

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: P478807

Luminaire Tested: **IFLD-L-SA7C-722-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478807
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-722-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

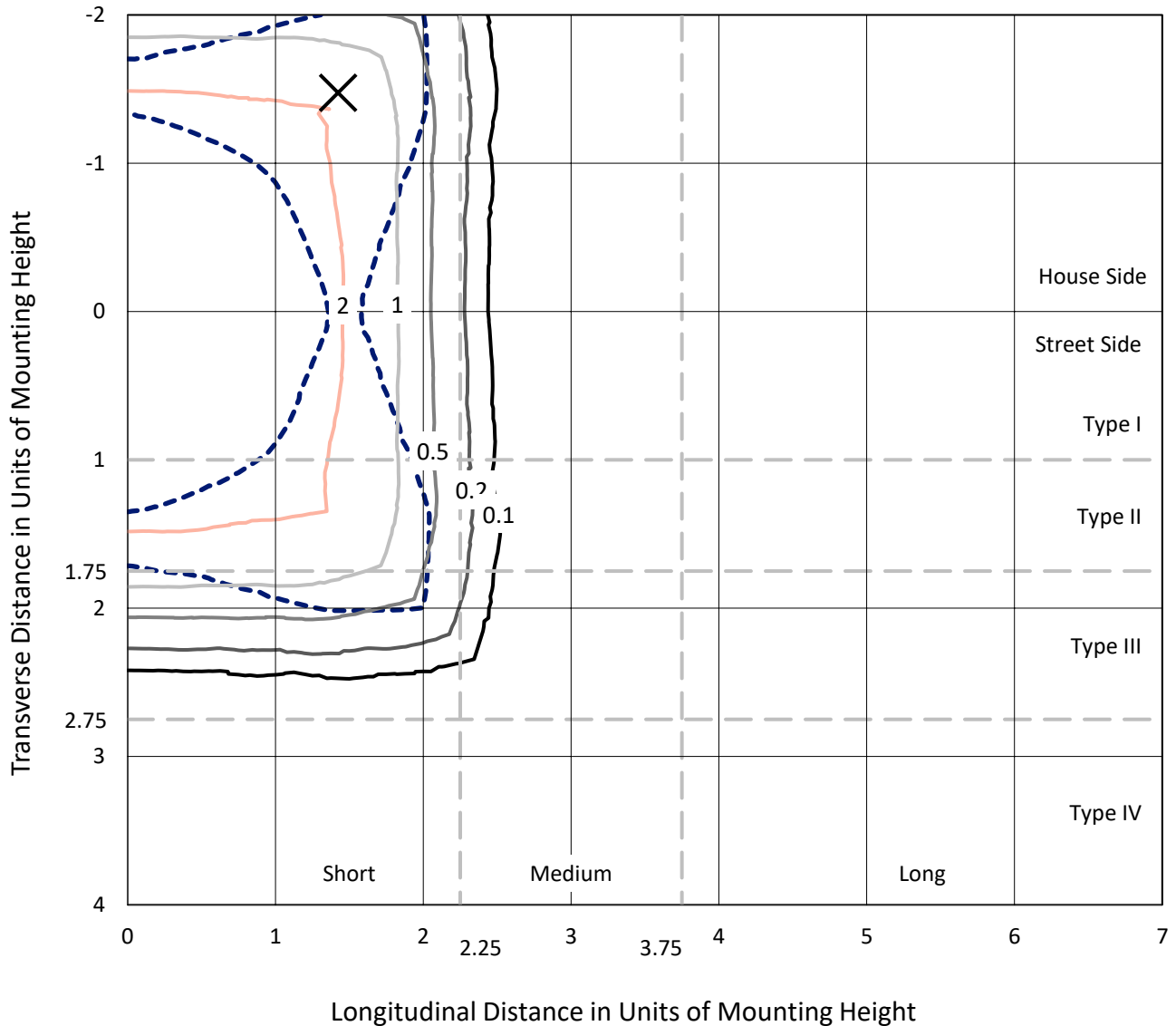
Lumens per Lamp: N/A
Luminaire Lumens: 32568.4 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 369
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

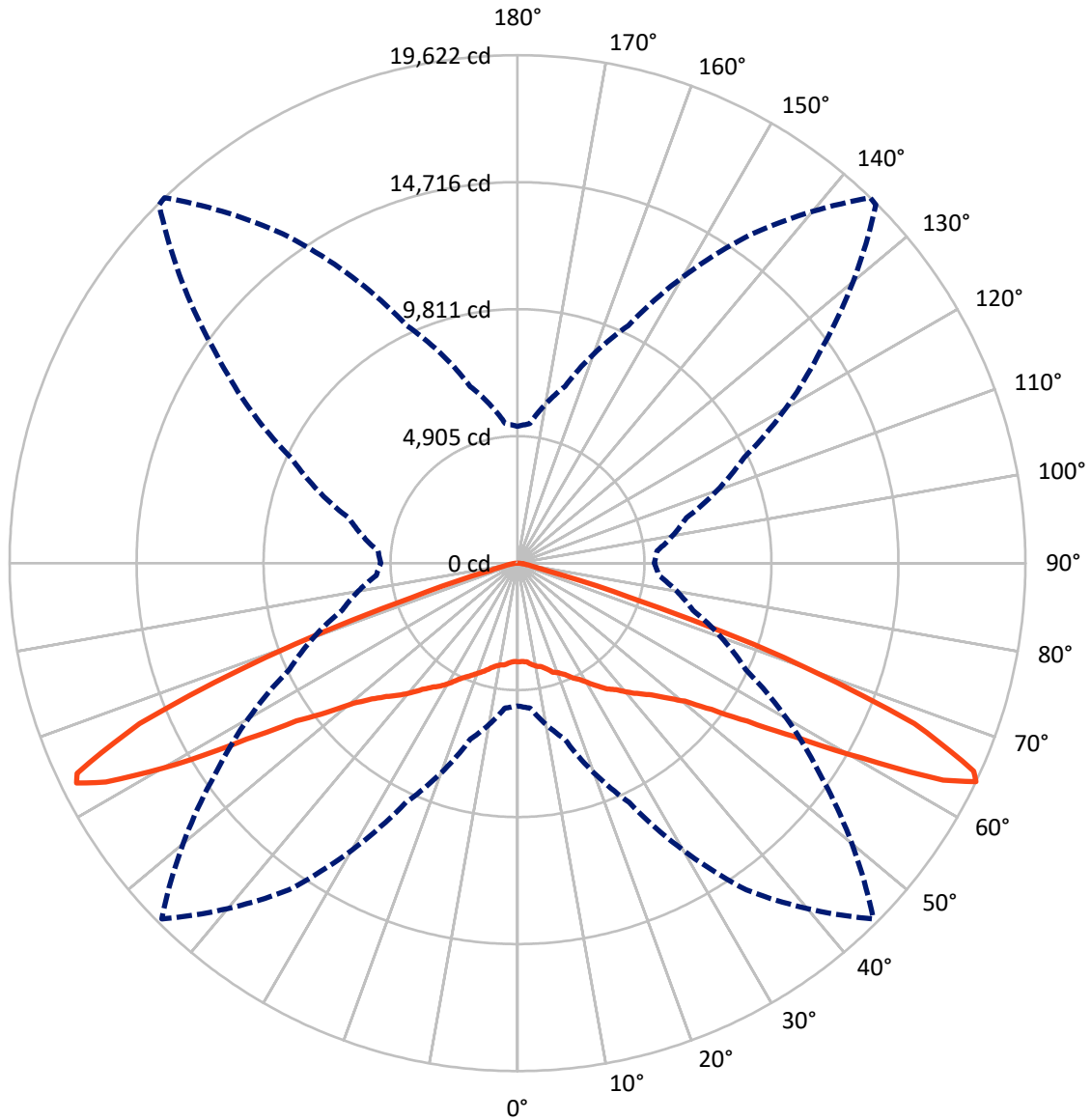
✕ Max cd
 - - - 1/2 Max cd



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

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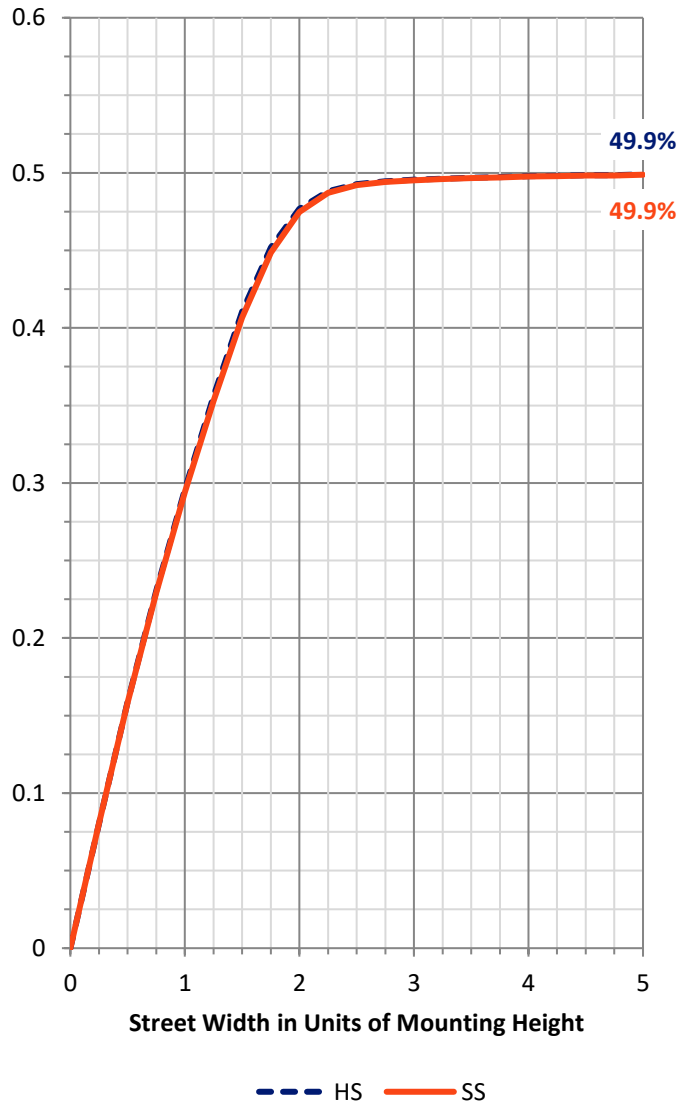
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16299.7	0.0	16299.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16268.7	0.0	16268.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	32568.4	0.0	32568.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.7	1.2
10°-20°	1207.5	3.7
20°-30°	2269.5	7.0
30°-40°	3742.7	11.5
40°-50°	5853.4	18.0
50°-60°	9457.7	29.0
60°-70°	8516.0	26.1
70°-80°	1008.8	3.1
80°-90°	138.1	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°	32568.4	100.0
0°-180°	32568.4	100.0

Coefficient of Utilization



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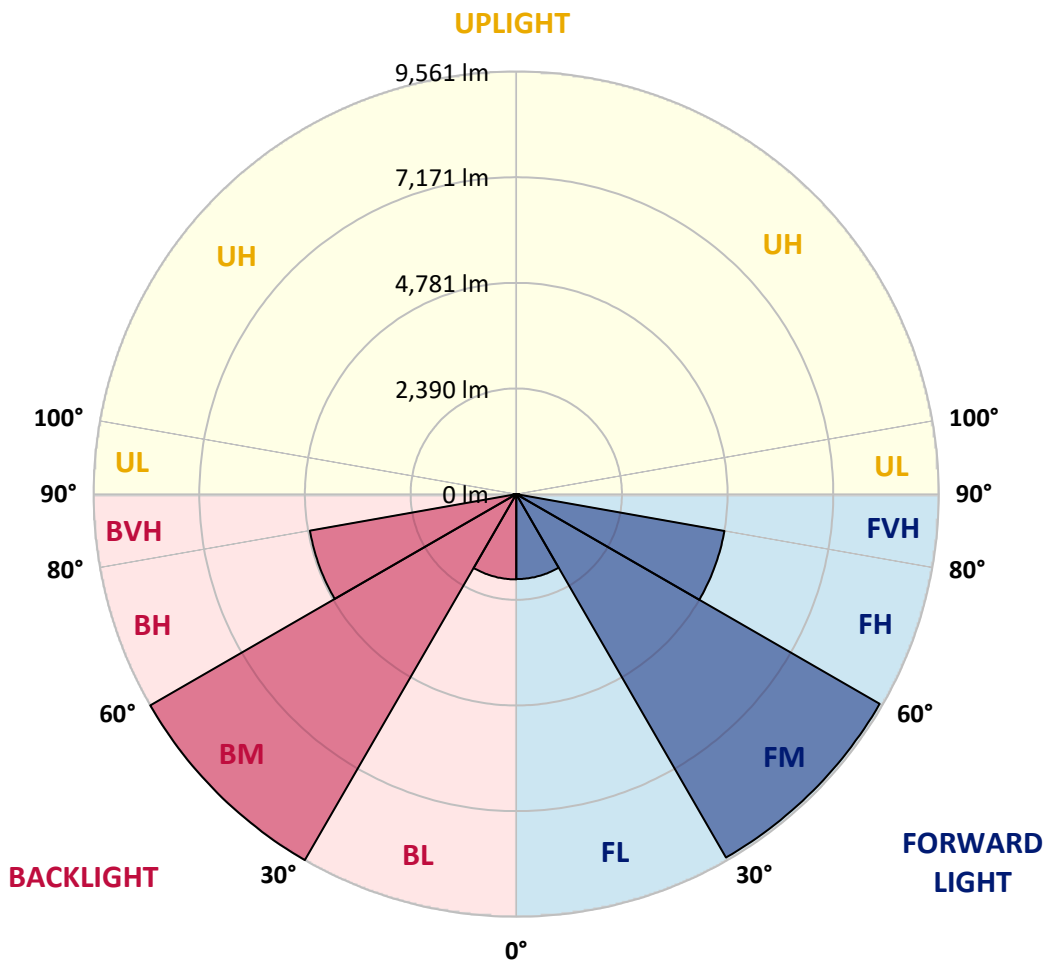
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1922.1	5.9			
FM (30°-60°)	9492.7	29.1			
FH (60°-80°)	4783.0	14.7			G2/5000
FVH (80°-90°)	70.8	0.2			G1/100
BL (0°-30°)	1929.5	5.9	B3/2500		
BM (30°-60°)	9561.2	29.4	B5		
BH (60°-80°)	4741.8	14.6	B4/5000		G2/5000
BVH (80°-90°)	67.2	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°	3813.1	3813.1	3813.1	3813.1	3813.1	3813.1	3813.1	3813.1	3813.1	3813.1	3813.1
2.5°	3768.3	3775.7	3843.0	3816.8	3839.2	3798.1	3828.0	3891.5	3816.8	3872.8	3891.5
5°	3809.3	3820.6	3820.6	3846.7	3861.6	3854.2	3872.8	3846.7	3917.7	3887.8	3932.6
7.5°	3958.7	3940.1	3910.2	3932.6	3936.3	3955.0	3973.7	4007.3	3996.1	3969.9	4014.8
10°	3984.9	3969.9	4014.8	4018.5	3999.8	3984.9	4003.6	4003.6	4037.2	4044.6	4044.6
12.5°	4029.7	4044.6	4040.9	4070.8	4074.5	4063.3	4093.2	4149.2	4134.3	4145.5	4119.3
15°	4201.5	4182.8	4179.1	4209.0	4257.5	4186.5	4238.8	4235.1	4220.2	4242.6	4182.8
17.5°	4350.9	4291.1	4317.3	4365.8	4347.1	4362.1	4429.3	4369.5	4384.5	4358.3	4339.7
20°	4481.6	4433.0	4436.8	4455.4	4455.4	4500.3	4526.4	4504.0	4489.1	4485.3	4492.8
22.5°	4627.2	4571.2	4575.0	4653.4	4679.5	4664.6	4645.9	4683.3	4690.7	4660.8	4694.5
25°	4735.5	4795.3	4814.0	4851.3	4795.3	4836.4	4821.4	4892.4	4937.2	4877.5	4918.5
27.5°	5019.4	4993.2	5041.8	5038.0	5082.9	5041.8	5067.9	5090.3	5109.0	5112.7	5094.1
30°	5273.3	5284.5	5236.0	5366.7	5262.1	5329.4	5374.2	5385.4	5407.8	5407.8	5351.8
32.5°	5542.2	5519.8	5598.2	5568.4	5549.7	5602.0	5553.4	5706.6	5616.9	5669.2	5605.7
35°	5844.7	5844.7	5874.6	5956.8	5844.7	5811.1	5900.8	5964.2	5964.2	5870.9	5893.3
37.5°	6184.6	6154.7	6192.1	6296.6	6210.7	6098.7	6263.0	6289.2	6270.5	6244.3	6199.5
40°	6423.6	6416.1	6490.8	6629.0	6505.8	6483.4	6513.2	6584.2	6606.6	6632.7	6573.0
42.5°	6826.9	6860.6	7077.2	7043.6	6942.7	6864.3	6856.8	7122.0	7058.5	6991.3	6957.7
45°	7424.5	7394.6	7506.7	7510.4	7379.7	7207.9	7245.2	7488.0	7596.3	7446.9	7502.9
47.5°	7898.8	7913.7	7992.2	8152.8	7850.2	7671.0	7809.2	8201.3	8167.7	8111.7	8164.0
50°	8533.7	8600.9	8847.4	8791.4	8522.5	8302.1	8604.6	8974.4	9015.5	8810.1	8772.7
52.5°	9411.3	9515.9	9650.3	9695.2	9437.5	9359.0	9377.7	9837.1	9736.2	9538.3	9411.3
55°	10180.7	10229.2	10475.7	10845.4	10826.8	10449.6	10666.2	10838.0	10427.2	10020.1	10053.7
57.5°	10509.3	10531.7	11218.9	11958.4	12399.1	12485.0	12238.5	11659.6	10681.1	9896.8	9848.3
60°	9691.4	9904.3	10733.4	12402.8	14415.8	15409.2	13769.7	11753.0	10087.3	9135.0	9064.0
62.5°	7745.7	7756.9	8989.3	11521.4	15670.6	18273.7	14356.0	10875.3	8503.8	7424.5	7140.7
64°	5516.1	5620.7	7036.1	10199.3	15409.2	19438.9	14285.1	9728.8	7009.9	5478.7	5280.8
65°	3958.7	4104.4	5471.3	8854.9	14796.7	19300.7	14072.2	8742.8	5669.2	4182.8	3981.1
67.5°	1456.5	1516.3	2147.4	4429.3	10625.1	16447.4	11151.7	4806.5	2491.0	1774.0	1594.7
70°	676.0	679.7	795.5	1464.0	4645.9	10998.6	5321.9	1803.8	937.4	743.2	690.9
72.5°	496.7	507.9	556.5	676.0	1366.9	4657.1	1747.8	739.5	549.0	485.5	474.3
75°	403.3	410.8	425.8	489.2	631.2	1247.4	709.6	511.6	437.0	392.1	377.2
77.5°	310.0	310.0	343.6	373.5	418.3	582.6	470.6	407.1	354.8	310.0	298.8
80°	224.1	227.8	268.9	291.3	283.8	384.7	339.9	336.1	291.3	242.8	224.1
82.5°	130.7	141.9	194.2	209.1	201.7	227.8	246.5	261.4	227.8	168.1	153.1
85°	74.7	78.4	112.0	115.8	115.8	108.3	141.9	156.9	153.1	104.6	93.4
87.5°	22.4	22.4	29.9	29.9	33.6	37.3	56.0	67.2	74.7	52.3	48.6
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):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	3813.1	3813.1	3813.1	3813.1	3813.1	3813.1	3813.1	3813.1	3813.1	3813.1	3813.1
2.5°	3872.8	3816.8	3820.6	3835.5	3786.9	3805.6	3861.6	3820.6	3809.3	3786.9	3775.7
5°	3854.2	3913.9	3891.5	3899.0	3887.8	3835.5	3828.0	3861.6	3880.3	3846.7	3913.9
7.5°	3984.9	3958.7	3928.9	3940.1	3913.9	3958.7	3988.6	3921.4	3955.0	3936.3	3899.0
10°	4059.6	4011.0	4033.4	4026.0	4007.3	4052.1	4022.2	4014.8	3984.9	3943.8	4003.6
12.5°	4085.7	4141.7	4179.1	4115.6	4126.8	4104.4	4085.7	4085.7	4052.1	4040.9	4052.1
15°	4201.5	4250.0	4235.1	4283.6	4220.2	4242.6	4265.0	4209.0	4238.8	4156.7	4220.2
17.5°	4414.4	4373.3	4425.6	4362.1	4384.5	4429.3	4358.3	4358.3	4380.8	4335.9	4279.9
20°	4548.8	4530.1	4511.5	4515.2	4477.9	4518.9	4496.5	4485.3	4451.7	4466.6	4496.5
22.5°	4675.8	4649.6	4657.1	4668.3	4694.5	4675.8	4664.6	4675.8	4593.6	4668.3	4563.7
25°	4832.6	4903.6	4881.2	4929.7	4855.1	4903.6	4899.9	4828.9	4873.7	4843.8	4821.4
27.5°	5094.1	5056.7	5090.3	5030.6	5082.9	5086.6	5041.8	5161.3	5109.0	5101.5	5086.6
30°	5430.2	5404.0	5381.6	5348.0	5389.1	5355.5	5392.8	5404.0	5355.5	5318.1	5247.2
32.5°	5620.7	5691.6	5717.8	5635.6	5639.3	5658.0	5624.4	5590.8	5620.7	5631.9	5620.7
35°	5889.6	5956.8	5971.7	5908.2	5874.6	5968.0	5900.8	6012.8	5915.7	5919.4	5818.6
37.5°	6203.3	6221.9	6348.9	6278.0	6248.1	6203.3	6326.5	6311.6	6334.0	6154.7	6244.3
40°	6558.1	6625.3	6696.2	6517.0	6513.2	6554.3	6546.9	6632.7	6591.7	6565.5	6502.0
42.5°	6946.5	7088.4	7099.6	6980.1	6905.4	6897.9	6935.3	7125.7	7129.5	6957.7	6883.0
45°	7461.8	7618.7	7577.6	7346.1	7263.9	7252.7	7435.7	7517.9	7588.8	7521.6	7458.1
47.5°	8104.2	8208.8	8178.9	7966.0	7700.9	7775.6	7954.8	8212.5	8137.8	8048.2	7973.5
50°	8791.4	8914.6	8851.1	8638.3	8384.3	8384.3	8604.6	8933.3	8910.9	8735.4	8668.1
52.5°	9553.2	9732.5	9878.2	9575.7	9362.8	9396.4	9743.7	9863.2	9807.2	9684.0	9627.9
55°	10120.9	10464.5	10763.3	10778.2	10789.4	10785.7	10875.3	10994.8	10595.2	10397.3	10195.6
57.5°	9982.7	10632.6	11655.9	12350.5	12555.9	12664.2	12634.3	12081.6	11136.7	10486.9	10554.1
60°	8996.8	10057.4	11708.1	13937.7	15431.6	15282.2	14736.9	12552.2	10838.0	9740.0	9601.8
62.5°	7178.0	8455.3	10830.5	14385.9	18501.5	18456.7	15603.4	11465.4	9030.4	7641.1	7555.2
64°	5407.8	6752.3	9661.6	14270.1	19577.1	19621.9	15383.0	10128.4	7066.0	5407.8	5277.1
65°	4138.0	5385.4	8515.0	14031.1	19345.5	19371.7	14770.6	8746.6	5370.4	3839.2	3697.3
67.5°	1647.0	2293.1	4619.8	10640.0	16611.7	16540.8	10539.2	4231.4	2054.1	1337.0	1310.9
70°	702.1	873.9	1620.8	5041.8	11121.8	10916.4	4537.6	1374.4	761.9	638.6	634.9
72.5°	481.8	534.1	694.6	1557.4	4623.5	4515.2	1292.2	638.6	519.1	478.0	478.0
75°	388.4	425.8	504.2	653.6	1225.0	1180.2	608.7	470.6	414.5	384.7	380.9
77.5°	302.5	339.9	395.9	451.9	560.2	556.5	407.1	354.8	321.2	298.8	291.3
80°	239.0	276.4	313.7	321.2	366.0	358.5	276.4	280.1	261.4	216.6	212.9
82.5°	164.3	224.1	250.2	227.8	216.6	216.6	197.9	197.9	183.0	134.4	123.2
85°	100.8	149.4	156.9	134.4	100.8	100.8	108.3	104.6	97.1	71.0	67.2
87.5°	52.3	71.0	63.5	52.3	33.6	33.6	29.9	22.4	22.4	18.7	18.7
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)