

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: P478927

Luminaire Tested: **IFLD-L-SA8A-735-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478927  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-735-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (128) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

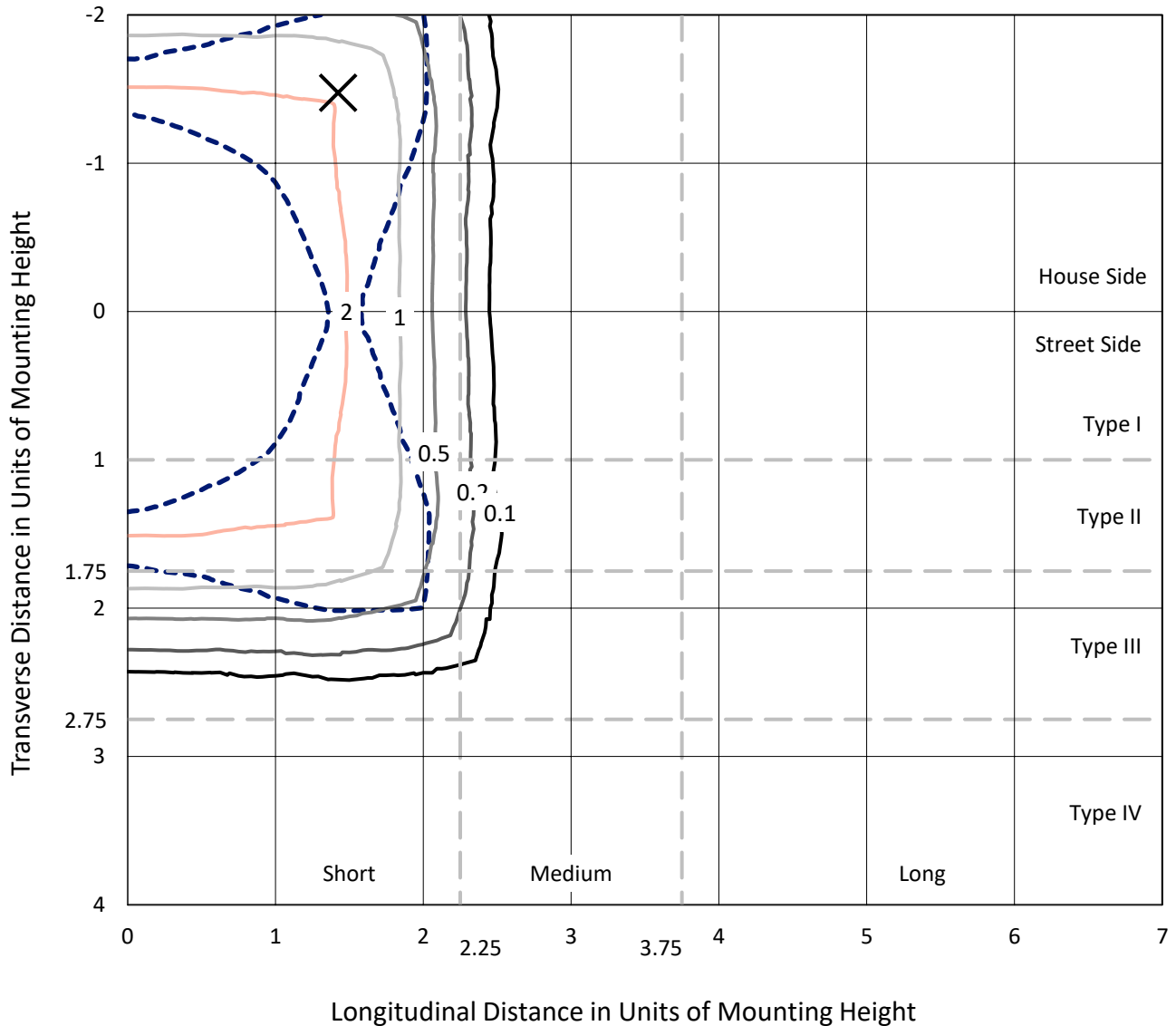
Lumens per Lamp: N/A  
Luminaire Lumens: 33698.2 lumens  
Efficiency: N/A  
Efficacy: 136.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2

Input Watts (W): 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

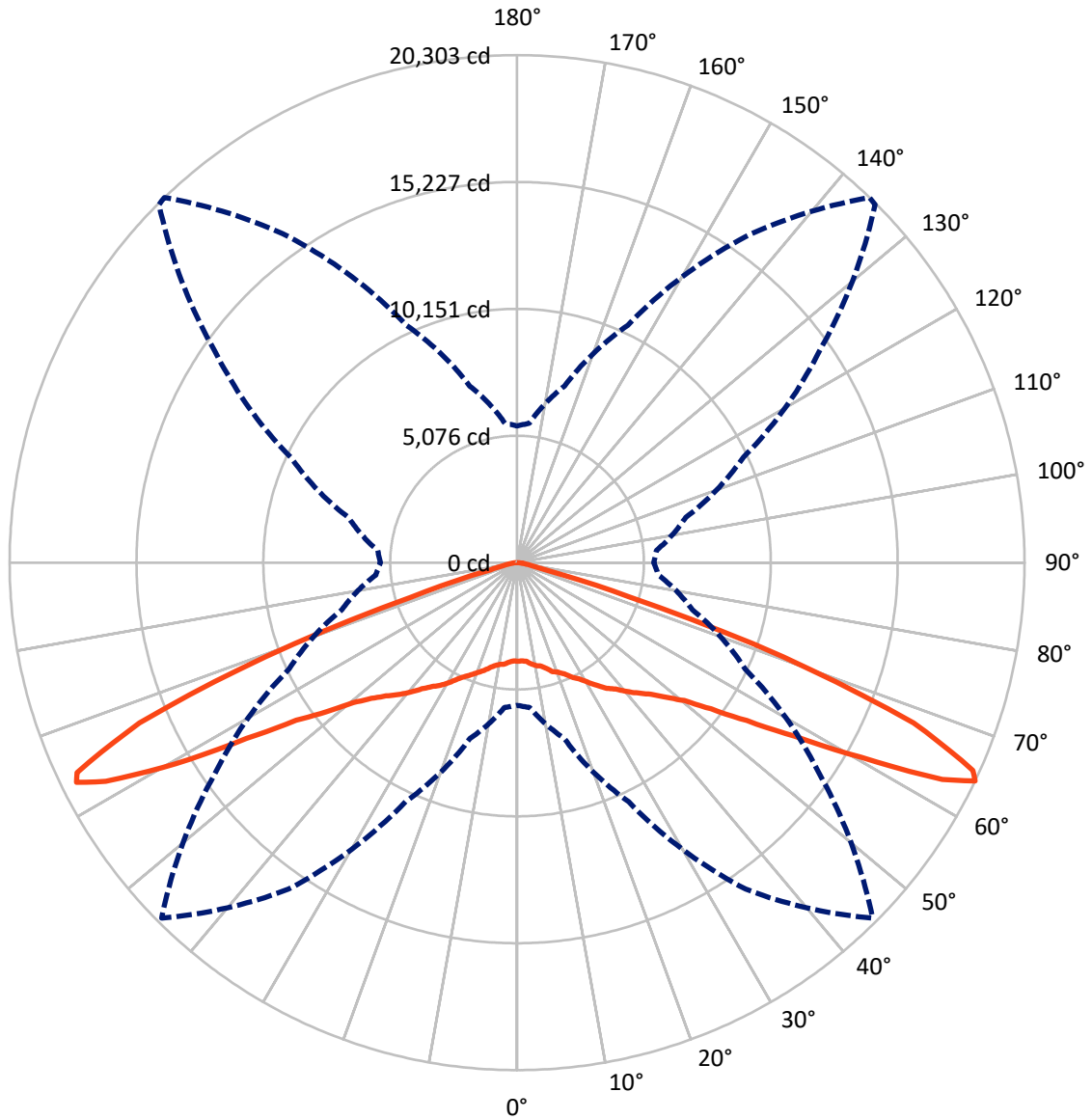
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.5 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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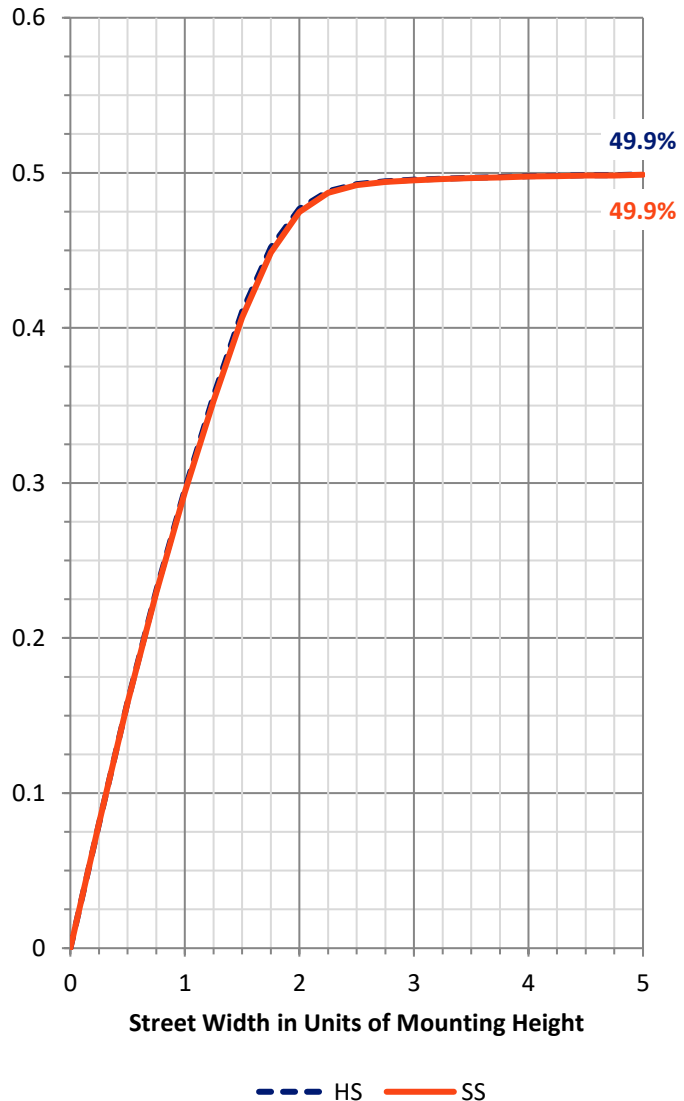
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16865.1	0.0	16865.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16833.0	0.0	16833.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	33698.2	0.0	33698.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	387.7	1.2
10°-20°	1249.4	3.7
20°-30°	2348.2	7.0
30°-40°	3872.6	11.5
40°-50°	6056.5	18.0
50°-60°	9785.8	29.0
60°-70°	8811.4	26.1
70°-80°	1043.8	3.1
80°-90°	142.9	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°	33698.2	100.0
0°-180°	33698.2	100.0

**Coefficient of Utilization**



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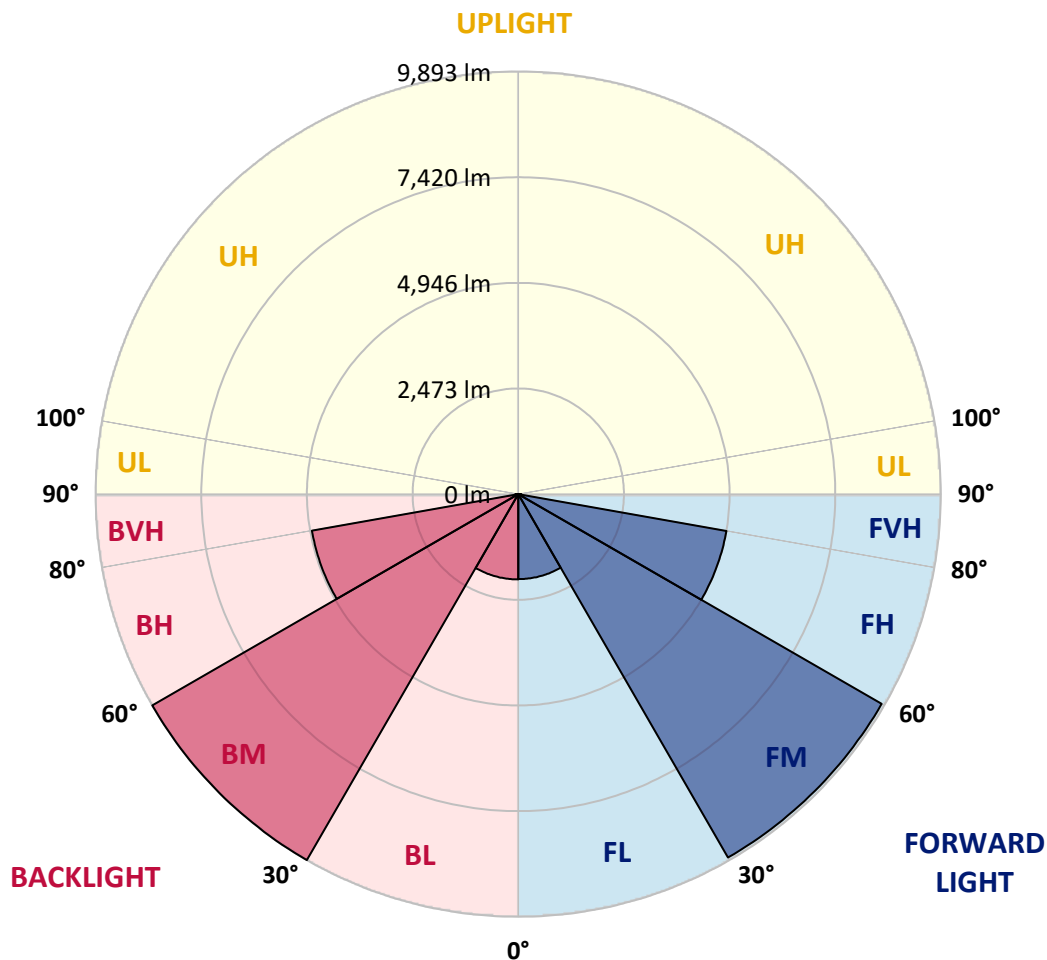
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1988.8	5.9			
FM (30°-60°)	9822.0	29.1			
FH (60°-80°)	4949.0	14.7			G2/5000
FVH (80°-90°)	73.3	0.2			G1/100
BL (0°-30°)	1996.5	5.9	B3/2500		
BM (30°-60°)	9892.8	29.4	B5		
BH (60°-80°)	4906.2	14.6	B4/5000		G2/5000
BVH (80°-90°)	69.6	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°	3945.4	3945.4	3945.4	3945.4	3945.4	3945.4	3945.4	3945.4	3945.4	3945.4	3945.4
2.5°	3899.0	3906.7	3976.3	3949.2	3972.4	3929.9	3960.8	4026.5	3949.2	4007.2	4026.5
5°	3941.5	3953.1	3953.1	3980.1	3995.6	3987.9	4007.2	3980.1	4053.6	4022.6	4069.0
7.5°	4096.1	4076.7	4045.8	4069.0	4072.9	4092.2	4111.5	4146.3	4134.7	4107.7	4154.0
10°	4123.1	4107.7	4154.0	4157.9	4138.6	4123.1	4142.4	4142.4	4177.2	4184.9	4184.9
12.5°	4169.5	4184.9	4181.1	4212.0	4215.9	4204.3	4235.2	4293.1	4277.7	4289.3	4262.2
15°	4347.2	4327.9	4324.1	4355.0	4405.2	4331.8	4385.9	4382.0	4366.6	4389.7	4327.9
17.5°	4501.8	4440.0	4467.0	4517.3	4497.9	4513.4	4583.0	4521.1	4536.6	4509.5	4490.2
20°	4637.1	4586.8	4590.7	4610.0	4610.0	4656.4	4683.4	4660.2	4644.8	4640.9	4648.7
22.5°	4787.8	4729.8	4733.7	4814.8	4841.9	4826.4	4807.1	4845.7	4853.5	4822.5	4857.3
25°	4899.8	4961.7	4981.0	5019.6	4961.7	5004.2	4988.7	5062.1	5108.5	5046.7	5089.2
27.5°	5193.5	5166.5	5216.7	5212.8	5259.2	5216.7	5243.7	5266.9	5286.2	5290.1	5270.8
30°	5456.3	5467.9	5417.6	5552.9	5444.7	5514.2	5560.6	5572.2	5595.4	5595.4	5537.4
32.5°	5734.5	5711.3	5792.5	5761.5	5742.2	5796.3	5746.1	5904.5	5811.8	5865.9	5800.2
35°	6047.5	6047.5	6078.4	6163.4	6047.5	6012.7	6105.5	6171.2	6171.2	6074.5	6097.7
37.5°	6399.1	6368.2	6406.9	6515.1	6426.2	6310.3	6480.3	6507.3	6488.0	6461.0	6414.6
40°	6646.5	6638.7	6716.0	6859.0	6731.5	6708.3	6739.2	6812.6	6835.8	6862.8	6801.0
42.5°	7063.8	7098.6	7322.7	7287.9	7183.6	7102.4	7094.7	7369.1	7303.4	7233.8	7199.0
45°	7682.1	7651.1	7767.1	7770.9	7635.7	7457.9	7496.6	7747.8	7859.8	7705.2	7763.2
47.5°	8172.8	8188.3	8269.4	8435.6	8122.6	7937.1	8080.1	8485.8	8451.0	8393.1	8447.2
50°	8829.7	8899.3	9154.3	9096.4	8818.1	8590.2	8903.2	9285.7	9328.2	9115.7	9077.0
52.5°	9737.8	9846.0	9985.1	10031.5	9764.9	9683.7	9703.0	10178.3	10074.0	9869.2	9737.8
55°	10533.9	10584.1	10839.1	11221.7	11202.4	10812.1	11036.2	11214.0	10788.9	10367.7	10402.5
57.5°	10873.9	10897.1	11608.1	12373.2	12829.2	12918.1	12663.0	12064.1	11051.7	10240.2	10189.9
60°	10027.6	10247.9	11105.8	12833.1	14915.9	15943.8	14247.4	12160.7	10437.2	9451.9	9378.5
62.5°	8014.4	8026.0	9301.2	11921.1	16214.2	18907.6	14854.0	11252.6	8798.8	7682.1	7388.4
64°	5707.4	5815.6	7280.2	10553.2	15943.8	20113.2	14780.6	10066.3	7253.1	5668.8	5464.0
65°	4096.1	4246.8	5661.1	9162.1	15310.0	19970.3	14560.4	9046.1	5865.9	4327.9	4119.3
67.5°	1507.0	1568.9	2221.9	4583.0	10993.7	17018.0	11538.5	4973.2	2577.4	1835.5	1650.0
70°	699.4	703.3	823.1	1514.8	4807.1	11380.1	5506.5	1866.4	969.9	769.0	714.9
72.5°	513.9	525.5	575.8	699.4	1414.3	4818.7	1808.5	765.1	568.0	502.3	490.8
75°	417.3	425.1	440.5	506.2	653.1	1290.6	734.2	529.4	452.1	405.7	390.3
77.5°	320.7	320.7	355.5	386.4	432.8	602.8	486.9	421.2	367.1	320.7	309.1
80°	231.9	235.7	278.2	301.4	293.7	398.0	351.6	347.8	301.4	251.2	231.9
82.5°	135.2	146.8	200.9	216.4	208.7	235.7	255.0	270.5	235.7	173.9	158.4
85°	77.3	81.1	115.9	119.8	119.8	112.1	146.8	162.3	158.4	108.2	96.6
87.5°	23.2	23.2	30.9	30.9	34.8	38.6	58.0	69.6	77.3	54.1	50.2
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°	3945.4	3945.4	3945.4	3945.4	3945.4	3945.4	3945.4	3945.4	3945.4	3945.4	3945.4
2.5°	4007.2	3949.2	3953.1	3968.5	3918.3	3937.6	3995.6	3953.1	3941.5	3918.3	3906.7
5°	3987.9	4049.7	4026.5	4034.2	4022.6	3968.5	3960.8	3995.6	4014.9	3980.1	4049.7
7.5°	4123.1	4096.1	4065.2	4076.7	4049.7	4096.1	4127.0	4057.4	4092.2	4072.9	4034.2
10°	4200.4	4150.2	4173.4	4165.6	4146.3	4192.7	4161.8	4154.0	4123.1	4080.6	4142.4
12.5°	4227.5	4285.4	4324.1	4258.4	4270.0	4246.8	4227.5	4227.5	4192.7	4181.1	4192.7
15°	4347.2	4397.5	4382.0	4432.3	4366.6	4389.7	4412.9	4355.0	4385.9	4300.9	4366.6
17.5°	4567.5	4525.0	4579.1	4513.4	4536.6	4583.0	4509.5	4509.5	4532.7	4486.4	4428.4
20°	4706.6	4687.3	4668.0	4671.8	4633.2	4675.7	4652.5	4640.9	4606.1	4621.6	4652.5
22.5°	4838.0	4810.9	4818.7	4830.3	4857.3	4838.0	4826.4	4838.0	4753.0	4830.3	4722.1
25°	5000.3	5073.7	5050.5	5100.8	5023.5	5073.7	5069.9	4996.4	5042.8	5011.9	4988.7
27.5°	5270.8	5232.1	5266.9	5205.1	5259.2	5263.1	5216.7	5340.3	5286.2	5278.5	5263.1
30°	5618.6	5591.5	5568.3	5533.6	5576.1	5541.3	5579.9	5591.5	5541.3	5502.6	5429.2
32.5°	5815.6	5889.1	5916.1	5831.1	5835.0	5854.3	5819.5	5784.7	5815.6	5827.2	5815.6
35°	6093.9	6163.4	6178.9	6113.2	6078.4	6175.0	6105.5	6221.4	6120.9	6124.8	6020.4
37.5°	6418.5	6437.8	6569.2	6495.7	6464.8	6418.5	6546.0	6530.5	6553.7	6368.2	6461.0
40°	6785.6	6855.1	6928.5	6743.1	6739.2	6781.7	6774.0	6862.8	6820.3	6793.3	6727.6
42.5°	7187.4	7334.3	7345.9	7222.2	7144.9	7137.2	7175.8	7372.9	7376.8	7199.0	7121.7
45°	7720.7	7883.0	7840.5	7600.9	7515.9	7504.3	7693.7	7778.7	7852.1	7782.5	7716.8
47.5°	8385.3	8493.5	8462.6	8242.4	7968.0	8045.3	8230.8	8497.4	8420.1	8327.4	8250.1
50°	9096.4	9223.9	9158.2	8937.9	8675.2	8675.2	8903.2	9243.2	9220.0	9038.4	8968.8
52.5°	9884.7	10070.1	10220.9	9907.8	9687.6	9722.4	10081.7	10205.4	10147.4	10019.9	9961.9
55°	10472.0	10827.5	11136.7	11152.1	11163.7	11159.9	11252.6	11376.3	10962.8	10758.0	10549.3
57.5°	10329.0	11001.4	12060.2	12779.0	12991.5	13103.6	13072.6	12500.7	11523.1	10850.7	10920.3
60°	9308.9	10406.3	12114.3	14421.3	15966.9	15812.4	15248.2	12987.6	11214.0	10077.9	9934.9
62.5°	7427.0	8748.6	11206.2	14885.0	19143.3	19097.0	16144.7	11863.1	9343.7	7906.2	7817.3
64°	5595.4	6986.5	9996.7	14765.2	20256.2	20302.6	15916.7	10479.8	7311.1	5595.4	5460.1
65°	4281.6	5572.2	8810.4	14517.9	20016.6	20043.7	15283.0	9050.0	5556.7	3972.4	3825.6
67.5°	1704.1	2372.6	4780.0	11009.2	17188.0	17114.6	10904.8	4378.2	2125.3	1383.4	1356.3
70°	726.5	904.2	1677.1	5216.7	11507.6	11295.1	4695.0	1422.0	788.3	660.8	656.9
72.5°	498.5	552.6	718.7	1611.4	4783.9	4671.8	1337.0	660.8	537.1	494.6	494.6
75°	401.9	440.5	521.7	676.2	1267.5	1221.1	629.9	486.9	428.9	398.0	394.2
77.5°	313.0	351.6	409.6	467.6	579.6	575.8	421.2	367.1	332.3	309.1	301.4
80°	247.3	286.0	324.6	332.3	378.7	371.0	286.0	289.8	270.5	224.1	220.3
82.5°	170.0	231.9	258.9	235.7	224.1	224.1	204.8	204.8	189.3	139.1	127.5
85°	104.3	154.6	162.3	139.1	104.3	104.3	112.1	108.2	100.5	73.4	69.6
87.5°	54.1	73.4	65.7	54.1	34.8	34.8	30.9	23.2	23.2	19.3	19.3
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)