

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: P479395

Luminaire Tested: **IFLD-L-SA8A-750-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479395
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-750-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

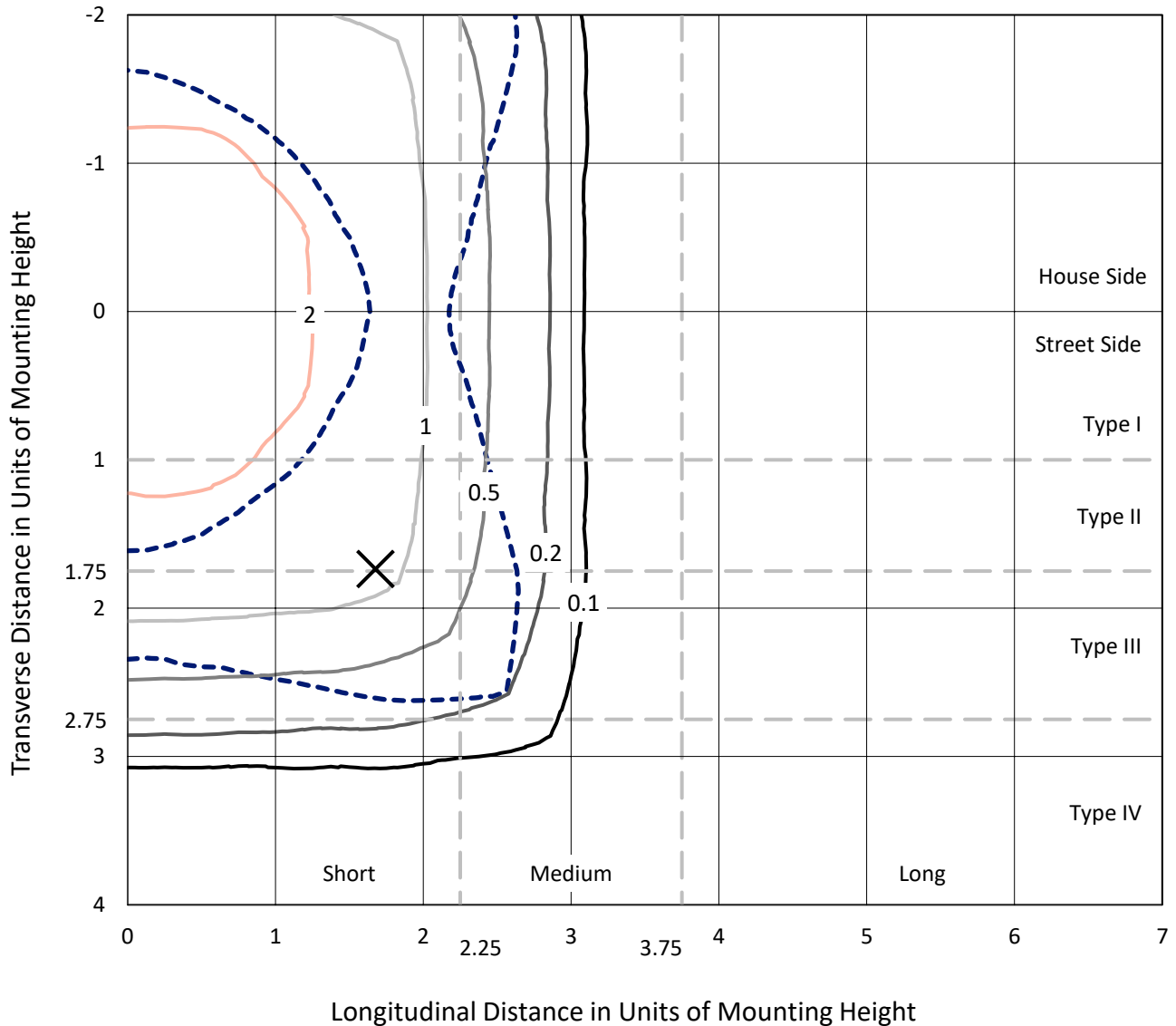
Lumens per Lamp: N/A
Luminaire Lumens: 35370.4 lumens
Efficiency: N/A
Efficacy: 142.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 247.8
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

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Iso-Footcandle Lines of Horizontal Illumination

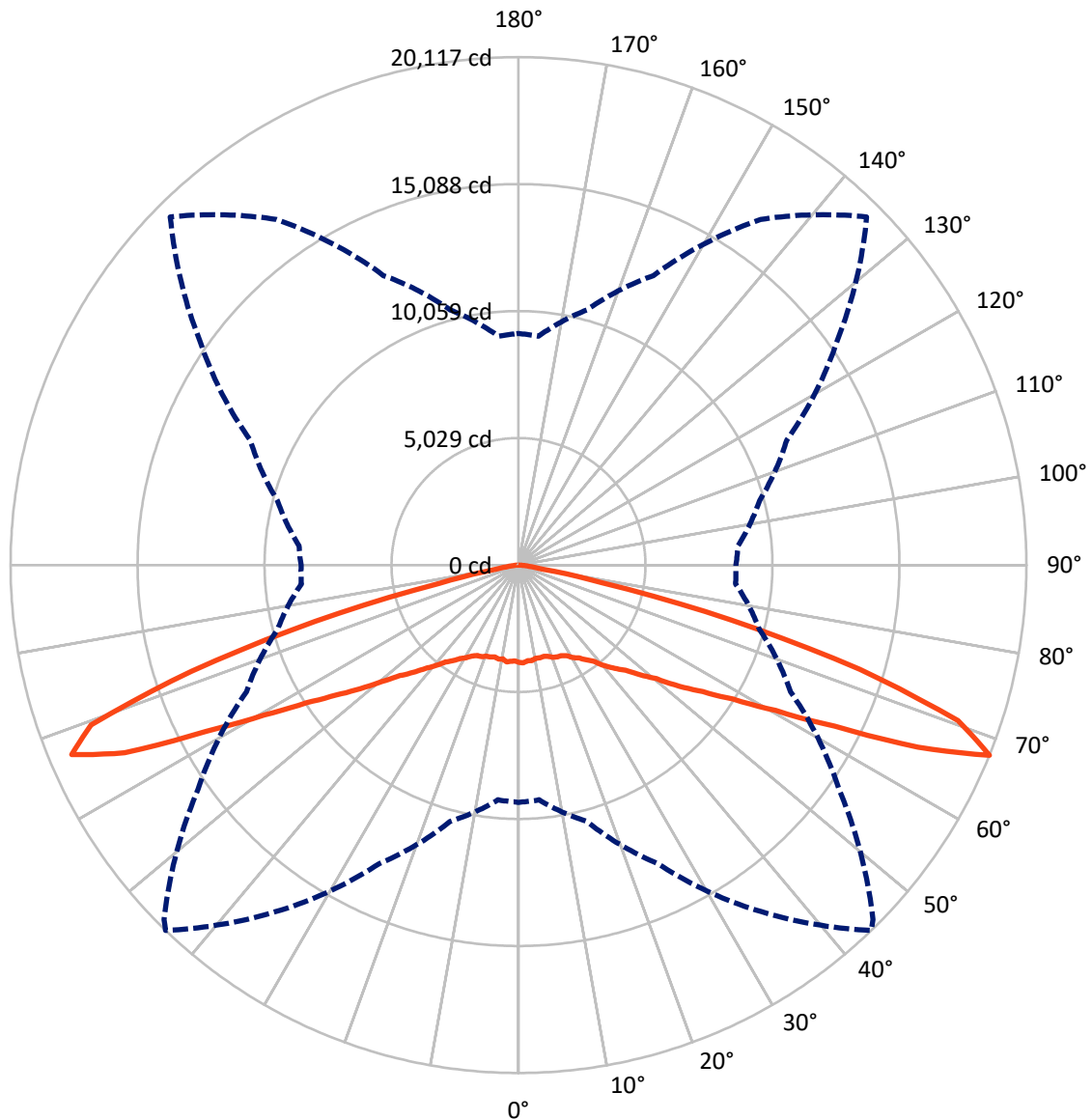
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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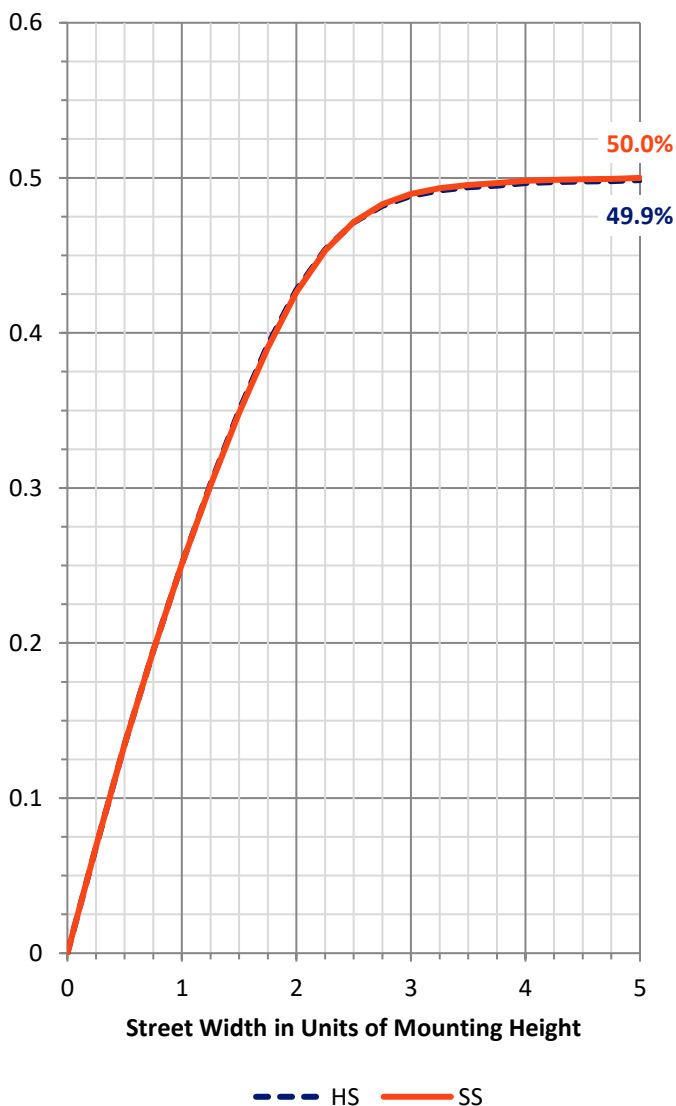
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17639.9	0.0	17639.9
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	17730.5	0.0	17730.5
	% Fixture	50.1	0.0	50.1
Total	Lumens	35370.4	0.0	35370.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.6	1.0
10°-20°	1068.1	3.0
20°-30°	1816.4	5.1
30°-40°	2880.0	8.1
40°-50°	4696.1	13.3
50°-60°	8020.3	22.7
60°-70°	12198.7	34.5
70°-80°	4111.7	11.6
80°-90°	213.5	0.6
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°	35370.4	100.0
0°-180°	35370.4	100.0

Coefficient of Utilization



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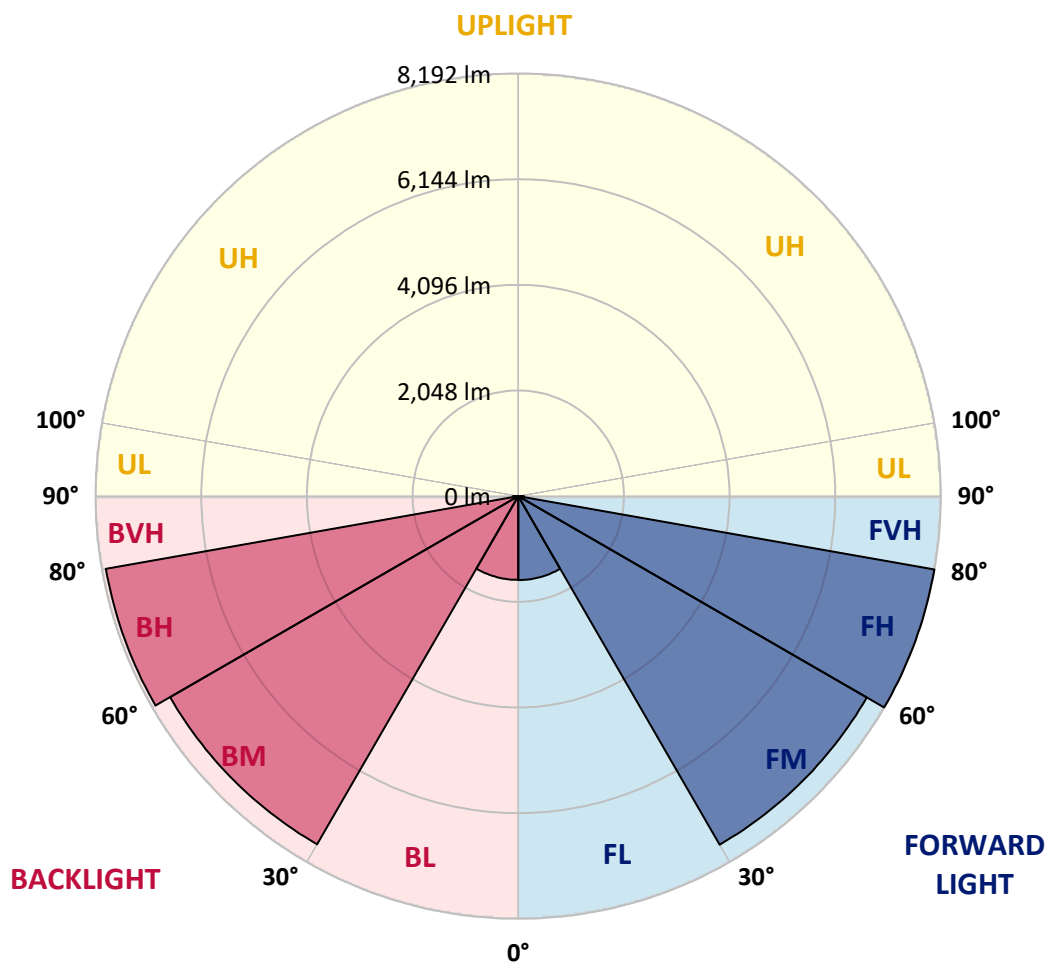
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1626.7	4.6			
FM (30°-60°)	7802.4	22.1			
FH (60°-80°)	8192.2	23.2			G4/12000
FVH (80°-90°)	109.2	0.3			G2/225
BL (0°-30°)	1623.4	4.6	B3/2500		
BM (30°-60°)	7793.9	22.0	B4/8500		
BH (60°-80°)	8118.3	23.0	B5		G4/12000
BVH (80°-90°)	104.3	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3863.6	3863.6	3863.6	3863.6	3863.6	3863.6	3863.6	3863.6	3863.6	3863.6	3863.6
2.5°	3774.8	3819.2	3851.5	3847.5	3859.6	3871.7	3855.5	3879.8	3863.6	3891.9	3908.0
5°	3847.5	3835.3	3839.4	3815.2	3871.7	3807.1	3807.1	3839.4	3879.8	3831.3	3859.6
7.5°	3803.0	3795.0	3774.8	3811.1	3823.2	3823.2	3855.5	3795.0	3863.6	3879.8	3883.8
10°	3754.6	3710.2	3770.7	3807.1	3815.2	3750.6	3778.8	3795.0	3774.8	3795.0	3807.1
12.5°	3714.2	3738.5	3738.5	3738.5	3726.3	3770.7	3799.0	3795.0	3754.6	3790.9	3726.3
15°	3710.2	3698.1	3734.4	3766.7	3746.5	3754.6	3766.7	3803.0	3726.3	3742.5	3742.5
17.5°	3706.2	3722.3	3734.4	3730.4	3799.0	3799.0	3786.9	3762.7	3823.2	3790.9	3746.5
20°	3722.3	3710.2	3742.5	3754.6	3803.0	3899.9	3863.6	3843.4	3811.1	3770.7	3770.7
22.5°	3742.5	3734.4	3778.8	3831.3	3924.2	3948.4	3944.3	3920.1	3863.6	3815.2	3807.1
25°	3815.2	3742.5	3790.9	3891.9	3924.2	3972.6	4004.9	3972.6	3895.9	3908.0	3835.3
27.5°	3924.2	3912.1	3976.6	4045.3	4017.0	4061.4	4033.2	4057.4	4061.4	4000.9	3928.2
30°	4053.4	4017.0	4057.4	4190.6	4202.7	4251.2	4202.7	4138.1	4158.3	4105.8	4069.5
32.5°	4239.1	4227.0	4303.7	4392.5	4408.6	4384.4	4360.2	4396.5	4311.7	4271.4	4206.8
35°	4360.2	4412.7	4505.5	4574.2	4626.6	4602.4	4614.5	4578.2	4598.4	4513.6	4485.3
37.5°	4719.5	4699.3	4719.5	4836.6	4848.7	4836.6	4848.7	4889.1	4860.8	4788.1	4715.5
40°	5058.6	5026.3	5074.8	5208.0	5199.9	5240.3	5159.5	5204.0	5204.0	5066.7	5038.4
42.5°	5313.0	5422.0	5478.5	5587.5	5627.9	5591.5	5575.4	5583.5	5672.3	5510.8	5450.2
45°	5837.8	5833.8	6003.3	6063.9	5950.8	5942.8	5910.5	6007.4	6067.9	5975.1	5950.8
47.5°	6407.0	6435.3	6532.2	6556.4	6625.1	6499.9	6499.9	6512.0	6726.0	6508.0	6394.9
50°	6919.8	6956.1	7149.9	7339.6	7210.4	7077.2	7129.7	7194.3	7311.4	7105.5	7008.6
52.5°	7541.5	7739.3	7868.5	7969.4	8062.3	7969.4	7848.3	7921.0	8151.1	7876.6	7755.5
55°	8437.8	8595.2	8716.3	8902.0	8978.7	8853.6	8841.5	8833.4	8962.6	8671.9	8506.4
57.5°	9439.0	9374.4	9568.2	9854.8	10133.4	10012.3	9975.9	9984.0	10016.3	9604.5	9479.4
60°	10682.4	10755.1	10985.2	11235.5	11530.3	11699.8	11461.6	11324.4	11352.6	10791.5	10597.7
62.5°	11393.0	11554.5	12075.3	12935.2	13528.7	14057.5	14093.9	13201.7	12604.2	11514.1	10690.5
65°	11049.8	11025.6	12006.6	13597.3	15846.0	17384.2	17154.1	14990.1	12902.9	11170.9	10064.8
67.5°	9398.6	9334.0	10521.0	13044.2	16758.4	20117.4	19855.0	15494.8	11893.6	9883.1	8631.5
70°	6055.8	6039.7	7327.5	9943.6	14961.9	18470.2	18567.1	14073.7	9681.2	7238.7	5999.3
72.5°	2200.3	2333.5	3080.4	5345.3	10161.6	14130.2	14190.8	10420.0	5567.3	3346.8	2466.7
75°	811.5	835.7	973.0	1736.0	4630.7	8676.0	8902.0	5054.6	1978.2	1090.0	888.2
77.5°	468.3	472.4	520.8	646.0	1372.6	3387.2	3524.5	1534.1	767.1	581.4	536.9
80°	318.9	314.9	367.4	419.9	549.1	960.9	1021.4	641.9	484.5	403.7	339.1
82.5°	185.7	197.8	270.5	298.8	335.1	423.9	432.0	399.7	363.3	298.8	222.0
85°	113.0	92.9	149.4	165.5	193.8	189.7	189.7	218.0	234.2	209.9	125.2
87.5°	28.3	28.3	36.3	40.4	52.5	40.4	44.4	84.8	113.0	105.0	64.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3863.6	3863.6	3863.6	3863.6	3863.6	3863.6	3863.6	3863.6	3863.6	3863.6	3863.6
2.5°	3871.7	3859.6	3867.6	3912.1	3883.8	3799.0	3819.2	3863.6	3827.3	3807.1	3803.0
5°	3855.5	3879.8	3851.5	3859.6	3887.8	3819.2	3831.3	3887.8	3863.6	3871.7	3827.3
7.5°	3859.6	3871.7	3847.5	3811.1	3811.1	3867.6	3835.3	3843.4	3807.1	3867.6	3786.9
10°	3835.3	3803.0	3774.8	3795.0	3786.9	3770.7	3758.6	3782.9	3746.5	3799.0	3742.5
12.5°	3762.7	3770.7	3762.7	3754.6	3770.7	3811.1	3746.5	3754.6	3698.1	3706.2	3734.4
15°	3734.4	3758.6	3750.6	3795.0	3815.2	3754.6	3803.0	3754.6	3710.2	3686.0	3730.4
17.5°	3746.5	3782.9	3770.7	3803.0	3766.7	3811.1	3819.2	3799.0	3746.5	3726.3	3746.5
20°	3758.6	3746.5	3762.7	3819.2	3871.7	3827.3	3827.3	3815.2	3766.7	3738.5	3738.5
22.5°	3786.9	3766.7	3790.9	3835.3	3851.5	3920.1	3859.6	3831.3	3750.6	3677.9	3746.5
25°	3843.4	3855.5	3871.7	3855.5	3944.3	3936.3	3928.2	3908.0	3782.9	3786.9	3774.8
27.5°	3952.4	3883.8	3904.0	4000.9	4013.0	4045.3	4004.9	4041.2	3908.0	3912.1	3831.3
30°	4085.7	4013.0	4077.6	4162.4	4158.3	4218.9	4198.7	4206.8	4113.9	4061.4	3952.4
32.5°	4231.0	4222.9	4263.3	4315.8	4336.0	4368.3	4364.2	4364.2	4307.7	4170.4	4190.6
35°	4392.5	4449.0	4497.4	4554.0	4562.0	4602.4	4545.9	4554.0	4497.4	4396.5	4428.8
37.5°	4711.4	4707.4	4759.9	4828.5	4836.6	4804.3	4848.7	4828.5	4751.8	4683.2	4630.7
40°	5082.8	5002.1	5050.5	5212.0	5224.1	5167.6	5163.6	5159.5	5103.0	4953.7	4921.4
42.5°	5405.8	5510.8	5502.7	5555.2	5518.9	5490.6	5591.5	5535.0	5490.6	5333.1	5304.9
45°	5821.7	5853.9	5958.9	6128.5	5954.9	5954.9	6023.5	5979.1	5954.9	5837.8	5728.8
47.5°	6338.4	6366.7	6576.6	6588.7	6475.7	6399.0	6612.9	6621.0	6520.1	6431.3	6298.0
50°	6944.0	6956.1	7145.9	7339.6	7214.5	7069.1	7287.2	7371.9	7145.9	7024.7	6859.2
52.5°	7610.1	7573.8	7731.2	8094.6	7973.5	7929.1	8163.2	8183.4	7876.6	7686.8	7731.2
55°	8377.2	8328.8	8756.7	9003.0	8926.3	8845.5	8950.5	8998.9	8752.7	8441.8	8550.8
57.5°	9370.4	9394.6	9608.5	9850.8	9975.9	9996.1	10044.6	9996.1	9745.8	9430.9	9330.0
60°	10363.5	10436.2	10852.0	11308.2	11348.6	11703.9	11639.3	11397.0	11041.8	10593.6	10613.8
62.5°	10730.9	10670.3	11340.5	12454.8	13403.5	14053.5	13766.9	12906.9	12083.4	11267.8	11328.4
65°	9992.1	10141.5	11053.9	12797.9	14856.9	17428.6	15902.6	13524.6	11861.3	10807.6	10690.5
67.5°	8611.4	8724.4	9883.1	11724.0	15377.7	19503.7	16710.0	12652.6	10460.4	9095.8	9168.5
70°	5999.3	6055.8	7190.3	9604.5	13944.5	18405.6	15074.9	9717.6	7222.6	5757.1	5837.8
72.5°	2414.2	2551.5	3298.4	5785.3	10294.9	13984.9	10149.5	5099.0	2995.6	2228.5	2022.6
75°	892.2	896.3	1053.7	1990.3	4889.1	8789.0	4578.2	1639.1	956.8	783.2	746.9
77.5°	516.8	512.7	549.1	718.6	1417.1	3431.6	1300.0	641.9	520.8	468.3	448.1
80°	323.0	318.9	375.5	476.4	621.7	940.7	549.1	399.7	351.2	302.8	302.8
82.5°	205.9	209.9	294.7	351.2	379.5	415.8	318.9	282.6	262.4	173.6	169.6
85°	133.2	121.1	205.9	234.2	209.9	185.7	177.6	149.4	137.3	84.8	92.9
87.5°	60.6	64.6	105.0	117.1	76.7	44.4	44.4	32.3	32.3	20.2	20.2
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)