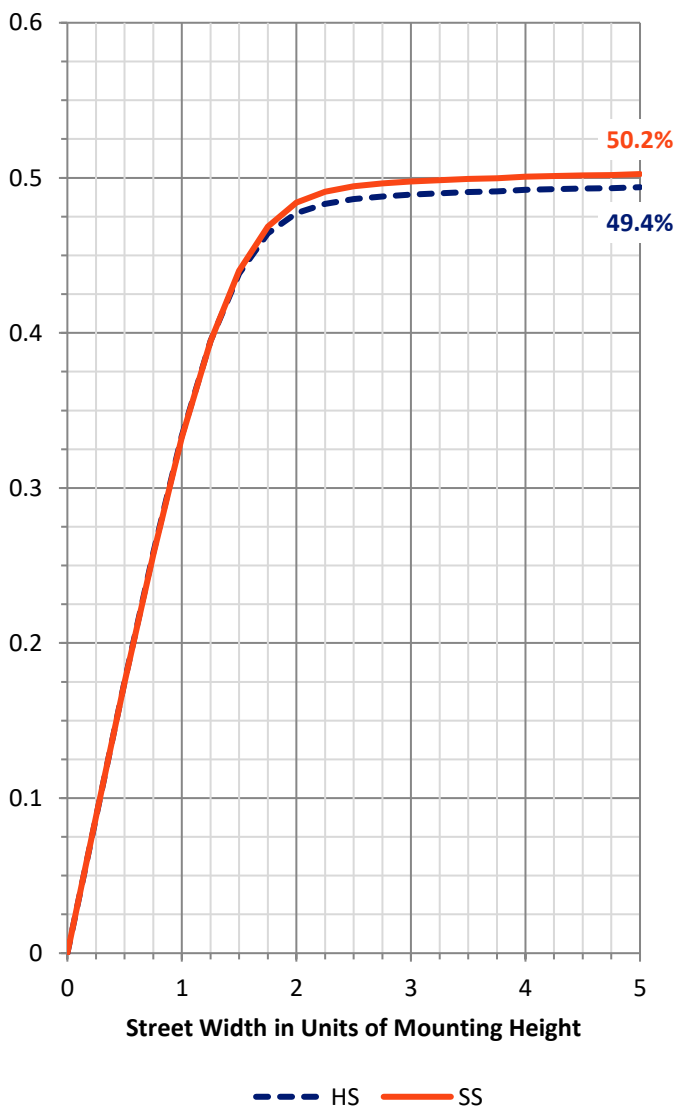
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14339.4	0.0	14339.4
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	14544.8	0.0	14544.8
	% Fixture	50.4	0.0	50.4
Total	Lumens	28884.2	0.0	28884.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.4	1.0
10°-20°	1002.4	3.5
20°-30°	1940.9	6.7
30°-40°	3282.9	11.4
40°-50°	5237.3	18.1
50°-60°	7168.7	24.8
60°-70°	6757.0	23.4
70°-80°	2976.6	10.3
80°-90°	224.0	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°	28884.2	100.0
0°-180°	28884.2	100.0



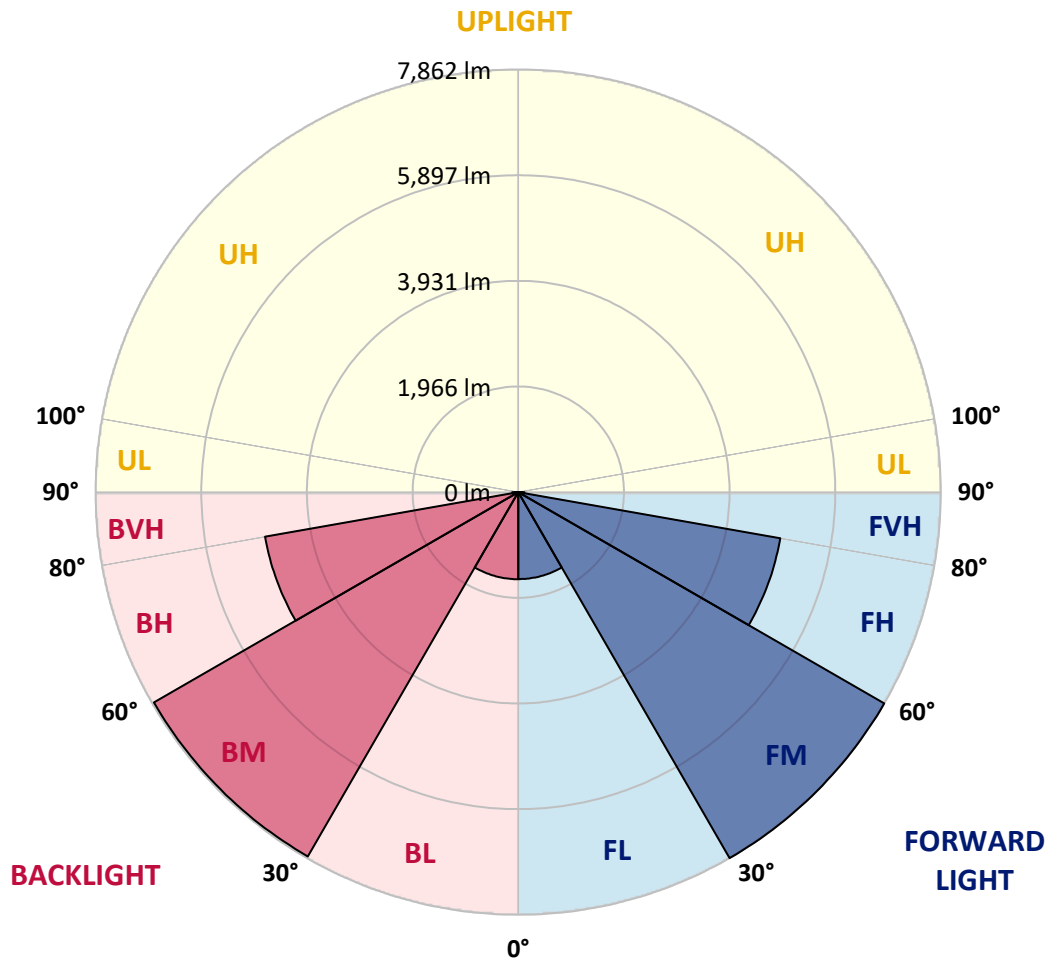
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1618.0	5.6			
FM (30°-60°)	7862.0	27.2			
FH (60°-80°)	4950.4	17.1			G2/5000
FVH (80°-90°)	114.4	0.4			G2/225
BL (0°-30°)	1619.7	5.6	B3/2500		
BM (30°-60°)	7826.9	27.1	B4/8500		
BH (60°-80°)	4783.2	16.6	B4/5000		G4/5000
BVH (80°-90°)	109.6	0.4			G2/225
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°	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7
2.5°	2939.0	2939.0	2935.9	2951.5	2967.1	2973.3	2985.7	2988.8	3007.5	2992.0	3023.1
5°	2929.7	2926.6	2951.5	2988.8	2988.8	3029.3	3054.2	3088.5	3097.8	3116.5	3122.7
7.5°	2995.1	2988.8	2976.4	3016.9	3051.1	3113.4	3147.6	3206.8	3228.6	3253.5	3281.5
10°	3035.5	3035.5	3023.1	3094.7	3125.8	3209.9	3284.6	3343.8	3427.8	3455.9	3459.0
12.5°	3041.8	3051.1	3088.5	3181.9	3269.1	3378.0	3434.1	3546.1	3630.2	3683.1	3701.8
15°	3135.2	3116.5	3157.0	3284.6	3412.3	3508.8	3608.4	3689.4	3810.8	3879.3	3922.9
17.5°	3219.2	3200.6	3275.3	3427.8	3558.6	3708.0	3795.2	3882.4	3969.6	4031.8	4034.9
20°	3353.1	3368.7	3434.1	3599.1	3770.3	3901.1	4000.7	4016.3	4059.9	4150.1	4134.6
22.5°	3518.1	3505.7	3642.7	3823.2	4010.0	4119.0	4175.0	4134.6	4112.8	4209.3	4231.1
25°	3683.1	3720.5	3845.0	4013.2	4237.3	4383.6	4399.2	4287.1	4206.2	4240.4	4231.1
27.5°	3935.3	3941.5	4072.3	4271.6	4498.8	4626.5	4617.1	4458.4	4302.7	4305.8	4312.0
30°	4259.1	4228.0	4371.2	4551.8	4775.9	4891.1	4906.7	4679.4	4470.8	4408.5	4424.1
32.5°	4570.4	4607.8	4732.3	4937.8	5102.8	5168.2	5134.0	4931.6	4660.7	4576.7	4586.0
35°	4969.0	4962.7	5134.0	5308.3	5432.9	5445.3	5417.3	5121.5	4866.2	4757.2	4713.7
37.5°	5395.5	5451.5	5563.6	5706.8	5837.6	5843.8	5691.3	5454.6	5140.2	4959.6	5012.5
40°	5871.8	5934.1	6015.1	6223.7	6320.2	6220.5	6064.9	5744.2	5417.3	5258.5	5283.4
42.5°	6292.1	6320.2	6485.2	6731.1	6777.8	6734.2	6503.9	6114.7	5734.9	5560.5	5573.0
45°	6678.2	6715.6	6930.4	7151.4	7260.4	7185.7	6917.9	6547.4	6105.3	5955.9	5896.7
47.5°	7033.1	7107.9	7316.4	7543.7	7711.8	7718.1	7388.1	6939.7	6472.7	6276.6	6273.5
50°	7272.9	7381.8	7587.3	7845.7	8091.7	8188.2	7858.2	7375.6	6874.3	6665.8	6644.0
52.5°	7403.6	7515.7	7721.2	8122.8	8396.8	8546.2	8390.6	7783.5	7344.5	7126.5	7092.3
55°	7244.8	7319.6	7655.8	8219.3	8642.8	8888.7	8786.0	8347.0	7811.5	7634.0	7665.1
57.5°	6569.2	6724.9	7139.0	7842.6	8636.5	9240.5	9231.2	8879.4	8350.1	8182.0	8188.2
60°	5407.9	5538.7	6049.3	7033.1	8287.8	9383.7	9713.8	9396.2	8954.1	8757.9	8751.7
62.5°	3817.0	3982.0	4573.6	5647.7	7260.4	9184.5	10267.9	10046.9	9545.6	9402.4	9455.3
65°	2135.8	2235.4	2783.4	3754.7	5532.5	8088.6	10367.6	10722.5	10146.5	9928.6	9937.9
67.5°	1142.6	1180.0	1435.3	1970.8	3384.2	6236.1	9361.9	11111.7	10797.2	10420.5	10361.3
70°	784.6	797.0	862.4	1008.7	1600.3	3729.8	7061.2	10417.4	11286.0	10772.3	10871.9
72.5°	663.2	656.9	672.5	688.1	837.5	1668.8	4143.9	8017.0	10654.0	10461.0	10423.6
75°	576.0	572.9	579.1	563.5	582.2	734.8	1833.8	4997.0	7799.0	8705.0	8845.1
77.5°	476.3	479.5	482.6	467.0	460.8	485.7	737.9	2194.9	3838.8	4237.3	4570.4
80°	361.2	367.4	392.3	376.7	351.8	354.9	435.9	734.8	1102.1	999.4	1030.5
82.5°	246.0	249.1	302.0	283.3	264.6	239.7	280.2	379.8	429.6	326.9	286.4
85°	174.3	171.2	196.1	180.6	168.1	121.4	168.1	214.8	258.4	161.9	146.3
87.5°	40.5	40.5	80.9	65.4	62.3	49.8	65.4	84.1	112.1	71.6	65.4
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°	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7
2.5°	3013.8	2985.7	2985.7	2979.5	2954.6	2948.4	2926.6	2932.8	2917.2	2901.7
5°	3119.6	3082.2	3082.2	3029.3	2979.5	2973.3	2948.4	2948.4	2923.5	2929.7
7.5°	3265.9	3231.7	3175.7	3128.9	3060.5	3032.4	2985.7	2979.5	2973.3	2960.8
10°	3440.3	3396.7	3340.7	3244.1	3188.1	3135.2	3088.5	3023.1	3007.5	3010.6
12.5°	3676.9	3608.4	3487.0	3402.9	3331.3	3262.8	3194.3	3097.8	3076.0	3085.4
15°	3845.0	3757.9	3636.4	3605.3	3508.8	3424.7	3312.6	3203.7	3166.3	3157.0
17.5°	3982.0	3910.4	3838.8	3792.1	3714.3	3611.5	3455.9	3331.3	3247.3	3237.9
20°	4094.1	4000.7	3985.1	4013.2	3916.6	3848.1	3658.2	3505.7	3393.6	3346.9
22.5°	4162.6	4103.4	4147.0	4171.9	4165.7	4050.5	3854.4	3676.9	3536.8	3493.2
25°	4237.3	4168.8	4324.5	4408.5	4430.3	4240.4	4087.9	3854.4	3717.4	3689.4
27.5°	4274.7	4299.6	4480.2	4657.6	4642.1	4495.7	4290.2	4081.6	3972.7	3922.9
30°	4383.6	4424.1	4698.1	4897.4	4900.5	4757.2	4601.6	4365.0	4243.5	4221.7
32.5°	4579.8	4629.6	4922.3	5134.0	5171.3	5062.4	4906.7	4760.4	4635.8	4586.0
35°	4729.2	4856.9	5186.9	5379.9	5479.6	5414.2	5327.0	5174.4	5043.7	5000.1
37.5°	4944.1	5121.5	5439.1	5700.6	5812.7	5806.5	5741.1	5576.1	5467.1	5429.7
40°	5252.3	5429.7	5719.3	6064.9	6273.5	6264.1	6226.8	6099.1	5937.2	5918.5
42.5°	5579.2	5725.5	6102.2	6497.6	6796.5	6765.4	6665.8	6516.3	6404.2	6379.3
45°	5896.7	6124.0	6472.7	6980.2	7204.4	7282.2	7163.9	6908.6	6780.9	6765.4
47.5°	6295.3	6475.8	6911.7	7366.3	7699.4	7711.8	7509.5	7272.9	7039.4	7089.2
50°	6650.2	6889.9	7332.0	7830.2	8228.7	8085.5	7827.0	7531.3	7363.1	7297.8
52.5°	7030.0	7322.7	7836.4	8343.9	8564.9	8421.7	8001.4	7671.4	7416.1	7388.1
55°	7584.2	7736.8	8409.2	8798.4	8870.0	8568.0	7948.5	7481.5	7151.4	7070.5
57.5°	8147.7	8325.2	8913.6	9249.9	9175.1	8487.1	7606.0	6883.7	6450.9	6335.7
60°	8717.5	8935.4	9430.4	9738.7	9352.6	7929.8	6637.7	5706.8	5202.5	5099.7
62.5°	9352.6	9635.9	10078.0	10187.0	8826.4	6827.6	5267.8	4119.0	3608.4	3437.2
65°	9916.1	10205.7	10750.5	10093.6	7708.7	5093.5	3406.0	2353.7	1977.0	1840.0
67.5°	10380.0	10706.9	10974.7	8932.3	5644.6	2982.6	1774.6	1239.1	1099.0	1049.2
70°	10747.4	11292.2	10040.7	6566.1	3225.5	1453.9	958.9	815.7	797.0	784.6
72.5°	10426.7	10355.1	7497.0	3789.0	1413.5	800.1	694.3	672.5	669.4	672.5
75°	8527.6	7606.0	4483.3	1647.0	709.9	579.1	576.0	566.6	582.2	582.2
77.5°	4137.7	3617.8	1874.3	706.7	467.0	454.6	470.1	470.1	470.1	470.1
80°	958.9	1061.7	669.4	429.6	339.4	339.4	373.6	376.7	361.2	354.9
82.5°	326.9	435.9	367.4	270.9	224.2	252.2	283.3	289.5	239.7	242.8
85°	161.9	255.3	199.3	155.7	115.2	155.7	183.7	193.0	165.0	158.8
87.5°	74.7	112.1	74.7	52.9	40.5	56.0	52.9	43.6	24.9	24.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)