

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: P479077

Luminaire Tested: **IFLD-M-SA4E-827-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479077
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-827-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

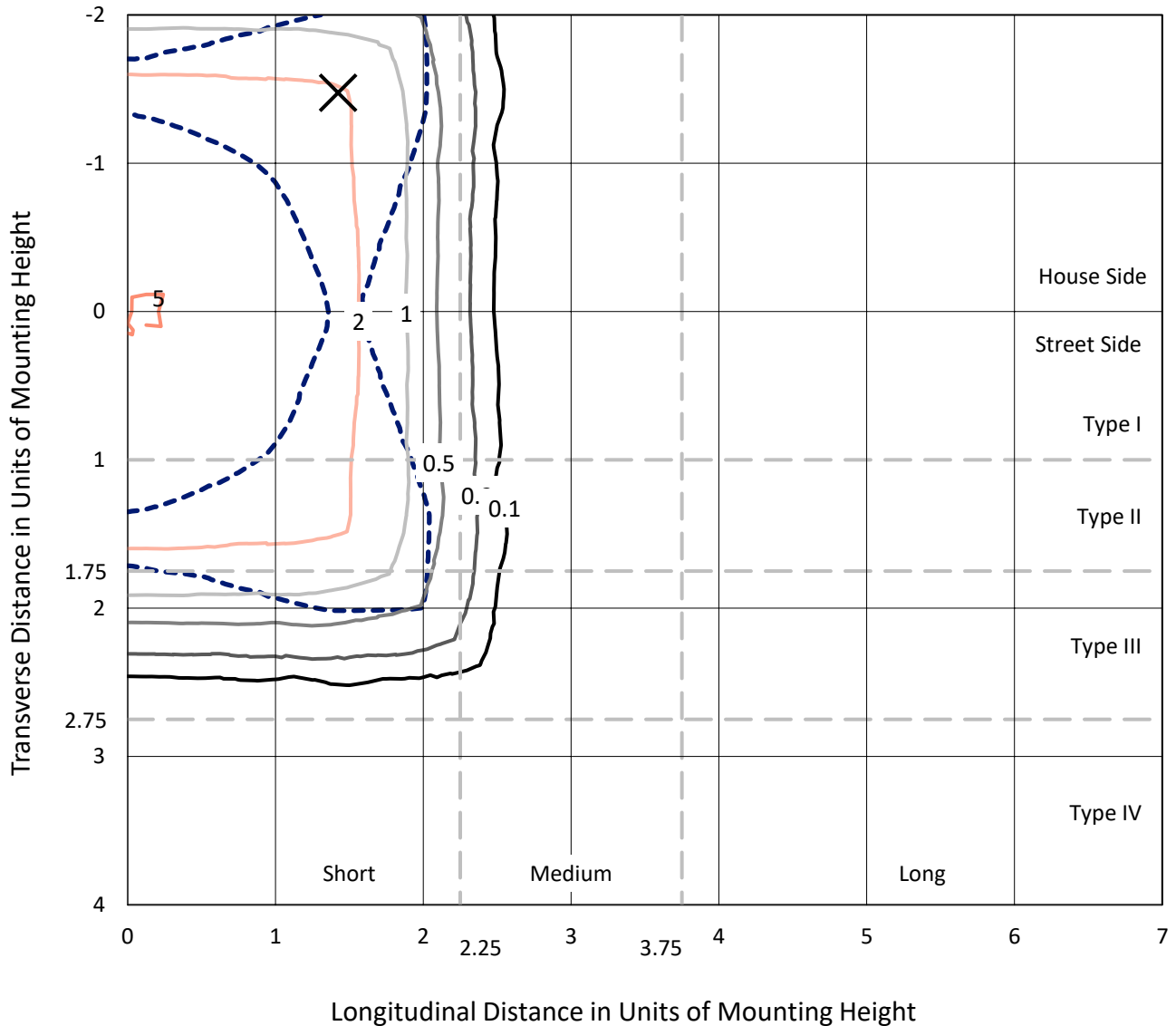
Lumens per Lamp: N/A
Luminaire Lumens: 26544.1 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 314.8
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

REPORT NUMBER: P479077
 CATALOG NUMBER: IFLD-M-SA4E-827-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

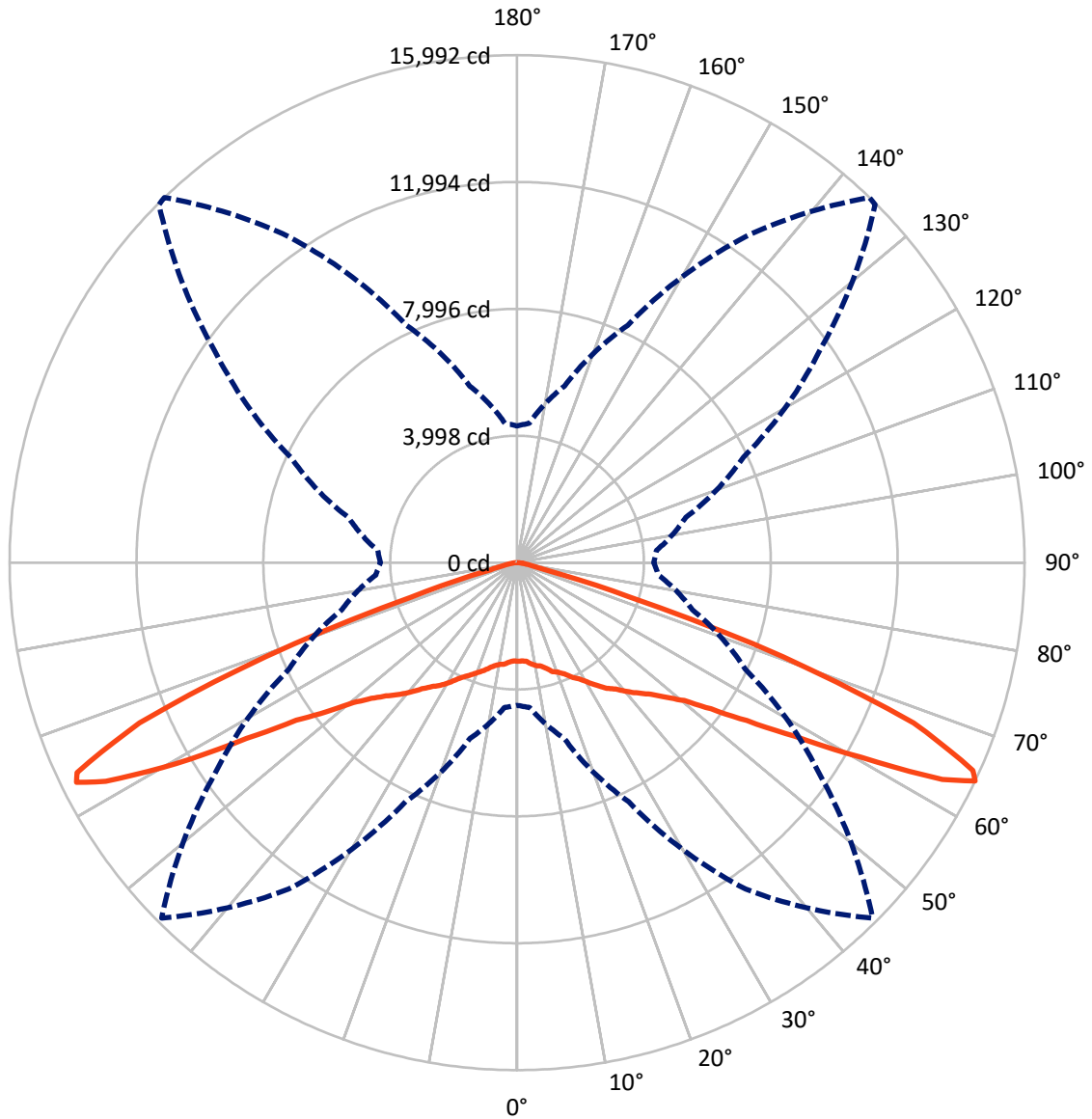
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type V - Short - N/A

REPORT NUMBER: P479077
CATALOG NUMBER: IFLD-M-SA4E-827-U-5NQ

Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P479077

CATALOG NUMBER: IFLD-M-SA4E-827-U-5NQ

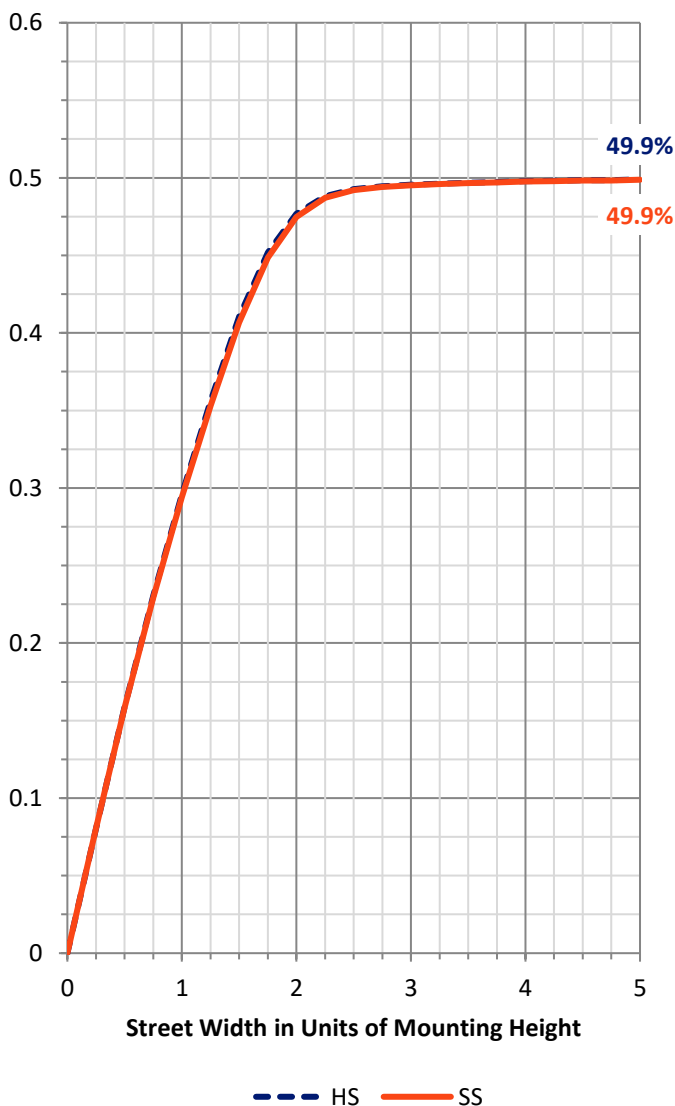
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13284.7	0.0	13284.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13259.4	0.0	13259.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	26544.1	0.0	26544.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.4	1.2
10°-20°	984.2	3.7
20°-30°	1849.7	7.0
30°-40°	3050.4	11.5
40°-50°	4770.7	18.0
50°-60°	7708.3	29.0
60°-70°	6940.8	26.1
70°-80°	822.2	3.1
80°-90°	112.5	0.4
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°	26544.1	100.0
0°-180°	26544.1	100.0

Coefficient of Utilization



REPORT NUMBER: P479077

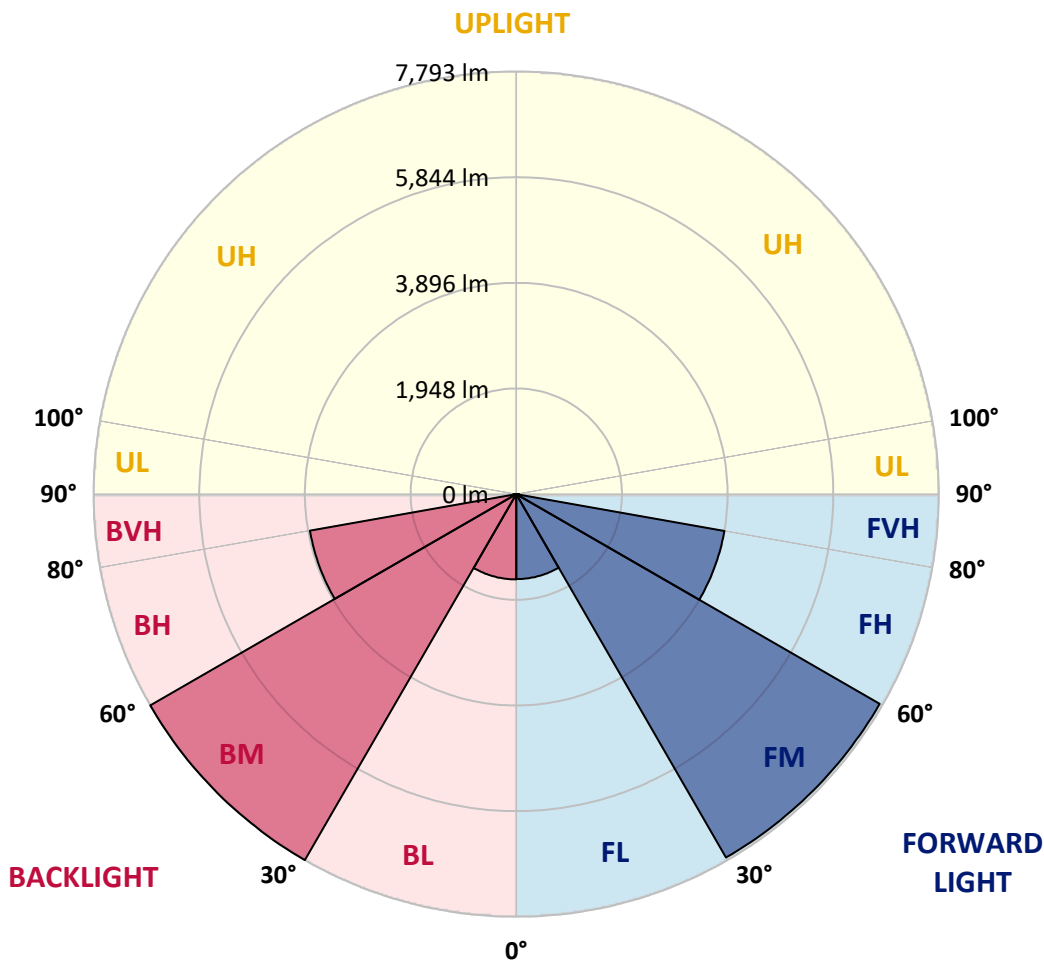
CATALOG NUMBER: IFLD-M-SA4E-827-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1566.6	5.9			
FM (30°-60°)	7736.8	29.1			
FH (60°-80°)	3898.3	14.7			G2/5000
FVH (80°-90°)	57.7	0.2			G1/100
BL (0°-30°)	1572.6	5.9	B3/2500		
BM (30°-60°)	7792.6	29.4	B4/8500		
BH (60°-80°)	3864.7	14.6	B4/5000		G2/5000
BVH (80°-90°)	54.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





REPORT NUMBER: P479077
 CATALOG NUMBER: IFLD-M-SA4E-827-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3107.8	3107.8	3107.8	3107.8	3107.8	3107.8	3107.8	3107.8	3107.8	3107.8	3107.8
2.5°	3071.2	3077.3	3132.1	3110.8	3129.1	3095.6	3119.9	3171.7	3110.8	3156.5	3171.7
5°	3104.7	3113.9	3113.9	3135.2	3147.3	3141.2	3156.5	3135.2	3193.0	3168.6	3205.2
7.5°	3226.5	3211.3	3186.9	3205.2	3208.2	3223.4	3238.7	3266.0	3256.9	3235.6	3272.1
10°	3247.8	3235.6	3272.1	3275.2	3260.0	3247.8	3263.0	3263.0	3290.4	3296.5	3296.5
12.5°	3284.3	3296.5	3293.4	3317.8	3320.8	3311.7	3336.1	3381.7	3369.5	3378.7	3357.4
15°	3424.3	3409.1	3406.1	3430.4	3470.0	3412.2	3454.8	3451.7	3439.5	3457.8	3409.1
17.5°	3546.1	3497.4	3518.7	3558.3	3543.0	3555.2	3610.0	3561.3	3573.5	3552.2	3536.9
20°	3652.6	3613.0	3616.1	3631.3	3631.3	3667.8	3689.1	3670.9	3658.7	3655.7	3661.7
22.5°	3771.3	3725.7	3728.7	3792.6	3813.9	3801.8	3786.5	3817.0	3823.1	3798.7	3826.1
25°	3859.6	3908.3	3923.5	3954.0	3908.3	3941.8	3929.6	3987.4	4024.0	3975.3	4008.7
27.5°	4090.9	4069.6	4109.2	4106.1	4142.7	4109.2	4130.5	4148.8	4164.0	4167.0	4151.8
30°	4297.9	4307.0	4267.5	4374.0	4288.8	4343.6	4380.1	4389.2	4407.5	4407.5	4361.8
32.5°	4517.1	4498.8	4562.7	4538.4	4523.2	4565.8	4526.2	4651.0	4577.9	4620.6	4568.8
35°	4763.6	4763.6	4788.0	4854.9	4763.6	4736.2	4809.3	4861.0	4861.0	4784.9	4803.2
37.5°	5040.6	5016.3	5046.7	5131.9	5061.9	4970.6	5104.5	5125.8	5110.6	5089.3	5052.8
40°	5235.4	5229.3	5290.2	5402.8	5302.4	5284.1	5308.5	5366.3	5384.6	5405.9	5357.2
42.5°	5564.2	5591.5	5768.1	5740.7	5658.5	5594.6	5588.5	5804.6	5752.9	5698.1	5670.7
45°	6051.2	6026.8	6118.1	6121.2	6014.6	5874.6	5905.1	6102.9	6191.2	6069.4	6115.1
47.5°	6437.7	6449.9	6513.8	6644.7	6398.2	6252.1	6364.7	6684.3	6656.9	6611.2	6653.8
50°	6955.2	7010.0	7210.9	7165.2	6946.1	6766.5	7013.0	7314.4	7347.8	7180.4	7150.0
52.5°	7670.5	7755.7	7865.3	7901.8	7691.8	7627.9	7643.1	8017.5	7935.3	7774.0	7670.5
55°	8297.5	8337.1	8538.0	8839.3	8824.1	8516.7	8693.2	8833.2	8498.4	8166.6	8194.0
57.5°	8565.4	8583.6	9143.7	9746.4	10105.6	10175.6	9974.7	9502.9	8705.4	8066.2	8026.6
60°	7898.8	8072.3	8748.0	10108.6	11749.2	12558.9	11222.7	9579.0	8221.4	7445.2	7387.4
62.5°	6312.9	6322.1	7326.5	9390.3	12772.0	14893.5	11700.5	8863.7	6930.8	6051.2	5819.8
64°	4495.8	4581.0	5734.6	8312.7	12558.9	15843.2	11642.7	7929.2	5713.3	4465.3	4304.0
65°	3226.5	3345.2	4459.2	7217.0	12059.7	15730.6	11469.2	7125.6	4620.6	3409.1	3244.7
67.5°	1187.1	1235.8	1750.2	3610.0	8659.7	13405.1	9088.9	3917.4	2030.2	1445.8	1299.7
70°	550.9	554.0	648.3	1193.2	3786.5	8964.1	4337.5	1470.2	764.0	605.7	563.1
72.5°	404.8	414.0	453.5	550.9	1114.0	3795.7	1424.5	602.7	447.4	395.7	386.6
75°	328.7	334.8	347.0	398.7	514.4	1016.6	578.3	417.0	356.1	319.6	307.4
77.5°	252.6	252.6	280.0	304.4	340.9	474.8	383.5	331.8	289.2	252.6	243.5
80°	182.6	185.7	219.2	237.4	231.3	313.5	277.0	273.9	237.4	197.9	182.6
82.5°	106.5	115.7	158.3	170.5	164.4	185.7	200.9	213.1	185.7	137.0	124.8
85°	60.9	63.9	91.3	94.4	94.4	88.3	115.7	127.8	124.8	85.2	76.1
87.5°	18.3	18.3	24.4	24.4	27.4	30.4	45.7	54.8	60.9	42.6	39.6
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: P479077
 CATALOG NUMBER: IFLD-M-SA4E-827-U-5NQ

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	3107.8	3107.8	3107.8	3107.8	3107.8	3107.8	3107.8	3107.8	3107.8	3107.8	3107.8
2.5°	3156.5	3110.8	3113.9	3126.0	3086.5	3101.7	3147.3	3113.9	3104.7	3086.5	3077.3
5°	3141.2	3190.0	3171.7	3177.8	3168.6	3126.0	3119.9	3147.3	3162.6	3135.2	3190.0
7.5°	3247.8	3226.5	3202.1	3211.3	3190.0	3226.5	3250.8	3196.0	3223.4	3208.2	3177.8
10°	3308.7	3269.1	3287.4	3281.3	3266.0	3302.6	3278.2	3272.1	3247.8	3214.3	3263.0
12.5°	3330.0	3375.6	3406.1	3354.3	3363.5	3345.2	3330.0	3330.0	3302.6	3293.4	3302.6
15°	3424.3	3463.9	3451.7	3491.3	3439.5	3457.8	3476.1	3430.4	3454.8	3387.8	3439.5
17.5°	3597.8	3564.3	3607.0	3555.2	3573.5	3610.0	3552.2	3552.2	3570.4	3533.9	3488.2
20°	3707.4	3692.2	3677.0	3680.0	3649.6	3683.1	3664.8	3655.7	3628.3	3640.4	3664.8
22.5°	3810.9	3789.6	3795.7	3804.8	3826.1	3810.9	3801.8	3810.9	3743.9	3804.8	3719.6
25°	3938.7	3996.6	3978.3	4017.9	3957.0	3996.6	3993.5	3935.7	3972.2	3947.9	3929.6
27.5°	4151.8	4121.4	4148.8	4100.1	4142.7	4145.7	4109.2	4206.6	4164.0	4157.9	4145.7
30°	4425.8	4404.4	4386.2	4358.8	4392.3	4364.9	4395.3	4404.4	4364.9	4334.4	4276.6
32.5°	4581.0	4638.8	4660.1	4593.2	4596.2	4611.4	4584.0	4556.6	4581.0	4590.1	4581.0
35°	4800.1	4854.9	4867.1	4815.4	4788.0	4864.1	4809.3	4900.6	4821.5	4824.5	4742.3
37.5°	5055.8	5071.0	5174.5	5116.7	5092.4	5055.8	5156.3	5144.1	5162.4	5016.3	5089.3
40°	5345.0	5399.8	5457.6	5311.5	5308.5	5342.0	5335.9	5405.9	5372.4	5351.1	5299.3
42.5°	5661.6	5777.2	5786.4	5688.9	5628.1	5622.0	5652.4	5807.7	5810.7	5670.7	5609.8
45°	6081.6	6209.4	6176.0	5987.2	5920.3	5911.1	6060.3	6127.3	6185.1	6130.3	6078.6
47.5°	6605.1	6690.4	6666.0	6492.5	6276.4	6337.3	6483.4	6693.4	6632.5	6559.5	6498.6
50°	7165.2	7265.7	7213.9	7040.4	6833.4	6833.4	7013.0	7280.9	7262.6	7119.6	7064.8
52.5°	7786.2	7932.3	8051.0	7804.4	7630.9	7658.3	7941.4	8038.8	7993.1	7892.7	7847.0
55°	8248.8	8528.9	8772.4	8784.5	8793.7	8790.6	8863.7	8961.1	8635.4	8474.1	8309.7
57.5°	8136.2	8665.8	9499.8	10066.0	10233.4	10321.7	10297.3	9846.8	9076.7	8547.1	8601.9
60°	7332.6	8197.1	9542.5	11359.6	12577.2	12455.4	12011.0	10230.4	8833.2	7938.4	7825.7
62.5°	5850.3	6891.3	8827.2	11724.9	15079.2	15042.7	12717.2	9344.6	7360.0	6227.7	6157.7
64°	4407.5	5503.3	7874.4	11630.5	15955.8	15992.4	12537.6	8254.9	5759.0	4407.5	4301.0
65°	3372.6	4389.2	6940.0	11435.7	15767.1	15788.4	12038.4	7128.7	4377.1	3129.1	3013.4
67.5°	1342.3	1868.9	3765.2	8671.9	13539.0	13481.2	8589.7	3448.7	1674.1	1089.7	1068.4
70°	572.2	712.3	1321.0	4109.2	9064.6	8897.2	3698.3	1120.1	620.9	520.5	517.5
72.5°	392.7	435.3	566.2	1269.3	3768.3	3680.0	1053.2	520.5	423.1	389.6	389.6
75°	316.6	347.0	410.9	532.7	998.4	961.9	496.1	383.5	337.9	313.5	310.5
77.5°	246.6	277.0	322.6	368.3	456.6	453.5	331.8	289.2	261.8	243.5	237.4
80°	194.8	225.2	255.7	261.8	298.3	292.2	225.2	228.3	213.1	176.5	173.5
82.5°	133.9	182.6	203.9	185.7	176.5	176.5	161.3	161.3	149.1	109.6	100.4
85°	82.2	121.8	127.8	109.6	82.2	82.2	88.3	85.2	79.1	57.8	54.8
87.5°	42.6	57.8	51.7	42.6	27.4	27.4	24.4	18.3	18.3	15.2	15.2
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)