

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: P478920

Luminaire Tested: **IFLD-M-SA4D-735-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478920
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-735-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

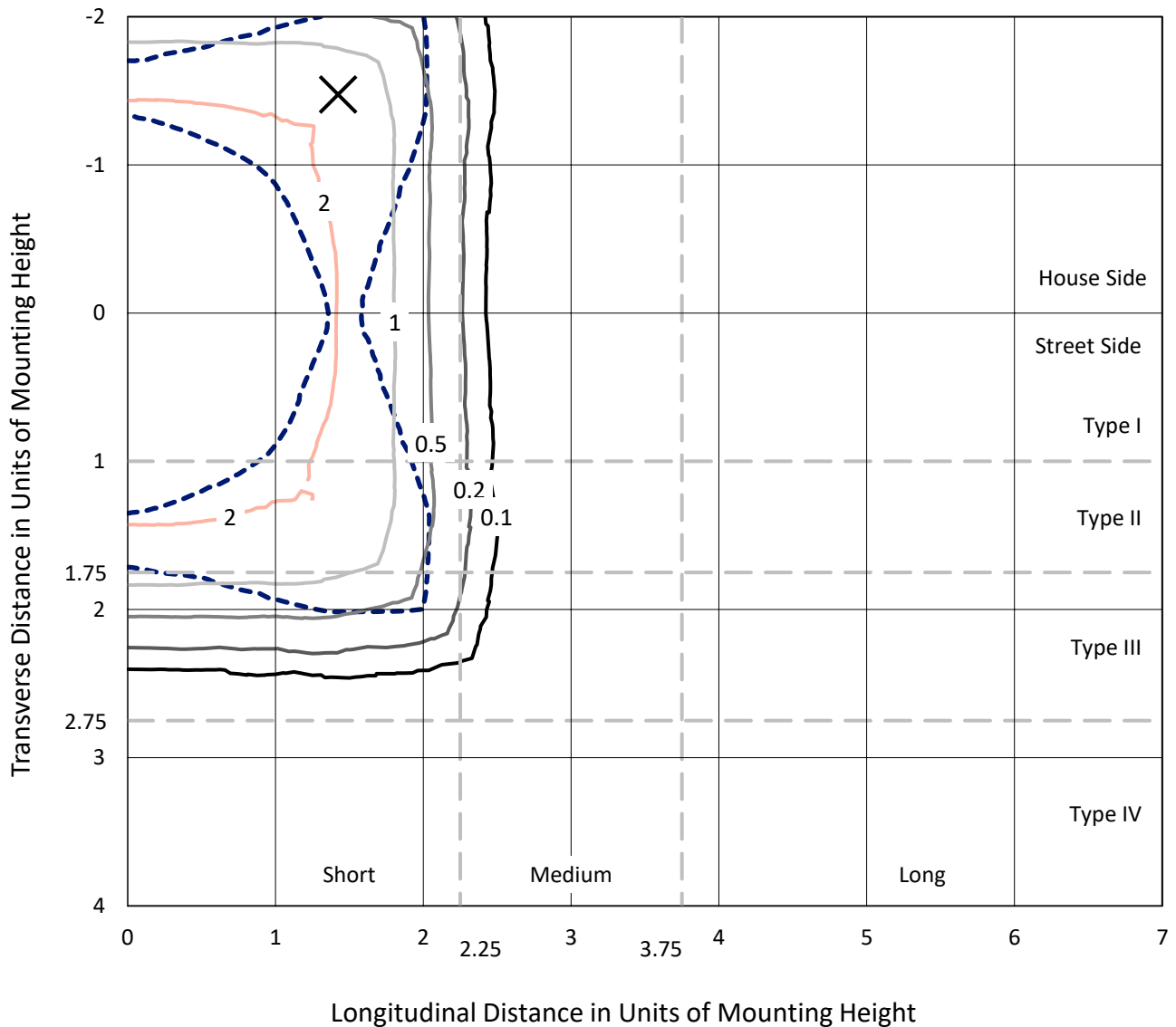
Lumens per Lamp: N/A
Luminaire Lumens: 30774.3 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 249.7
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

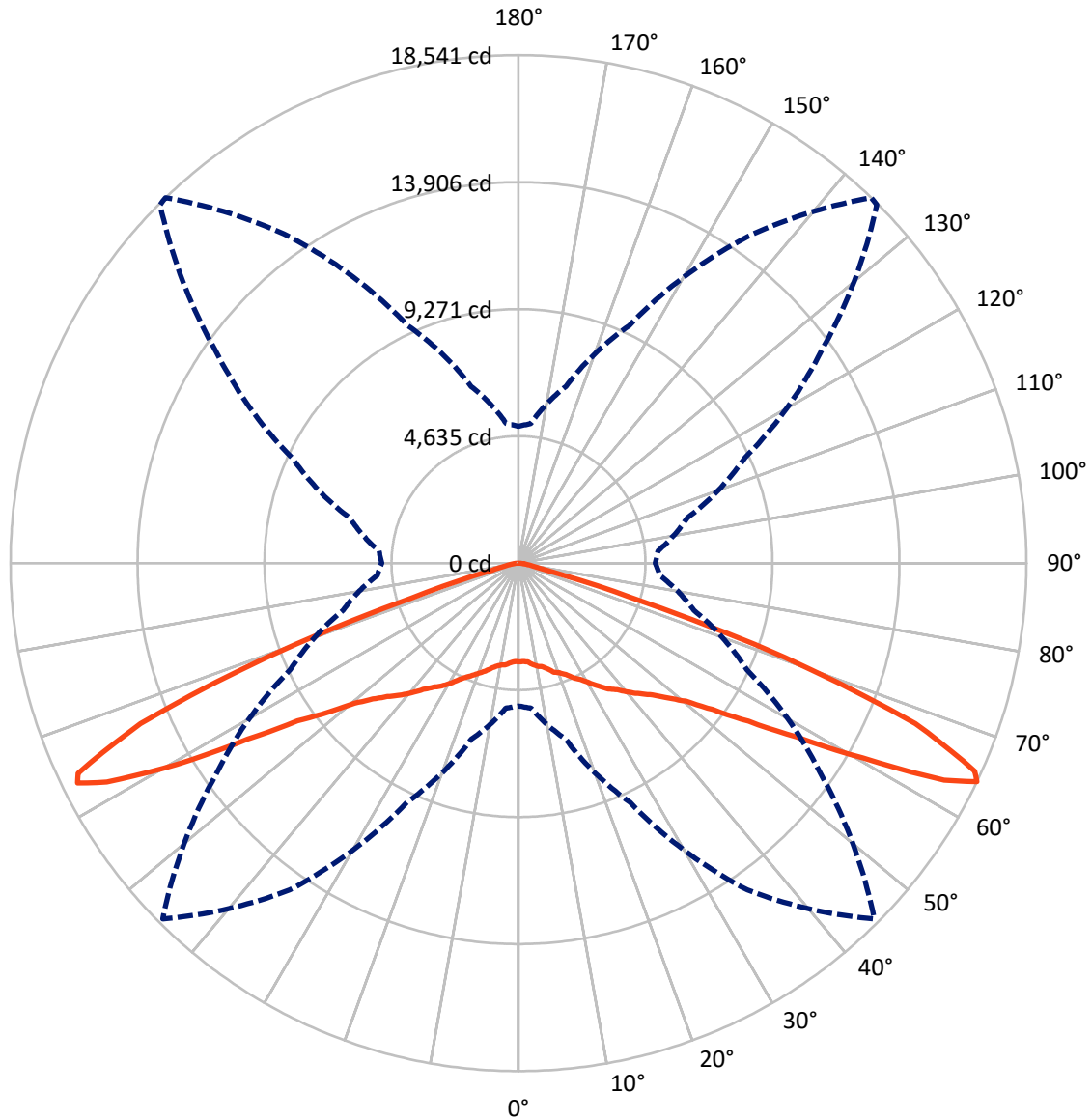
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.1 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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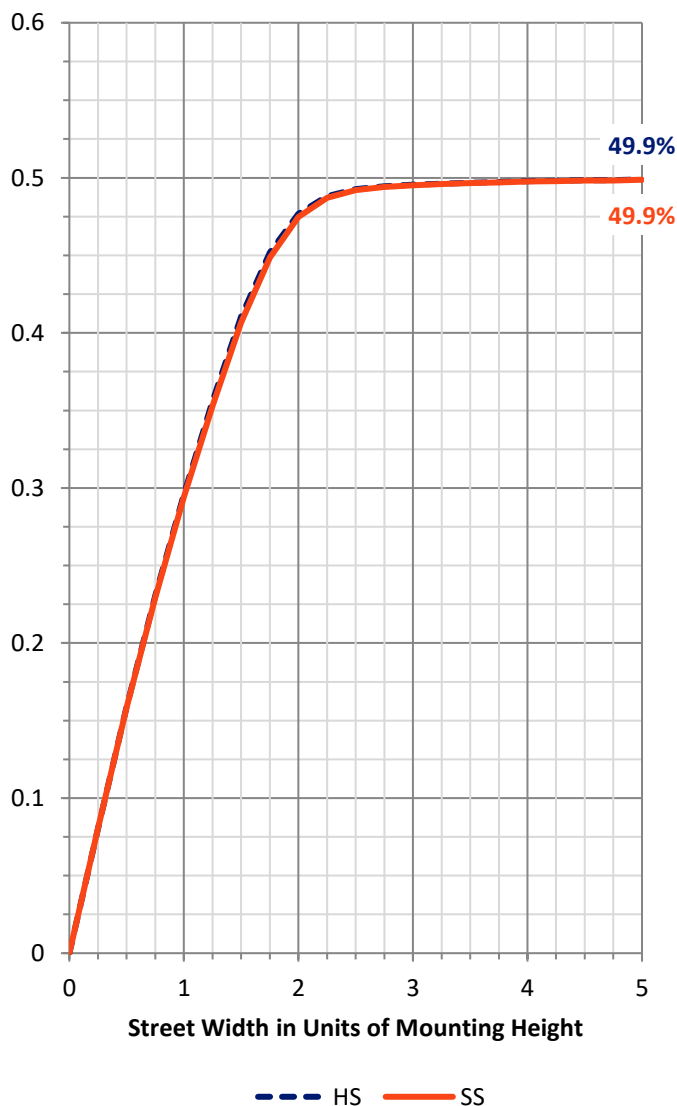
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15401.8	0.0	15401.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15372.5	0.0	15372.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30774.3	0.0	30774.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.0	1.2
10°-20°	1141.0	3.7
20°-30°	2144.5	7.0
30°-40°	3536.6	11.5
40°-50°	5531.0	18.0
50°-60°	8936.7	29.0
60°-70°	8046.9	26.1
70°-80°	953.2	3.1
80°-90°	130.5	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°	30774.3	100.0
0°-180°	30774.3	100.0

Coefficient of Utilization



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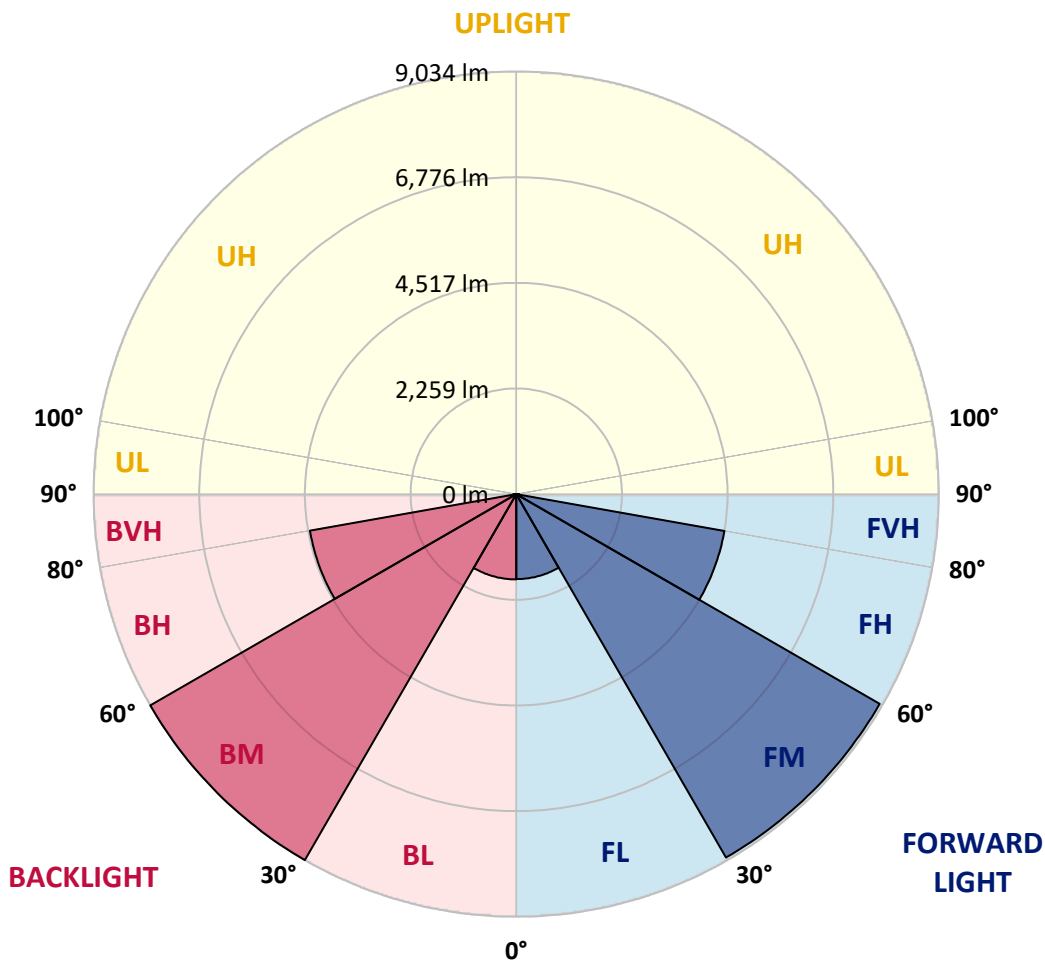
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1816.2	5.9			
FM (30°-60°)	8969.7	29.1			
FH (60°-80°)	4519.6	14.7			G2/5000
FVH (80°-90°)	66.9	0.2			G1/100
BL (0°-30°)	1823.3	5.9	B3/2500		
BM (30°-60°)	9034.5	29.4	B5		
BH (60°-80°)	4480.5	14.6	B4/5000		G2/5000
BVH (80°-90°)	63.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3603.0	3603.0	3603.0	3603.0	3603.0	3603.0	3603.0	3603.0	3603.0	3603.0	3603.0
2.5°	3560.7	3567.7	3631.3	3606.6	3627.7	3588.9	3617.2	3677.1	3606.6	3659.5	3677.1
5°	3599.5	3610.1	3610.1	3634.8	3648.9	3641.9	3659.5	3634.8	3701.8	3673.6	3716.0
7.5°	3740.7	3723.0	3694.8	3716.0	3719.5	3737.1	3754.8	3786.5	3776.0	3751.3	3793.6
10°	3765.4	3751.3	3793.6	3797.1	3779.5	3765.4	3783.0	3783.0	3814.8	3821.8	3821.8
12.5°	3807.7	3821.8	3818.3	3846.5	3850.1	3839.5	3867.7	3920.6	3906.5	3917.1	3892.4
15°	3970.0	3952.4	3948.9	3977.1	4023.0	3955.9	4005.3	4001.8	3987.7	4008.9	3952.4
17.5°	4111.2	4054.7	4079.4	4125.3	4107.7	4121.8	4185.3	4128.8	4143.0	4118.3	4100.6
20°	4234.7	4188.8	4192.4	4210.0	4210.0	4252.4	4277.1	4255.9	4241.8	4238.2	4245.3
22.5°	4372.3	4319.4	4322.9	4397.0	4421.7	4407.6	4390.0	4425.3	4432.3	4404.1	4435.9
25°	4474.7	4531.1	4548.8	4584.1	4531.1	4570.0	4555.8	4622.9	4665.2	4608.8	4647.6
27.5°	4742.9	4718.2	4764.1	4760.5	4802.9	4764.1	4788.8	4809.9	4827.6	4831.1	4813.5
30°	4982.8	4993.4	4947.6	5071.1	4972.3	5035.8	5078.1	5088.7	5109.9	5109.9	5057.0
32.5°	5236.9	5215.8	5289.9	5261.6	5244.0	5293.4	5247.5	5392.2	5307.5	5356.9	5296.9
35°	5522.8	5522.8	5551.0	5628.6	5522.8	5491.0	5575.7	5635.7	5635.7	5547.5	5568.7
37.5°	5843.9	5815.7	5851.0	5949.8	5868.6	5762.7	5918.0	5942.7	5925.1	5900.4	5858.0
40°	6069.8	6062.7	6133.3	6263.8	6147.4	6126.2	6154.5	6221.5	6242.7	6267.4	6210.9
42.5°	6450.9	6482.6	6687.3	6655.6	6560.3	6486.2	6479.1	6729.7	6669.7	6606.2	6574.4
45°	7015.5	6987.3	7093.1	7096.7	6973.2	6810.8	6846.1	7075.5	7177.8	7036.7	7089.6
47.5°	7463.7	7477.8	7551.9	7703.7	7417.8	7248.4	7379.0	7749.5	7717.8	7664.8	7714.2
50°	8063.6	8127.1	8360.0	8307.1	8053.0	7844.8	8130.7	8480.0	8518.8	8324.7	8289.5
52.5°	8892.9	8991.7	9118.8	9161.1	8917.6	8843.5	8861.1	9295.2	9199.9	9012.9	8892.9
55°	9619.9	9665.7	9898.6	10248.0	10230.4	9873.9	10078.6	10241.0	9852.8	9468.1	9499.9
57.5°	9930.4	9951.6	10600.9	11299.6	11716.0	11797.2	11564.3	11017.3	10092.7	9351.7	9305.8
60°	9157.6	9358.7	10142.1	11719.6	13621.7	14560.4	13011.2	11105.5	9531.6	8631.8	8564.7
62.5°	7319.0	7329.6	8494.1	10886.7	14807.4	17267.1	13565.2	10276.2	8035.4	7015.5	6747.3
64°	5212.2	5311.0	6648.5	9637.5	14560.4	18368.1	13498.2	9192.9	6623.8	5176.9	4989.9
65°	3740.7	3878.3	5169.9	8367.1	13981.6	18237.5	13297.0	8261.2	5356.9	3952.4	3761.8
67.5°	1376.3	1432.7	2029.1	4185.3	10039.8	15541.4	10537.4	4541.7	2353.8	1676.2	1506.9
70°	638.7	642.3	751.7	1383.3	4390.0	10392.7	5028.7	1704.5	885.8	702.3	652.9
72.5°	469.3	479.9	525.8	638.7	1291.6	4400.6	1651.5	698.7	518.8	458.8	448.2
75°	381.1	388.2	402.3	462.3	596.4	1178.7	670.5	483.5	412.9	370.5	356.4
77.5°	292.9	292.9	324.7	352.9	395.2	550.5	444.6	384.7	335.2	292.9	282.3
80°	211.7	215.3	254.1	275.3	268.2	363.5	321.1	317.6	275.3	229.4	211.7
82.5°	123.5	134.1	183.5	197.6	190.6	215.3	232.9	247.0	215.3	158.8	144.7
85°	70.6	74.1	105.9	109.4	109.4	102.3	134.1	148.2	144.7	98.8	88.2
87.5°	21.2	21.2	28.2	28.2	31.8	35.3	52.9	63.5	70.6	49.4	45.9
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°	3603.0	3603.0	3603.0	3603.0	3603.0	3603.0	3603.0	3603.0	3603.0	3603.0	3603.0
2.5°	3659.5	3606.6	3610.1	3624.2	3578.3	3596.0	3648.9	3610.1	3599.5	3578.3	3567.7
5°	3641.9	3698.3	3677.1	3684.2	3673.6	3624.2	3617.2	3648.9	3666.6	3634.8	3698.3
7.5°	3765.4	3740.7	3712.4	3723.0	3698.3	3740.7	3768.9	3705.4	3737.1	3719.5	3684.2
10°	3835.9	3790.1	3811.2	3804.2	3786.5	3828.9	3800.7	3793.6	3765.4	3726.5	3783.0
12.5°	3860.6	3913.6	3948.9	3888.9	3899.5	3878.3	3860.6	3860.6	3828.9	3818.3	3828.9
15°	3970.0	4015.9	4001.8	4047.7	3987.7	4008.9	4030.0	3977.1	4005.3	3927.7	3987.7
17.5°	4171.2	4132.4	4181.8	4121.8	4143.0	4185.3	4118.3	4118.3	4139.4	4097.1	4044.2
20°	4298.2	4280.6	4262.9	4266.5	4231.2	4270.0	4248.8	4238.2	4206.5	4220.6	4248.8
22.5°	4418.2	4393.5	4400.6	4411.2	4435.9	4418.2	4407.6	4418.2	4340.6	4411.2	4312.4
25°	4566.4	4633.5	4612.3	4658.2	4587.6	4633.5	4630.0	4562.9	4605.3	4577.0	4555.8
27.5°	4813.5	4778.2	4809.9	4753.5	4802.9	4806.4	4764.1	4877.0	4827.6	4820.5	4806.4
30°	5131.1	5106.4	5085.2	5053.4	5092.2	5060.5	5095.8	5106.4	5060.5	5025.2	4958.1
32.5°	5311.0	5378.1	5402.8	5325.2	5328.7	5346.3	5314.6	5282.8	5311.0	5321.6	5311.0
35°	5565.1	5628.6	5642.8	5582.8	5551.0	5639.2	5575.7	5681.6	5589.8	5593.4	5498.1
37.5°	5861.6	5879.2	5999.2	5932.1	5903.9	5861.6	5978.0	5963.9	5985.1	5815.7	5900.4
40°	6196.8	6260.3	6327.4	6158.0	6154.5	6193.3	6186.2	6267.4	6228.6	6203.9	6143.9
42.5°	6563.8	6697.9	6708.5	6595.6	6525.0	6517.9	6553.2	6733.2	6736.7	6574.4	6503.8
45°	7050.8	7199.0	7160.2	6941.4	6863.8	6853.2	7026.1	7103.7	7170.8	7107.3	7047.3
47.5°	7657.8	7756.6	7728.4	7527.2	7276.7	7347.2	7516.6	7760.1	7689.5	7604.8	7534.3
50°	8307.1	8423.6	8363.6	8162.4	7922.4	7922.4	8130.7	8441.2	8420.0	8254.2	8190.6
52.5°	9027.0	9196.4	9334.0	9048.2	8847.0	8878.8	9207.0	9319.9	9267.0	9150.5	9097.6
55°	9563.4	9888.1	10170.4	10184.5	10195.1	10191.5	10276.2	10389.2	10011.6	9824.5	9634.0
57.5°	9432.8	10046.9	11013.8	11670.2	11864.3	11966.6	11938.4	11416.1	10523.3	9909.2	9972.8
60°	8501.2	9503.4	11063.2	13170.0	14581.5	14440.4	13925.2	11860.7	10241.0	9203.4	9072.9
62.5°	6782.6	7989.5	10233.9	13593.4	17482.3	17440.0	14743.9	10833.8	8533.0	7220.2	7139.0
64°	5109.9	6380.3	9129.3	13484.0	18498.6	18541.0	14535.7	9570.5	6676.7	5109.9	4986.4
65°	3910.1	5088.7	8046.0	13258.2	18279.9	18304.6	13956.9	8264.8	5074.6	3627.7	3493.6
67.5°	1556.3	2166.8	4365.3	10053.9	15696.7	15629.6	9958.6	3998.3	1940.9	1263.4	1238.7
70°	663.4	825.8	1531.6	4764.1	10509.2	10315.1	4287.6	1298.6	719.9	603.4	599.9
72.5°	455.2	504.6	656.4	1471.6	4368.8	4266.5	1221.0	603.4	490.5	451.7	451.7
75°	367.0	402.3	476.4	617.6	1157.5	1115.1	575.2	444.6	391.7	363.5	360.0
77.5°	285.8	321.1	374.1	427.0	529.3	525.8	384.7	335.2	303.5	282.3	275.3
80°	225.9	261.1	296.4	303.5	345.8	338.8	261.1	264.7	247.0	204.7	201.1
82.5°	155.3	211.7	236.4	215.3	204.7	204.7	187.0	187.0	172.9	127.0	116.5
85°	95.3	141.2	148.2	127.0	95.3	95.3	102.3	98.8	91.8	67.0	63.5
87.5°	49.4	67.0	60.0	49.4	31.8	31.8	28.2	21.2	21.2	17.6	17.6
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)