

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: P478844

Luminaire Tested: **IFLD-L-SA7A-727-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478844
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-727-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

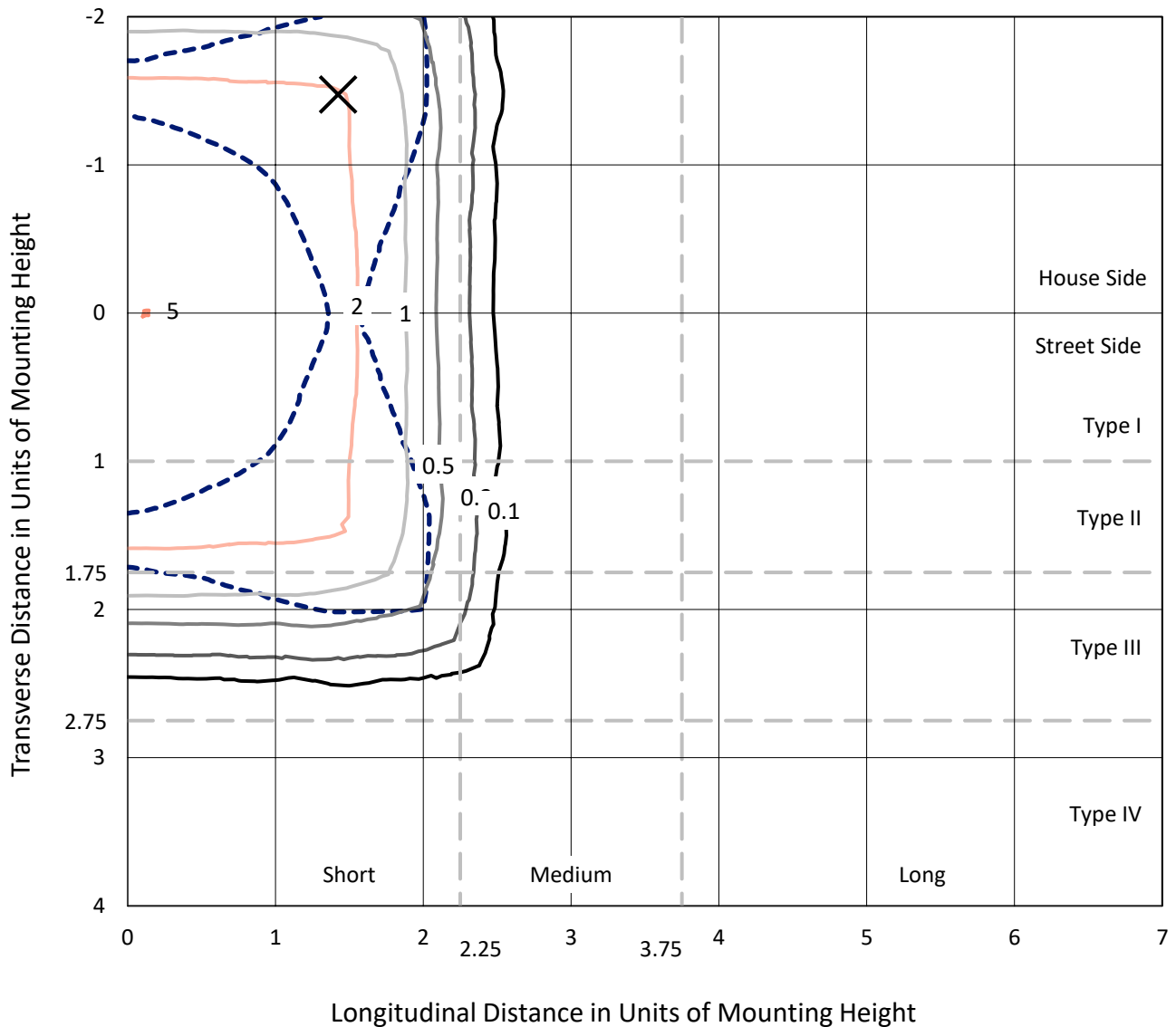
Lumens per Lamp: N/A
Luminaire Lumens: 26107.9 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 217.6
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

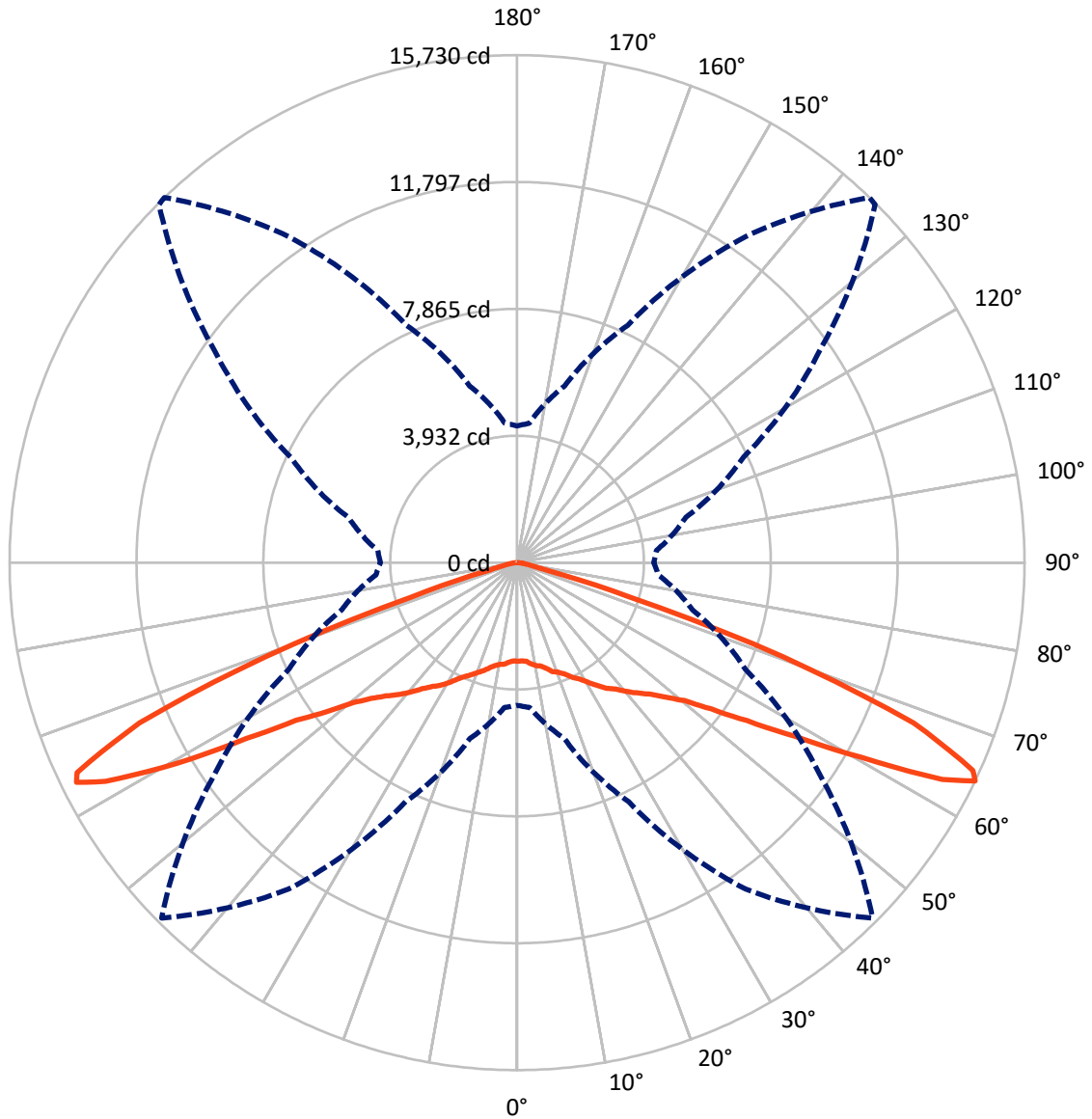
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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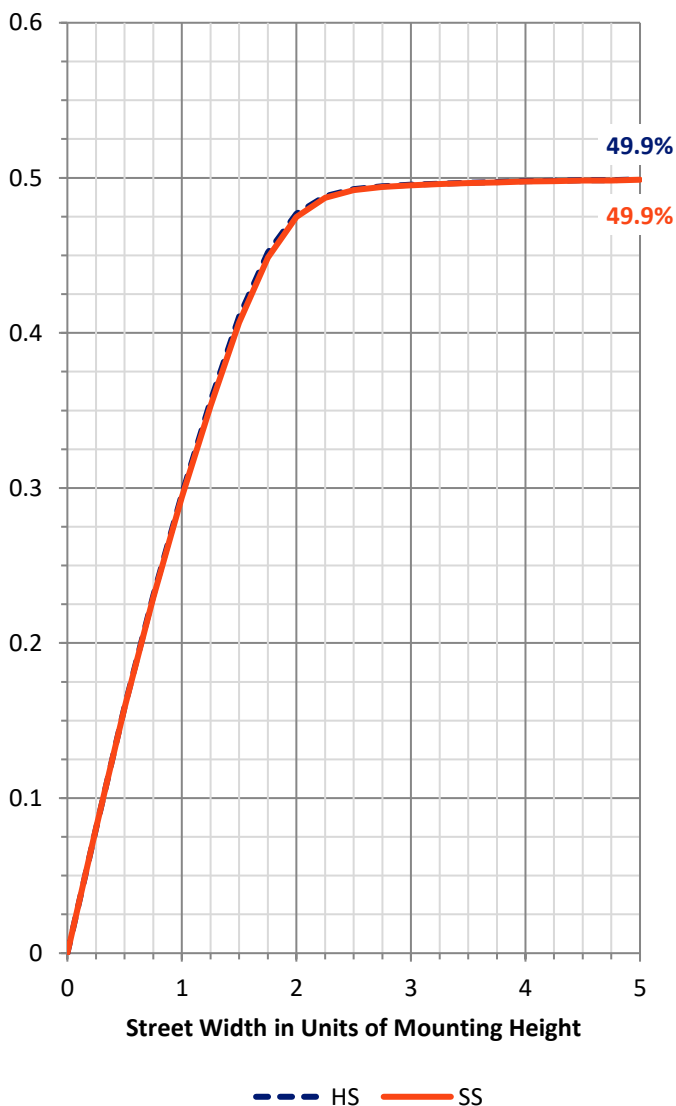
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13066.4	0.0	13066.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13041.5	0.0	13041.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	26107.9	0.0	26107.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.3	1.2
10°-20°	968.0	3.7
20°-30°	1819.3	7.0
30°-40°	3000.3	11.5
40°-50°	4692.3	18.0
50°-60°	7581.6	29.0
60°-70°	6826.7	26.1
70°-80°	808.7	3.1
80°-90°	110.7	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°	26107.9	100.0
0°-180°	26107.9	100.0

Coefficient of Utilization



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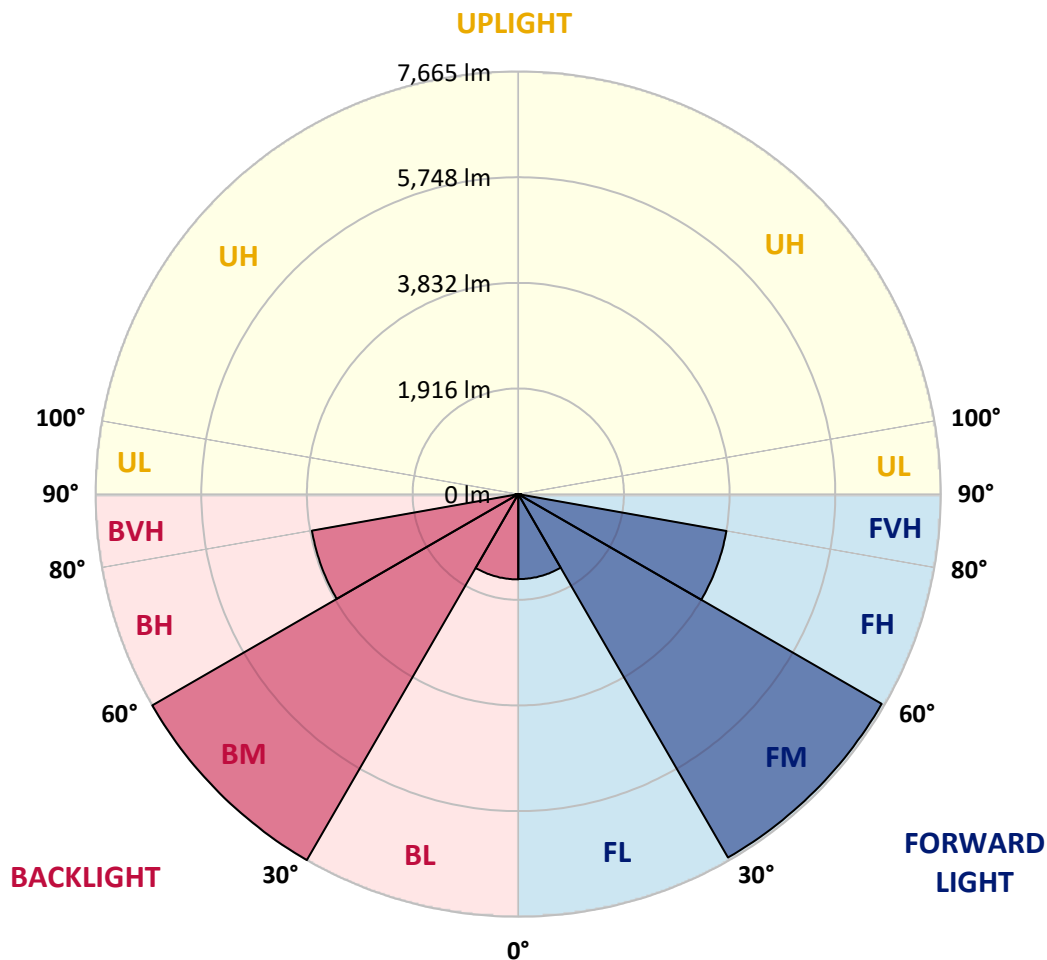
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1540.8	5.9			
FM (30°-60°)	7609.6	29.1			
FH (60°-80°)	3834.2	14.7			G2/5000
FVH (80°-90°)	56.8	0.2			G1/100
BL (0°-30°)	1546.8	5.9	B3/2500		
BM (30°-60°)	7664.5	29.4	B4/8500		
BH (60°-80°)	3801.1	14.6	B4/5000		G2/5000
BVH (80°-90°)	53.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3056.7	3056.7	3056.7	3056.7	3056.7	3056.7	3056.7	3056.7	3056.7	3056.7	3056.7
2.5°	3020.8	3026.8	3080.6	3059.7	3077.7	3044.7	3068.7	3119.6	3059.7	3104.6	3119.6
5°	3053.7	3062.7	3062.7	3083.6	3095.6	3089.6	3104.6	3083.6	3140.5	3116.6	3152.5
7.5°	3173.5	3158.5	3134.5	3152.5	3155.5	3170.5	3185.4	3212.4	3203.4	3182.4	3218.4
10°	3194.4	3182.4	3218.4	3221.4	3206.4	3194.4	3209.4	3209.4	3236.3	3242.3	3242.3
12.5°	3230.3	3242.3	3239.3	3263.3	3266.3	3257.3	3281.2	3326.1	3314.2	3323.1	3302.2
15°	3368.1	3353.1	3350.1	3374.0	3413.0	3356.1	3398.0	3395.0	3383.0	3401.0	3353.1
17.5°	3487.8	3439.9	3460.9	3499.8	3484.8	3496.8	3550.7	3502.8	3514.8	3493.8	3478.8
20°	3592.6	3553.7	3556.7	3571.6	3571.6	3607.6	3628.5	3610.6	3598.6	3595.6	3601.6
22.5°	3709.3	3664.4	3667.4	3730.3	3751.3	3739.3	3724.3	3754.3	3760.2	3736.3	3763.2
25°	3796.2	3844.1	3859.0	3889.0	3844.1	3877.0	3865.0	3921.9	3957.8	3909.9	3942.9
27.5°	4023.7	4002.7	4041.7	4038.7	4074.6	4041.7	4062.6	4080.6	4095.6	4098.5	4083.6
30°	4227.3	4236.3	4197.3	4302.1	4218.3	4272.2	4308.1	4317.1	4335.1	4335.1	4290.2
32.5°	4442.8	4424.9	4487.7	4463.8	4448.8	4490.7	4451.8	4574.6	4502.7	4544.6	4493.7
35°	4685.3	4685.3	4709.3	4775.2	4685.3	4658.4	4730.2	4781.1	4781.1	4706.3	4724.3
37.5°	4957.8	4933.8	4963.8	5047.6	4978.7	4888.9	5020.6	5041.6	5026.6	5005.7	4969.7
40°	5149.4	5143.4	5203.3	5314.0	5215.2	5197.3	5221.2	5278.1	5296.1	5317.0	5269.1
42.5°	5472.7	5499.7	5673.3	5646.4	5565.5	5502.6	5496.7	5709.2	5658.3	5604.4	5577.5
45°	5951.7	5927.8	6017.6	6020.6	5915.8	5778.1	5808.0	6002.6	6089.4	5969.7	6014.6
47.5°	6331.9	6343.9	6406.8	6535.5	6293.0	6149.3	6260.1	6574.4	6547.5	6502.6	6544.5
50°	6840.9	6894.8	7092.4	7047.5	6831.9	6655.3	6897.8	7194.2	7227.1	7062.4	7032.5
52.5°	7544.4	7628.3	7736.0	7772.0	7565.4	7502.5	7517.5	7885.7	7804.9	7646.2	7544.4
55°	8161.2	8200.1	8397.7	8694.1	8679.1	8376.7	8550.4	8688.1	8358.8	8032.4	8059.4
57.5°	8424.6	8442.6	8993.4	9586.2	9939.5	10008.4	9810.8	9346.7	8562.3	7933.6	7894.7
60°	7769.0	7939.6	8604.3	9942.5	11556.2	12352.5	11038.2	9421.6	8086.3	7322.9	7266.0
62.5°	6209.2	6218.2	7206.1	9235.9	12562.1	14648.8	11508.3	8718.0	6816.9	5951.7	5724.2
64°	4421.9	4505.7	5640.4	8176.1	12352.5	15582.9	11451.4	7798.9	5619.4	4391.9	4233.3
65°	3173.5	3290.2	4386.0	7098.4	11861.5	15472.1	11280.7	7008.5	4544.6	3353.1	3191.4
67.5°	1167.6	1215.5	1721.4	3550.7	8517.4	13184.8	8939.6	3853.1	1996.9	1422.1	1278.4
70°	541.9	544.9	637.7	1173.6	3724.3	8816.8	4266.2	1446.0	751.4	595.8	553.9
72.5°	398.2	407.2	446.1	541.9	1095.7	3733.3	1401.1	592.8	440.1	389.2	380.2
75°	323.3	329.3	341.3	392.2	506.0	999.9	568.8	410.2	350.3	314.4	302.4
77.5°	248.5	248.5	275.4	299.4	335.3	467.0	377.2	326.3	284.4	248.5	239.5
80°	179.6	182.6	215.6	233.5	227.5	308.4	272.4	269.4	233.5	194.6	179.6
82.5°	104.8	113.8	155.7	167.7	161.7	182.6	197.6	209.6	182.6	134.7	122.7
85°	59.9	62.9	89.8	92.8	92.8	86.8	113.8	125.7	122.7	83.8	74.8
87.5°	18.0	18.0	24.0	24.0	26.9	29.9	44.9	53.9	59.9	41.9	38.9
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°	136°	145°	155°	165°	175°	180°
0°	3056.7	3056.7	3056.7	3056.7	3056.7	3056.7	3056.7	3056.7	3056.7	3056.7	3056.7
2.5°	3104.6	3059.7	3062.7	3074.7	3035.7	3050.7	3095.6	3062.7	3053.7	3035.7	3026.8
5°	3089.6	3137.5	3119.6	3125.6	3116.6	3074.7	3068.7	3095.6	3110.6	3083.6	3137.5
7.5°	3194.4	3173.5	3149.5	3158.5	3137.5	3173.5	3197.4	3143.5	3170.5	3155.5	3125.6
10°	3254.3	3215.4	3233.3	3227.3	3212.4	3248.3	3224.3	3218.4	3194.4	3161.5	3209.4
12.5°	3275.2	3320.2	3350.1	3299.2	3308.2	3290.2	3275.2	3275.2	3248.3	3239.3	3248.3
15°	3368.1	3407.0	3395.0	3433.9	3383.0	3401.0	3418.9	3374.0	3398.0	3332.1	3383.0
17.5°	3538.7	3505.8	3547.7	3496.8	3514.8	3550.7	3493.8	3493.8	3511.8	3475.8	3430.9
20°	3646.5	3631.5	3616.5	3619.5	3589.6	3622.5	3604.6	3595.6	3568.6	3580.6	3604.6
22.5°	3748.3	3727.3	3733.3	3742.3	3763.2	3748.3	3739.3	3748.3	3682.4	3742.3	3658.5
25°	3874.0	3930.9	3912.9	3951.8	3892.0	3930.9	3927.9	3871.0	3906.9	3883.0	3865.0
27.5°	4083.6	4053.6	4080.6	4032.7	4074.6	4077.6	4041.7	4137.5	4095.6	4089.6	4077.6
30°	4353.0	4332.1	4314.1	4287.2	4320.1	4293.1	4323.1	4332.1	4293.1	4263.2	4206.3
32.5°	4505.7	4562.6	4583.5	4517.7	4520.7	4535.6	4508.7	4481.8	4505.7	4514.7	4505.7
35°	4721.3	4775.2	4787.1	4736.2	4709.3	4784.1	4730.2	4820.1	4742.2	4745.2	4664.4
37.5°	4972.7	4987.7	5089.5	5032.6	5008.7	4972.7	5071.5	5059.6	5077.5	4933.8	5005.7
40°	5257.2	5311.0	5367.9	5224.2	5221.2	5254.2	5248.2	5317.0	5284.1	5263.1	5212.2
42.5°	5568.5	5682.3	5691.3	5595.5	5535.6	5529.6	5559.5	5712.2	5715.2	5577.5	5517.6
45°	5981.7	6107.4	6074.5	5888.9	5823.0	5814.0	5960.7	6026.6	6083.5	6029.6	5978.7
47.5°	6496.6	6580.4	6556.5	6385.8	6173.3	6233.1	6376.8	6583.4	6523.5	6451.7	6391.8
50°	7047.5	7146.3	7095.4	6924.7	6721.1	6721.1	6897.8	7161.2	7143.3	7002.6	6948.7
52.5°	7658.2	7801.9	7918.7	7676.2	7505.5	7532.5	7810.9	7906.7	7861.8	7763.0	7718.1
55°	8113.3	8388.7	8628.2	8640.2	8649.2	8646.2	8718.0	8813.8	8493.5	8334.8	8173.1
57.5°	8002.5	8523.4	9343.7	9900.6	10065.2	10152.1	10128.1	9685.0	8927.6	8406.7	8460.5
60°	7212.1	8062.4	9385.6	11173.0	12370.5	12250.7	11813.6	10062.2	8688.1	7807.9	7697.1
62.5°	5754.1	6778.0	8682.1	11532.2	14831.4	14795.5	12508.2	9191.0	7239.1	6125.4	6056.5
64°	4335.1	5412.8	7745.0	11439.4	15693.6	15729.6	12331.6	8119.3	5664.3	4335.1	4230.3
65°	3317.2	4317.1	6825.9	11247.8	15508.0	15529.0	11840.6	7011.5	4305.1	3077.7	2963.9
67.5°	1320.3	1838.2	3703.4	8529.4	13316.5	13259.6	8448.6	3392.0	1646.6	1071.8	1050.8
70°	562.8	700.6	1299.3	4041.7	8915.6	8750.9	3637.5	1101.7	610.7	511.9	509.0
72.5°	386.2	428.1	556.9	1248.4	3706.4	3619.5	1035.9	511.9	416.1	383.2	383.2
75°	311.4	341.3	404.2	523.9	982.0	946.0	488.0	377.2	332.3	308.4	305.4
77.5°	242.5	272.4	317.3	362.3	449.1	446.1	326.3	284.4	257.5	239.5	233.5
80°	191.6	221.5	251.5	257.5	293.4	287.4	221.5	224.5	209.6	173.6	170.6
82.5°	131.7	179.6	200.6	182.6	173.6	173.6	158.7	158.7	146.7	107.8	98.8
85°	80.8	119.8	125.7	107.8	80.8	80.8	86.8	83.8	77.8	56.9	53.9
87.5°	41.9	56.9	50.9	41.9	26.9	26.9	24.0	18.0	18.0	15.0	15.0
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)