

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: P478884

Luminaire Tested: **IFLD-L-SA7B-730-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478884
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-730-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

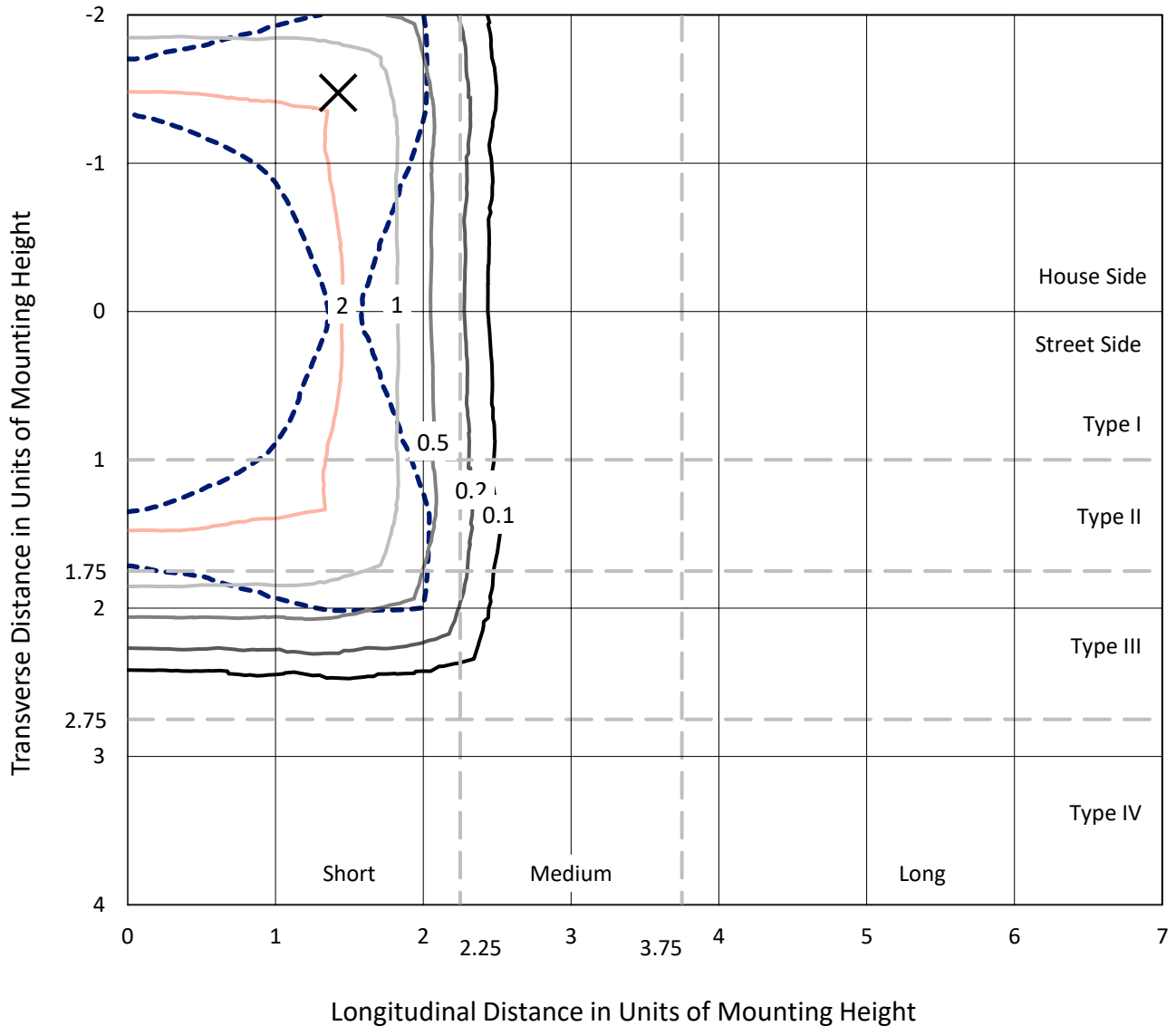
Lumens per Lamp: N/A
Luminaire Lumens: 32343.2 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 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

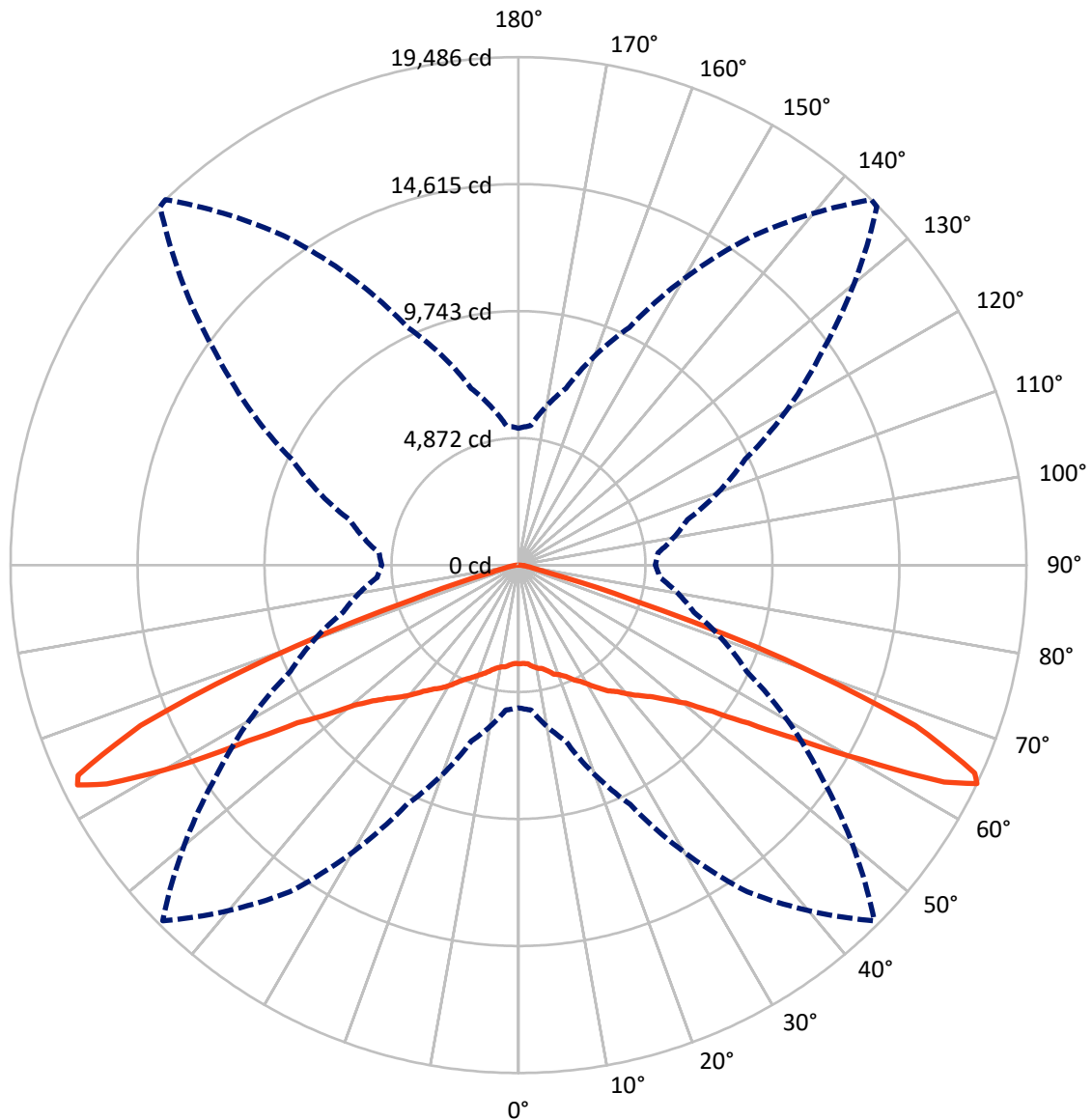
× Max cd
 - - - 1/2 Max cd



Based on 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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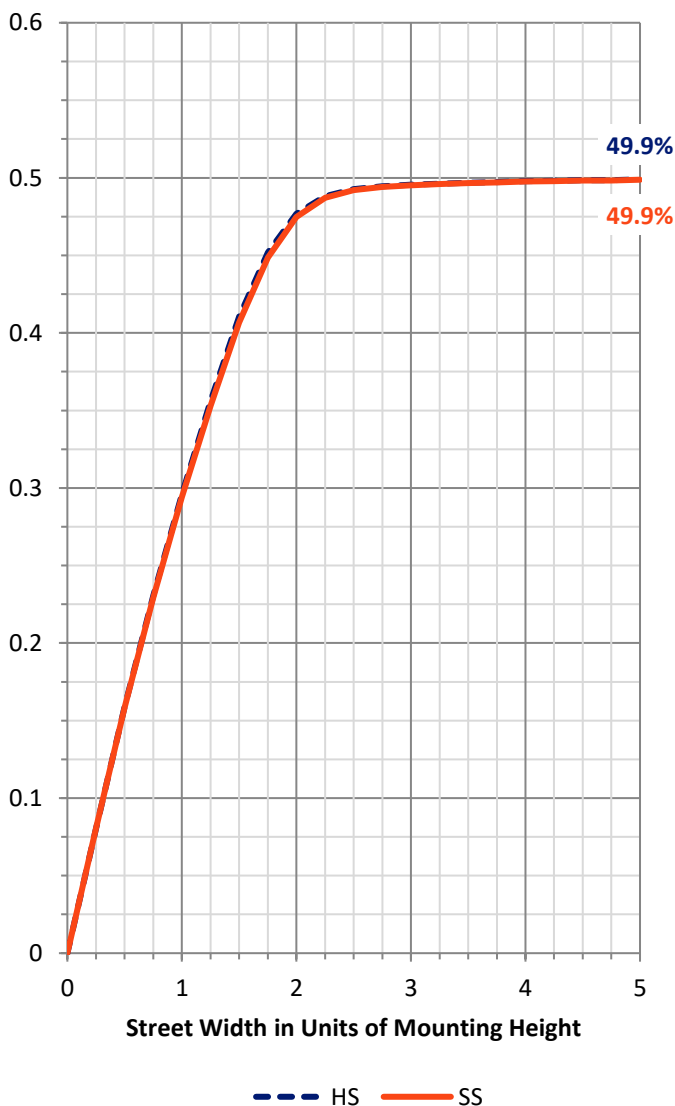
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16187.0	0.0	16187.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16156.2	0.0	16156.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	32343.2	0.0	32343.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.1	1.2
10°-20°	1199.2	3.7
20°-30°	2253.8	7.0
30°-40°	3716.9	11.5
40°-50°	5812.9	18.0
50°-60°	9392.3	29.0
60°-70°	8457.1	26.1
70°-80°	1001.8	3.1
80°-90°	137.1	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°	32343.2	100.0
0°-180°	32343.2	100.0

Coefficient of Utilization



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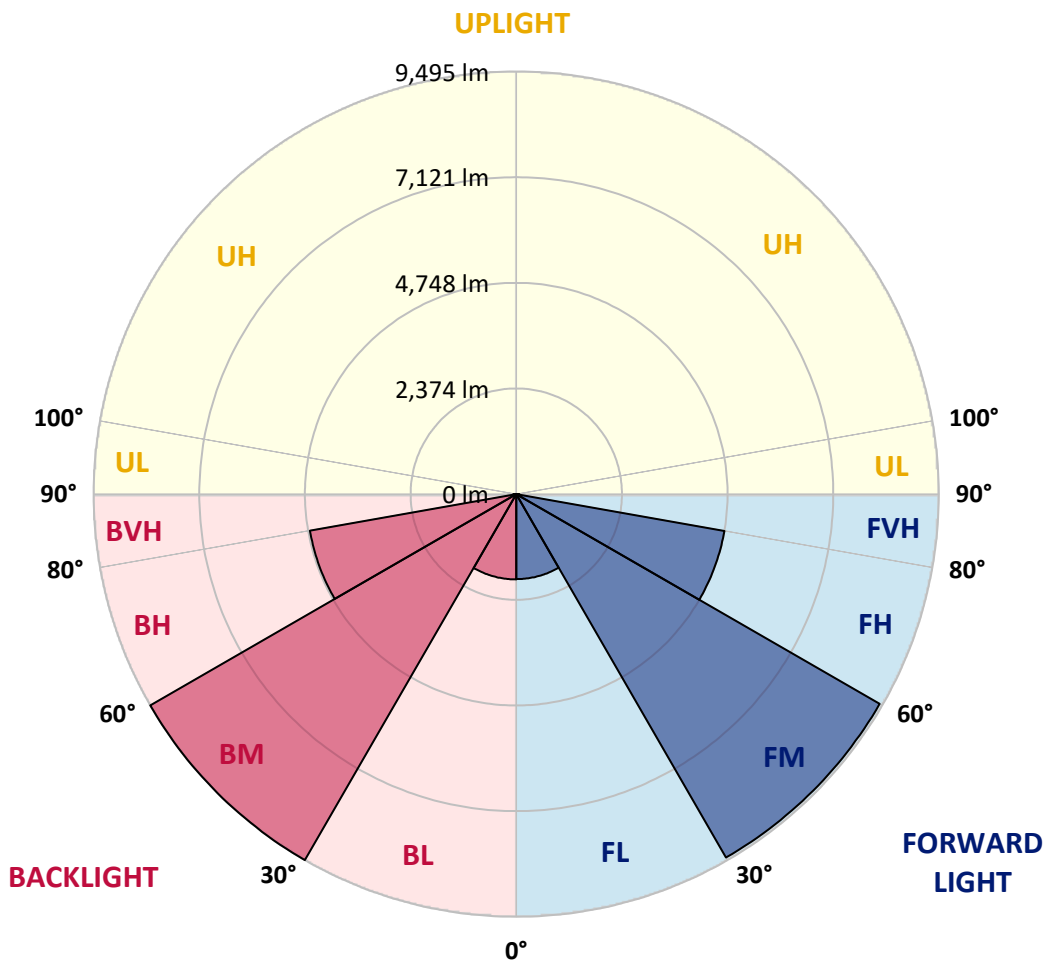
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1908.8	5.9			
FM (30°-60°)	9427.0	29.1			
FH (60°-80°)	4750.0	14.7			G2/5000
FVH (80°-90°)	70.3	0.2			G1/100
BL (0°-30°)	1916.2	5.9	B3/2500		
BM (30°-60°)	9495.1	29.4	B5		
BH (60°-80°)	4709.0	14.6	B4/5000		G2/5000
BVH (80°-90°)	66.8	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°	3786.7	3786.7	3786.7	3786.7	3786.7	3786.7	3786.7	3786.7	3786.7	3786.7	3786.7
2.5°	3742.2	3749.6	3816.4	3790.4	3812.7	3771.9	3801.6	3864.6	3790.4	3846.1	3864.6
5°	3783.0	3794.1	3794.1	3820.1	3834.9	3827.5	3846.1	3820.1	3890.6	3860.9	3905.4
7.5°	3931.4	3912.8	3883.2	3905.4	3909.1	3927.7	3946.2	3979.6	3968.5	3942.5	3987.0
10°	3957.3	3942.5	3987.0	3990.7	3972.2	3957.3	3975.9	3975.9	4009.3	4016.7	4016.7
12.5°	4001.8	4016.7	4013.0	4042.6	4046.3	4035.2	4064.9	4120.5	4105.7	4116.8	4090.8
15°	4172.4	4153.9	4150.2	4179.9	4228.1	4157.6	4209.5	4205.8	4191.0	4213.2	4153.9
17.5°	4320.8	4261.5	4287.4	4335.6	4317.1	4331.9	4398.7	4339.3	4354.2	4328.2	4309.7
20°	4450.6	4402.4	4406.1	4424.6	4424.6	4469.1	4495.1	4472.9	4458.0	4454.3	4461.7
22.5°	4595.2	4539.6	4543.3	4621.2	4647.2	4632.3	4613.8	4650.9	4658.3	4628.6	4662.0
25°	4702.8	4762.1	4780.7	4817.8	4762.1	4802.9	4788.1	4858.6	4903.1	4843.7	4884.5
27.5°	4984.7	4958.7	5006.9	5003.2	5047.7	5006.9	5032.9	5055.1	5073.7	5077.4	5058.9
30°	5236.9	5248.0	5199.8	5329.6	5225.8	5292.5	5337.0	5348.1	5370.4	5370.4	5314.8
32.5°	5503.9	5481.7	5559.5	5529.9	5511.3	5563.3	5515.0	5667.1	5578.1	5630.0	5567.0
35°	5804.3	5804.3	5834.0	5915.6	5804.3	5770.9	5860.0	5923.0	5923.0	5830.3	5852.5
37.5°	6141.8	6112.2	6149.3	6253.1	6167.8	6056.5	6219.7	6245.7	6227.1	6201.2	6156.7
40°	6379.2	6371.8	6446.0	6583.2	6460.8	6438.5	6468.2	6538.7	6560.9	6586.9	6527.6
42.5°	6779.8	6813.1	7028.2	6994.9	6894.7	6816.8	6809.4	7072.8	7009.7	6942.9	6909.6
45°	7373.2	7343.5	7454.8	7458.5	7328.7	7158.1	7195.1	7436.2	7543.8	7395.4	7451.1
47.5°	7844.2	7859.0	7936.9	8096.4	7796.0	7617.9	7755.2	8144.6	8111.2	8055.6	8107.5
50°	8474.7	8541.4	8786.2	8730.6	8463.6	8244.7	8545.2	8912.3	8953.1	8749.1	8712.1
52.5°	9346.3	9450.1	9583.6	9628.1	9372.2	9294.3	9312.9	9769.1	9668.9	9472.4	9346.3
55°	10110.3	10158.5	10403.3	10770.5	10751.9	10377.3	10592.4	10763.0	10355.1	9950.8	9984.2
57.5°	10436.7	10458.9	11141.3	11875.7	12313.3	12398.6	12153.9	11579.0	10607.3	9828.4	9780.2
60°	9624.4	9835.8	10659.2	12317.0	14316.1	15302.7	13674.5	11671.7	10017.6	9071.8	9001.3
62.5°	7692.1	7703.3	8927.2	11441.8	15562.3	18147.3	14256.8	10800.1	8445.0	7373.2	7091.3
64°	5478.0	5581.8	6987.4	10128.8	15302.7	19304.5	14186.3	9661.5	6961.5	5440.9	5244.3
65°	3931.4	4076.0	5433.4	8793.7	14694.4	19167.3	13974.9	8682.4	5630.0	4153.9	3953.6
67.5°	1446.4	1505.8	2132.6	4398.7	10551.6	16333.7	11074.6	4773.3	2473.8	1761.7	1583.7
70°	671.3	675.0	790.0	1453.9	4613.8	10922.5	5285.1	1791.4	930.9	738.1	686.1
72.5°	493.3	504.4	552.6	671.3	1357.4	4624.9	1735.7	734.3	545.2	482.1	471.0
75°	400.6	408.0	422.8	485.9	626.8	1238.8	704.7	508.1	433.9	389.4	374.6
77.5°	307.8	307.8	341.2	370.9	415.4	578.6	467.3	404.3	352.3	307.8	296.7
80°	222.5	226.2	267.0	289.3	281.9	382.0	337.5	333.8	289.3	241.1	222.5
82.5°	129.8	140.9	192.9	207.7	200.3	226.2	244.8	259.6	226.2	166.9	152.1
85°	74.2	77.9	111.3	115.0	115.0	107.6	140.9	155.8	152.1	103.8	92.7
87.5°	22.3	22.3	29.7	29.7	33.4	37.1	55.6	66.8	74.2	51.9	48.2
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°	3786.7	3786.7	3786.7	3786.7	3786.7	3786.7	3786.7	3786.7	3786.7	3786.7	3786.7
2.5°	3846.1	3790.4	3794.1	3809.0	3760.8	3779.3	3834.9	3794.1	3783.0	3760.8	3749.6
5°	3827.5	3886.9	3864.6	3872.0	3860.9	3809.0	3801.6	3834.9	3853.5	3820.1	3886.9
7.5°	3957.3	3931.4	3901.7	3912.8	3886.9	3931.4	3961.0	3894.3	3927.7	3909.1	3872.0
10°	4031.5	3983.3	4005.5	3998.1	3979.6	4024.1	3994.4	3987.0	3957.3	3916.5	3975.9
12.5°	4057.5	4113.1	4150.2	4087.1	4098.3	4076.0	4057.5	4057.5	4024.1	4013.0	4024.1
15°	4172.4	4220.7	4205.8	4254.0	4191.0	4213.2	4235.5	4179.9	4209.5	4127.9	4191.0
17.5°	4383.8	4343.0	4395.0	4331.9	4354.2	4398.7	4328.2	4328.2	4350.5	4306.0	4250.3
20°	4517.4	4498.8	4480.3	4484.0	4446.9	4487.7	4465.4	4454.3	4420.9	4435.8	4465.4
22.5°	4643.5	4617.5	4624.9	4636.0	4662.0	4643.5	4632.3	4643.5	4561.9	4636.0	4532.2
25°	4799.2	4869.7	4847.4	4895.7	4821.5	4869.7	4866.0	4795.5	4840.0	4810.4	4788.1
27.5°	5058.9	5021.8	5055.1	4995.8	5047.7	5051.4	5006.9	5125.6	5073.7	5066.3	5051.4
30°	5392.6	5366.7	5344.4	5311.1	5351.9	5318.5	5355.6	5366.7	5318.5	5281.4	5210.9
32.5°	5581.8	5652.3	5678.2	5596.6	5600.3	5618.9	5585.5	5552.1	5581.8	5592.9	5581.8
35°	5848.8	5915.6	5930.4	5867.4	5834.0	5926.7	5860.0	5971.2	5874.8	5878.5	5778.4
37.5°	6160.4	6178.9	6305.0	6234.6	6204.9	6160.4	6282.8	6267.9	6290.2	6112.2	6201.2
40°	6512.7	6579.5	6649.9	6471.9	6468.2	6509.0	6501.6	6586.9	6546.1	6520.1	6457.1
42.5°	6898.4	7039.4	7050.5	6931.8	6857.6	6850.2	6887.3	7076.5	7080.2	6909.6	6835.4
45°	7410.3	7566.0	7525.2	7295.3	7213.7	7202.6	7384.3	7465.9	7536.4	7469.6	7406.5
47.5°	8048.2	8152.0	8122.4	7910.9	7647.6	7721.8	7899.8	8155.7	8081.6	7992.5	7918.4
50°	8730.6	8853.0	8789.9	8578.5	8326.3	8326.3	8545.2	8871.5	8849.3	8675.0	8608.2
52.5°	9487.2	9665.2	9809.9	9509.5	9298.1	9331.4	9676.4	9795.0	9739.4	9617.0	9561.4
55°	10050.9	10392.2	10688.9	10703.7	10714.8	10711.1	10800.1	10918.8	10522.0	10325.4	10125.1
57.5°	9913.7	10559.1	11575.3	12265.1	12469.1	12576.7	12547.0	11998.1	11059.7	10414.4	10481.2
60°	8934.6	9987.9	11627.2	13841.4	15324.9	15176.6	14635.1	12465.4	10763.0	9672.6	9535.4
62.5°	7128.4	8396.8	10755.6	14286.4	18373.6	18329.1	15495.5	11386.1	8968.0	7588.3	7503.0
64°	5370.4	6705.6	9594.8	14171.5	19441.7	19486.2	15276.7	10058.4	7017.1	5370.4	5240.6
65°	4109.4	5348.1	8456.1	13934.1	19211.8	19237.7	14668.4	8686.1	5333.3	3812.7	3671.7
67.5°	1635.6	2277.2	4587.8	10566.5	16496.9	16426.4	10466.3	4202.1	2039.9	1327.8	1301.8
70°	697.3	867.9	1609.6	5006.9	11044.9	10840.9	4506.2	1364.9	756.6	634.2	630.5
72.5°	478.4	530.4	689.8	1546.6	4591.5	4484.0	1283.3	634.2	515.5	474.7	474.7
75°	385.7	422.8	500.7	649.0	1216.5	1172.0	604.5	467.3	411.7	382.0	378.3
77.5°	300.4	337.5	393.1	448.8	556.3	552.6	404.3	352.3	319.0	296.7	289.3
80°	237.4	274.5	311.5	319.0	363.5	356.0	274.5	278.2	259.6	215.1	211.4
82.5°	163.2	222.5	248.5	226.2	215.1	215.1	196.6	196.6	181.7	133.5	122.4
85°	100.1	148.4	155.8	133.5	100.1	100.1	107.6	103.8	96.4	70.5	66.8
87.5°	51.9	70.5	63.1	51.9	33.4	33.4	29.7	22.3	22.3	18.5	18.5
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)