

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: P479079

Luminaire Tested: **IFLD-L-SA7B-827-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479079
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-827-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

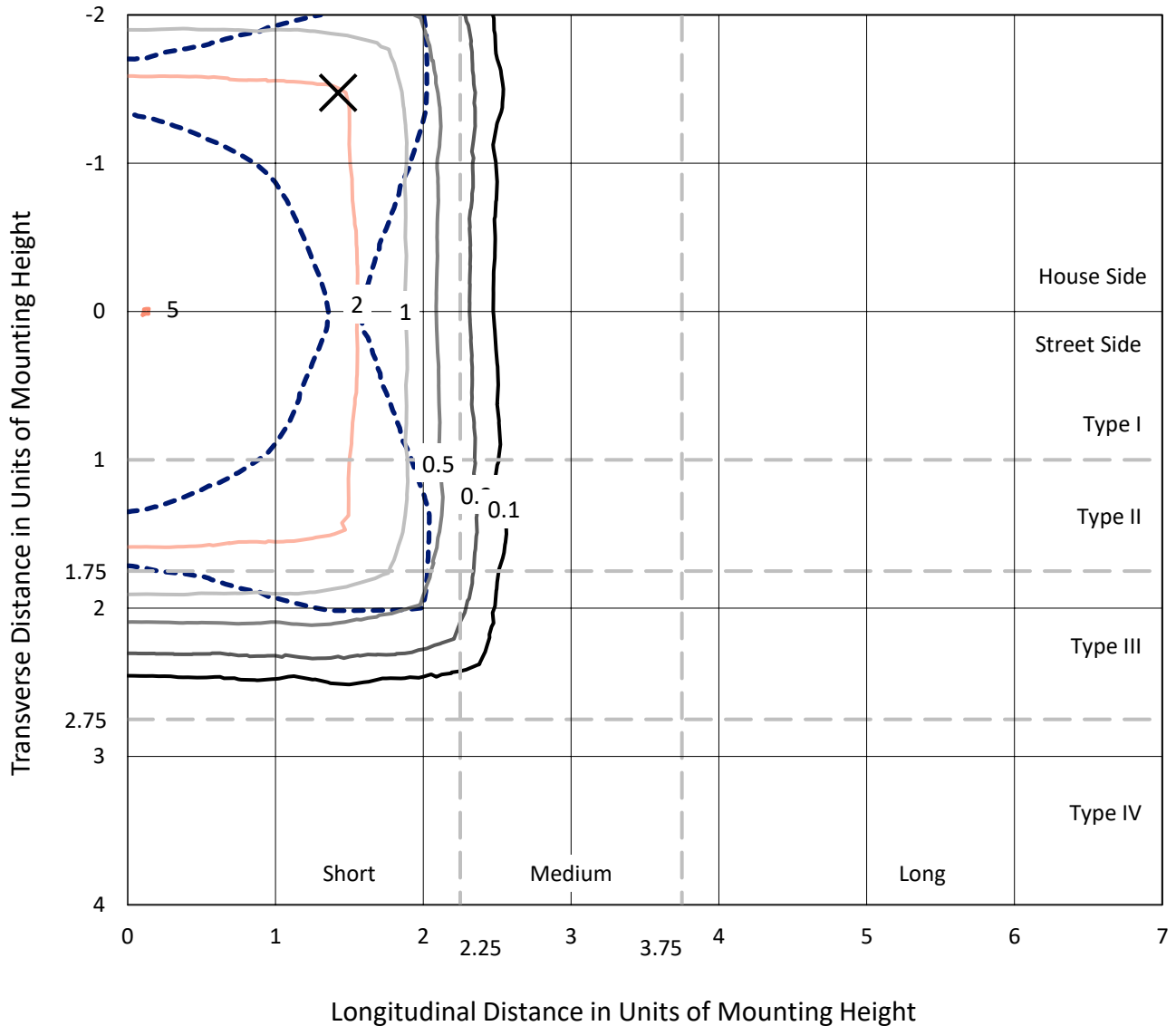
Lumens per Lamp: N/A
Luminaire Lumens: 26109.7 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 281
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

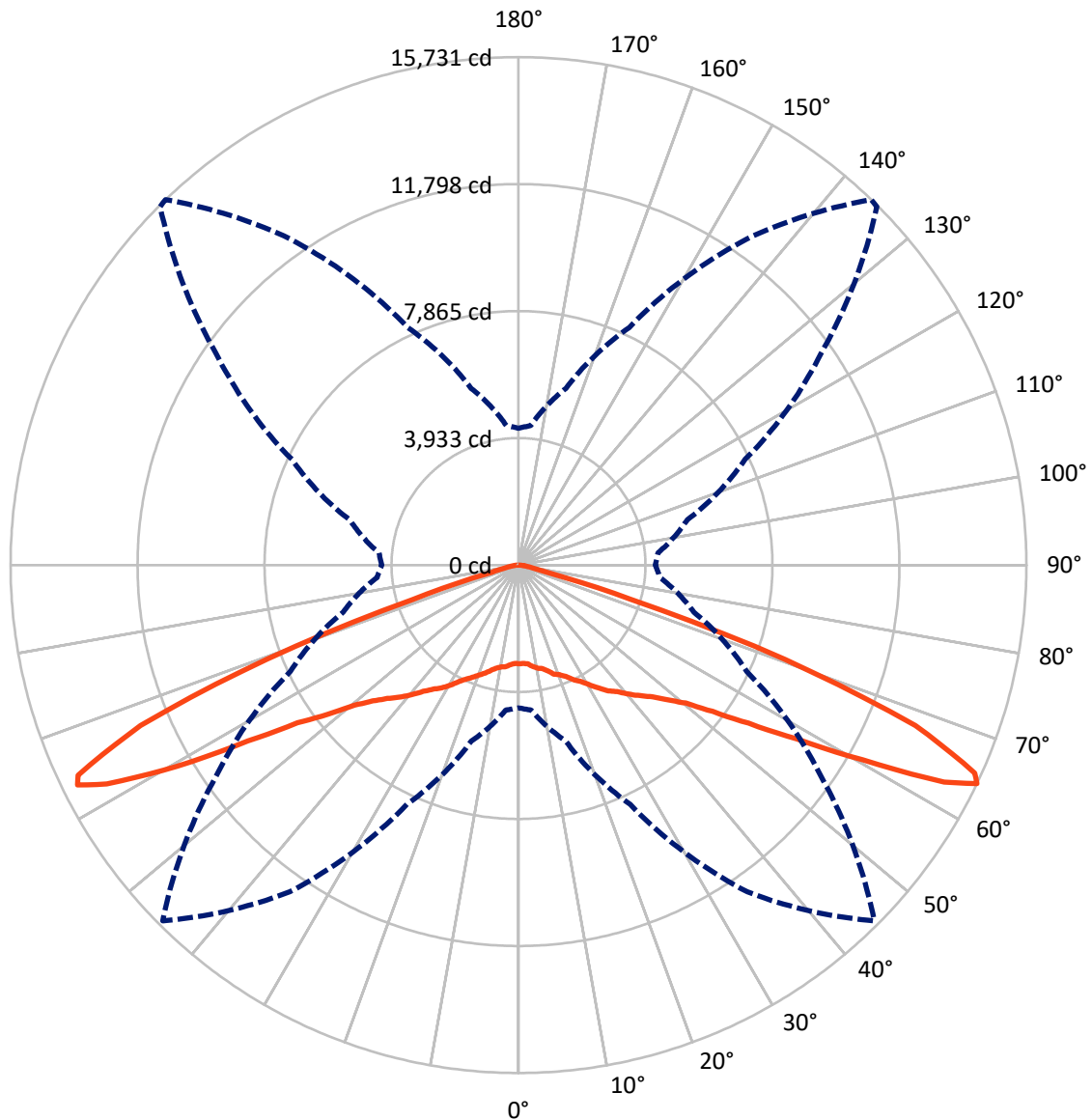
✕ Max cd
 - - - 1/2 Max cd



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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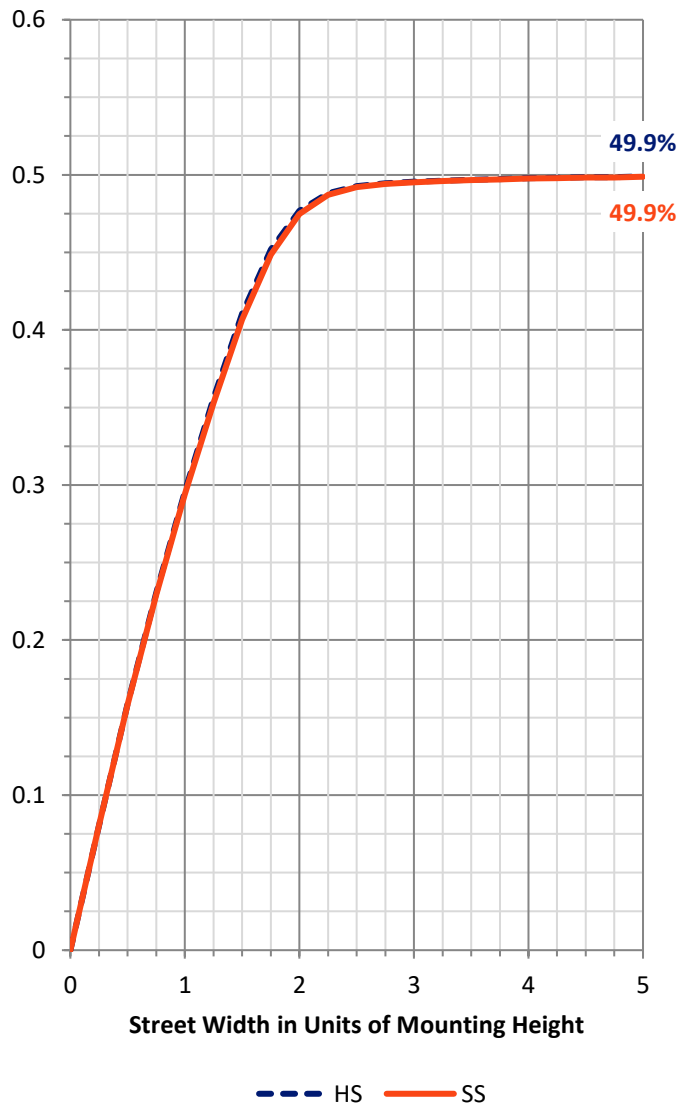
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13067.3	0.0	13067.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13042.4	0.0	13042.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	26109.7	0.0	26109.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.4	1.2
10°-20°	968.1	3.7
20°-30°	1819.4	7.0
30°-40°	3000.5	11.5
40°-50°	4692.6	18.0
50°-60°	7582.1	29.0
60°-70°	6827.2	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°	26109.7	100.0
0°-180°	26109.7	100.0

Coefficient of Utilization



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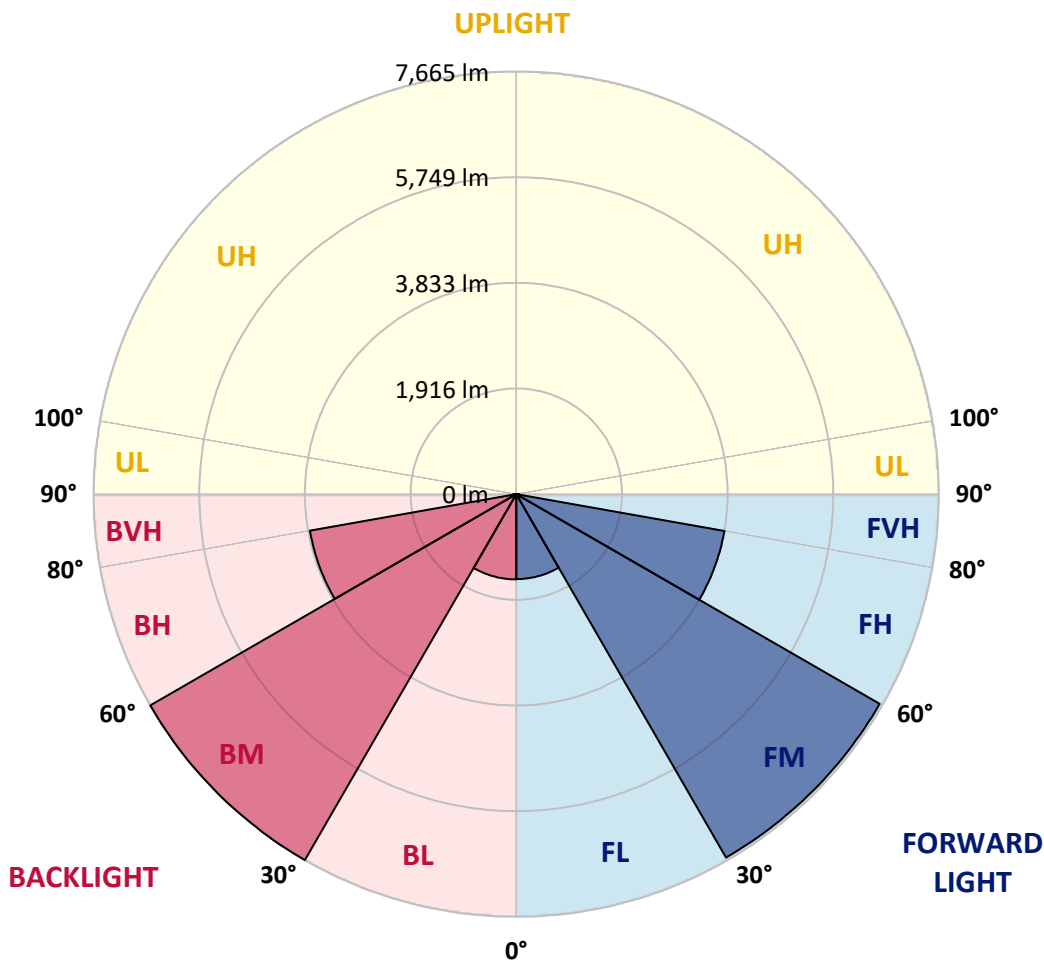
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1540.9	5.9			
FM (30°-60°)	7610.2	29.1			
FH (60°-80°)	3834.5	14.7			G2/5000
FVH (80°-90°)	56.8	0.2			G1/100
BL (0°-30°)	1546.9	5.9	B3/2500		
BM (30°-60°)	7665.1	29.4	B4/8500		
BH (60°-80°)	3801.4	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°	3056.9	3056.9	3056.9	3056.9	3056.9	3056.9	3056.9	3056.9	3056.9	3056.9	3056.9
2.5°	3021.0	3027.0	3080.9	3059.9	3077.9	3044.9	3068.9	3119.8	3059.9	3104.8	3119.8
5°	3053.9	3062.9	3062.9	3083.9	3095.8	3089.8	3104.8	3083.9	3140.7	3116.8	3152.7
7.5°	3173.7	3158.7	3134.8	3152.7	3155.7	3170.7	3185.7	3212.6	3203.6	3182.7	3218.6
10°	3194.6	3182.7	3218.6	3221.6	3206.6	3194.6	3209.6	3209.6	3236.5	3242.5	3242.5
12.5°	3230.6	3242.5	3239.5	3263.5	3266.5	3257.5	3281.5	3326.4	3314.4	3323.4	3302.4
15°	3368.3	3353.3	3350.3	3374.3	3413.2	3356.3	3398.2	3395.2	3383.3	3401.2	3353.3
17.5°	3488.0	3440.1	3461.1	3500.0	3485.1	3497.0	3550.9	3503.0	3515.0	3494.0	3479.1
20°	3592.8	3553.9	3556.9	3571.9	3571.9	3607.8	3628.8	3610.8	3598.8	3595.8	3601.8
22.5°	3709.6	3664.7	3667.7	3730.6	3751.5	3739.5	3724.6	3754.5	3760.5	3736.6	3763.5
25°	3796.4	3844.3	3859.3	3889.2	3844.3	3877.3	3865.3	3922.2	3958.1	3910.2	3943.1
27.5°	4024.0	4003.0	4041.9	4038.9	4074.9	4041.9	4062.9	4080.9	4095.8	4098.8	4083.9
30°	4227.6	4236.6	4197.6	4302.4	4218.6	4272.5	4308.4	4317.4	4335.4	4335.4	4290.4
32.5°	4443.1	4425.2	4488.1	4464.1	4449.1	4491.0	4452.1	4574.9	4503.0	4544.9	4494.0
35°	4685.7	4685.7	4709.6	4775.5	4685.7	4658.7	4730.6	4781.5	4781.5	4706.6	4724.6
37.5°	4958.1	4934.2	4964.1	5047.9	4979.1	4889.3	5021.0	5041.9	5027.0	5006.0	4970.1
40°	5149.7	5143.7	5203.6	5314.4	5215.6	5197.6	5221.6	5278.5	5296.4	5317.4	5269.5
42.5°	5473.1	5500.0	5673.7	5646.7	5565.9	5503.0	5497.0	5709.6	5658.7	5604.8	5577.9
45°	5952.1	5928.2	6018.0	6021.0	5916.2	5778.5	5808.4	6003.0	6089.9	5970.1	6015.0
47.5°	6332.4	6344.4	6407.2	6536.0	6293.5	6149.7	6260.5	6574.9	6547.9	6503.0	6545.0
50°	6841.4	6895.3	7092.9	7048.0	6832.4	6655.7	6898.2	7194.7	7227.6	7062.9	7033.0
52.5°	7545.0	7628.8	7736.6	7772.5	7565.9	7503.0	7518.0	7886.3	7805.4	7646.8	7545.0
55°	8161.7	8200.7	8398.3	8694.7	8679.7	8377.3	8551.0	8688.7	8359.3	8033.0	8059.9
57.5°	8425.2	8443.2	8994.1	9586.9	9940.2	10009.0	9811.4	9347.4	8562.9	7934.2	7895.3
60°	7769.5	7940.2	8604.8	9943.2	11557.0	12353.4	11039.0	9422.2	8086.9	7323.4	7266.5
62.5°	6209.6	6218.6	7206.6	9236.6	12563.0	14649.8	11509.1	8718.6	6817.4	5952.1	5724.6
64°	4422.2	4506.0	5640.8	8176.7	12353.4	15583.9	11452.2	7799.5	5619.8	4392.2	4233.6
65°	3173.7	3290.4	4386.3	7098.8	11862.4	15473.2	11281.5	7009.0	4544.9	3353.3	3191.6
67.5°	1167.7	1215.6	1721.6	3550.9	8518.0	13185.7	8940.2	3853.3	1997.0	1422.2	1278.5
70°	541.9	544.9	637.7	1173.7	3724.6	8817.4	4266.5	1446.1	751.5	595.8	553.9
72.5°	398.2	407.2	446.1	541.9	1095.8	3733.6	1401.2	592.8	440.1	389.2	380.2
75°	323.4	329.3	341.3	392.2	506.0	1000.0	568.9	410.2	350.3	314.4	302.4
77.5°	248.5	248.5	275.5	299.4	335.3	467.1	377.2	326.3	284.4	248.5	239.5
80°	179.6	182.6	215.6	233.5	227.5	308.4	272.5	269.5	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	122.8
85°	59.9	62.9	89.8	92.8	92.8	86.8	113.8	125.7	122.8	83.8	74.9
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°	3056.9	3056.9	3056.9	3056.9	3056.9	3056.9	3056.9	3056.9	3056.9	3056.9	3056.9
2.5°	3104.8	3059.9	3062.9	3074.9	3035.9	3050.9	3095.8	3062.9	3053.9	3035.9	3027.0
5°	3089.8	3137.7	3119.8	3125.8	3116.8	3074.9	3068.9	3095.8	3110.8	3083.9	3137.7
7.5°	3194.6	3173.7	3149.7	3158.7	3137.7	3173.7	3197.6	3143.7	3170.7	3155.7	3125.8
10°	3254.5	3215.6	3233.6	3227.6	3212.6	3248.5	3224.6	3218.6	3194.6	3161.7	3209.6
12.5°	3275.5	3320.4	3350.3	3299.4	3308.4	3290.4	3275.5	3275.5	3248.5	3239.5	3248.5
15°	3368.3	3407.2	3395.2	3434.2	3383.3	3401.2	3419.2	3374.3	3398.2	3332.4	3383.3
17.5°	3538.9	3506.0	3547.9	3497.0	3515.0	3550.9	3494.0	3494.0	3512.0	3476.1	3431.2
20°	3646.7	3631.8	3616.8	3619.8	3589.8	3622.8	3604.8	3595.8	3568.9	3580.9	3604.8
22.5°	3748.5	3727.6	3733.6	3742.5	3763.5	3748.5	3739.5	3748.5	3682.7	3742.5	3658.7
25°	3874.3	3931.2	3913.2	3952.1	3892.2	3931.2	3928.2	3871.3	3907.2	3883.3	3865.3
27.5°	4083.9	4053.9	4080.9	4033.0	4074.9	4077.9	4041.9	4137.8	4095.8	4089.8	4077.9
30°	4353.3	4332.4	4314.4	4287.5	4320.4	4293.4	4323.4	4332.4	4293.4	4263.5	4206.6
32.5°	4506.0	4562.9	4583.9	4518.0	4521.0	4536.0	4509.0	4482.1	4506.0	4515.0	4506.0
35°	4721.6	4775.5	4787.5	4736.6	4709.6	4784.5	4730.6	4820.4	4742.5	4745.5	4664.7
37.5°	4973.1	4988.1	5089.9	5033.0	5009.0	4973.1	5071.9	5059.9	5077.9	4934.2	5006.0
40°	5257.5	5311.4	5368.3	5224.6	5221.6	5254.5	5248.5	5317.4	5284.5	5263.5	5212.6
42.5°	5568.9	5682.7	5691.7	5595.8	5536.0	5530.0	5559.9	5712.6	5715.6	5577.9	5518.0
45°	5982.1	6107.8	6074.9	5889.3	5823.4	5814.4	5961.1	6027.0	6083.9	6030.0	5979.1
47.5°	6497.0	6580.9	6556.9	6386.3	6173.7	6233.6	6377.3	6583.9	6524.0	6452.1	6392.3
50°	7048.0	7146.8	7095.9	6925.2	6721.6	6721.6	6898.2	7161.7	7143.8	7003.0	6949.1
52.5°	7658.7	7802.4	7919.2	7676.7	7506.0	7533.0	7811.4	7907.2	7862.3	7763.5	7718.6
55°	8113.8	8389.3	8628.8	8640.8	8649.8	8646.8	8718.6	8814.4	8494.1	8335.4	8173.7
57.5°	8003.0	8524.0	9344.4	9901.3	10065.9	10152.8	10128.8	9685.7	8928.2	8407.2	8461.1
60°	7212.6	8062.9	9386.3	11173.7	12371.3	12251.6	11814.5	10062.9	8688.7	7808.4	7697.7
62.5°	5754.5	6778.5	8682.7	11533.0	14832.4	14796.5	12509.1	9191.7	7239.6	6125.8	6056.9
64°	4335.4	5413.2	7745.6	11440.2	15694.7	15730.6	12332.4	8119.8	5664.7	4335.4	4230.6
65°	3317.4	4317.4	6826.4	11248.6	15509.1	15530.0	11841.4	7012.0	4305.4	3077.9	2964.1
67.5°	1320.4	1838.3	3703.6	8530.0	13317.5	13260.6	8449.2	3392.2	1646.7	1071.9	1050.9
70°	562.9	700.6	1299.4	4041.9	8916.2	8751.6	3637.7	1101.8	610.8	512.0	509.0
72.5°	386.2	428.1	556.9	1248.5	3706.6	3619.8	1035.9	512.0	416.2	383.2	383.2
75°	311.4	341.3	404.2	524.0	982.0	946.1	488.0	377.2	332.3	308.4	305.4
77.5°	242.5	272.5	317.4	362.3	449.1	446.1	326.3	284.4	257.5	239.5	233.5
80°	191.6	221.6	251.5	257.5	293.4	287.4	221.6	224.6	209.6	173.7	170.7
82.5°	131.7	179.6	200.6	182.6	173.7	173.7	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)