

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: P478681

Luminaire Tested: **IFLD-S-SA6D-827-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478681  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-827-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (96) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

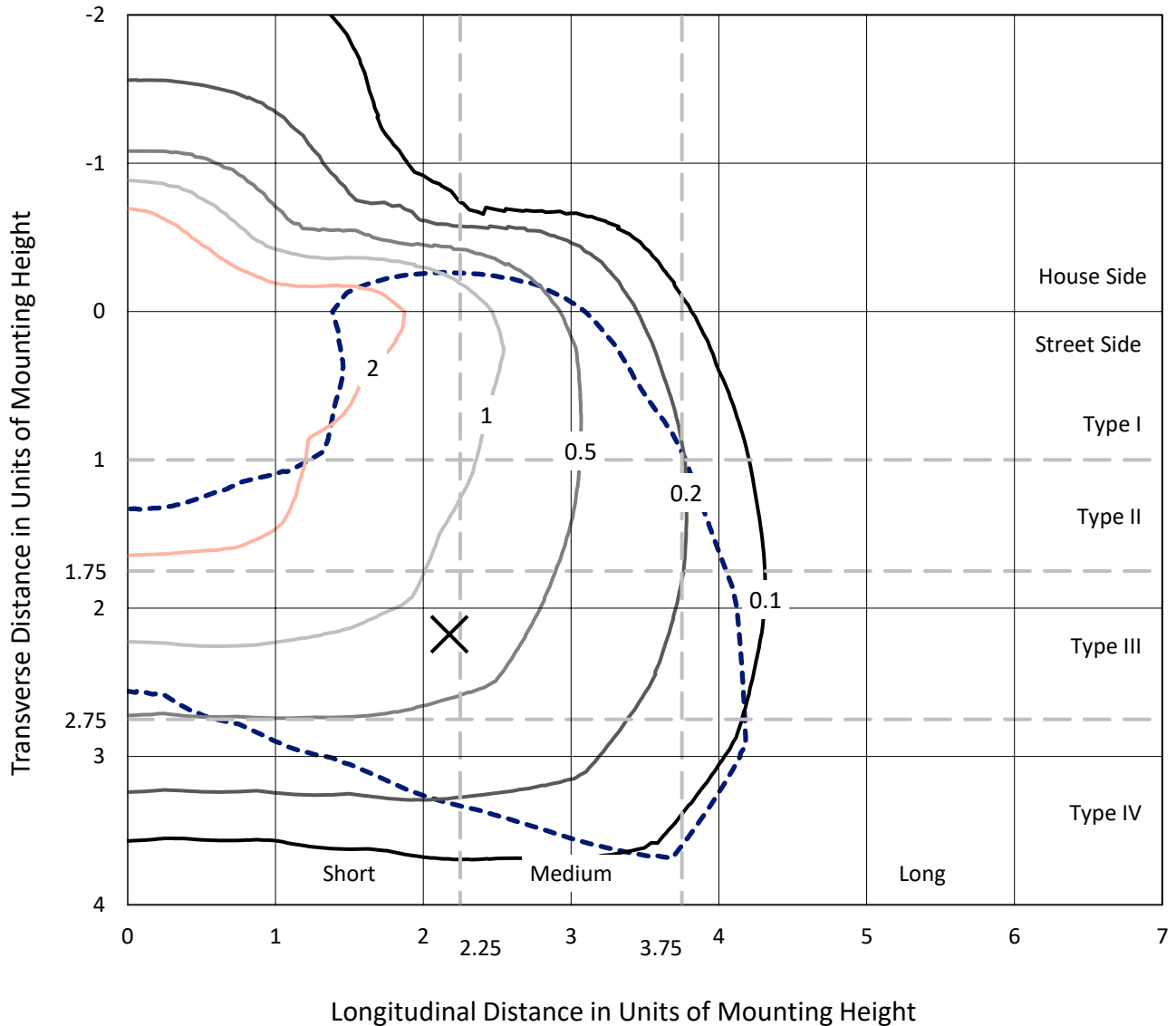
Lumens per Lamp: N/A  
Luminaire Lumens: 33972.4 lumens  
Efficiency: N/A  
Efficacy: 92.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 368.2  
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

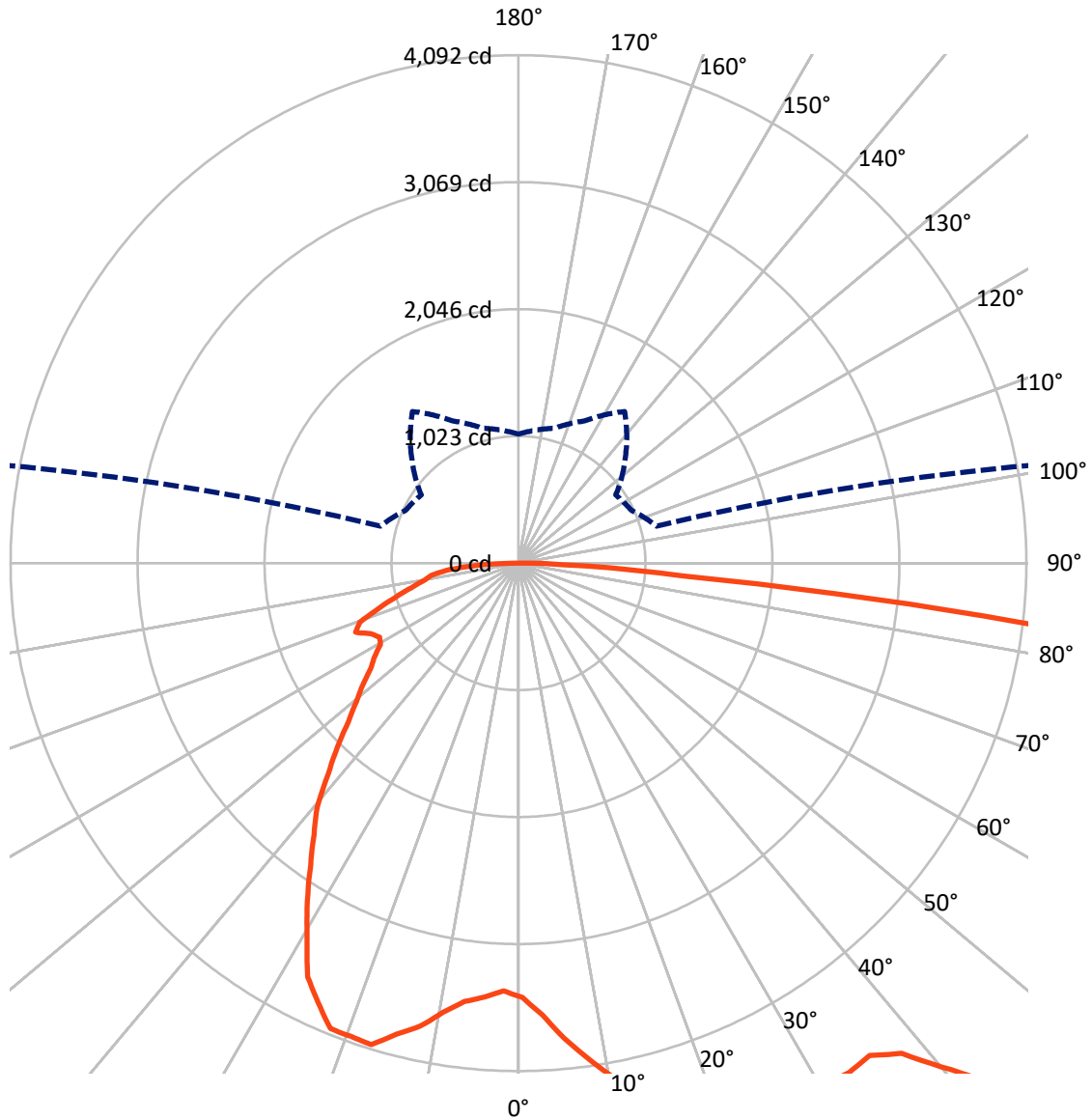
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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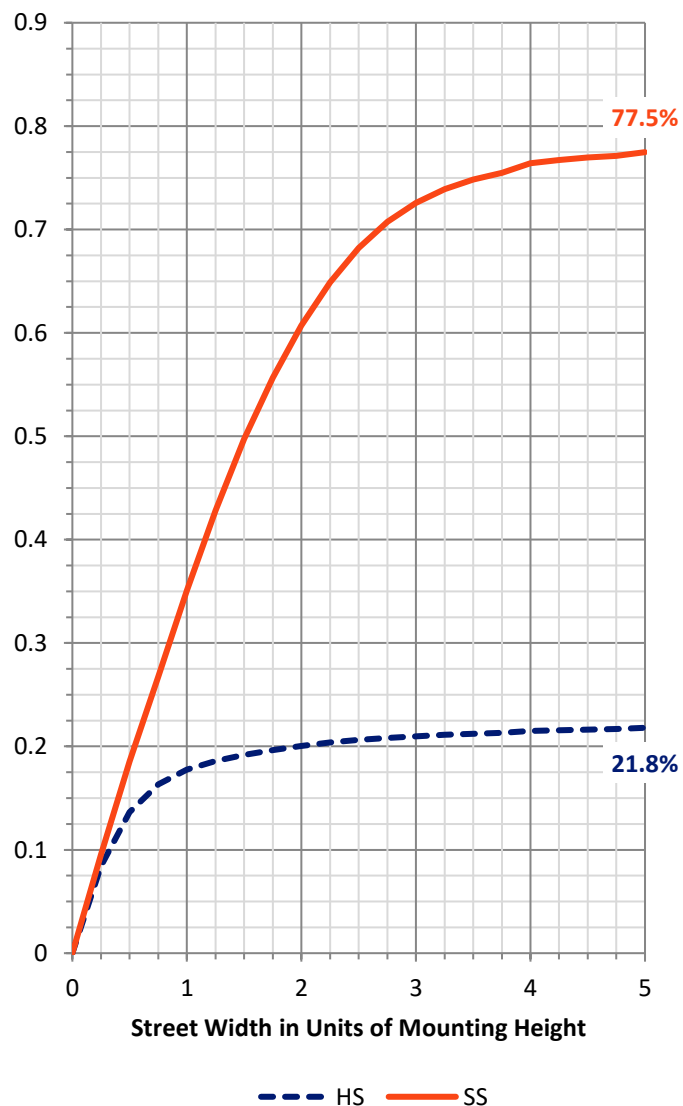
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7562.5	0.0	7562.5
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	26410.0	0.0	26410.0
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	33972.4	0.0	33972.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	358.0	1.1
10°-20°	1191.1	3.5
20°-30°	2011.4	5.9
30°-40°	2783.5	8.2
40°-50°	3981.5	11.7
50°-60°	6421.7	18.9
60°-70°	9471.0	27.9
70°-80°	6877.6	20.2
80°-90°	876.7	2.6
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°	33972.4	100.0
0°-180°	33972.4	100.0

**Coefficient of Utilization**



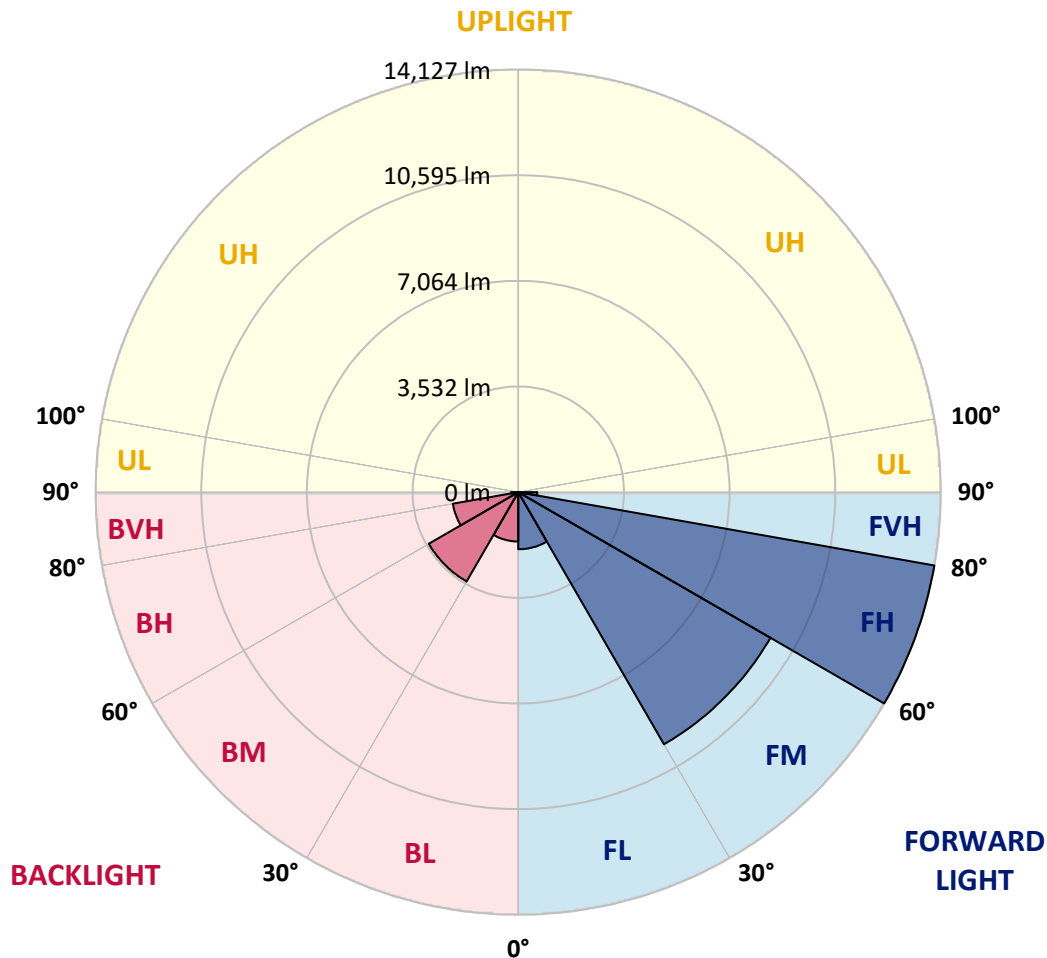
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1909.3	5.6			
FM (30°-60°)	9735.3	28.7			
FH (60°-80°)	14127.3	41.6			G5
FVH (80°-90°)	638.1	1.9			G4/750
BL (0°-30°)	1651.2	4.9	B3/2500		
BM (30°-60°)	3451.3	10.2	B3/5000		
BH (60°-80°)	2221.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	238.6	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3498.5	3498.5	3498.5	3498.5	3498.5	3498.5	3498.5	3498.5	3498.5	3498.5	3498.5
2.5°	3685.4	3707.4	3685.4	3681.7	3645.1	3619.4	3641.4	3608.4	3571.8	3557.2	3524.2
5°	4022.4	4026.1	3985.8	3989.4	3912.5	3831.9	3846.6	3747.7	3641.4	3601.1	3535.2
7.5°	4366.8	4326.5	4267.9	4249.5	4128.7	4040.7	4029.7	3941.8	3777.0	3685.4	3593.8
10°	4590.2	4604.9	4509.6	4429.0	4326.5	4220.2	4216.6	4051.7	3956.5	3820.9	3703.7
12.5°	4788.1	4791.7	4711.1	4582.9	4454.7	4322.8	4341.1	4267.9	4106.7	3978.5	3861.2
15°	4941.9	4919.9	4832.0	4714.8	4579.2	4476.7	4465.7	4403.4	4267.9	4161.6	3967.5
17.5°	4985.9	4974.9	4887.0	4762.4	4630.5	4553.6	4582.9	4480.3	4425.4	4330.1	4143.3
20°	4901.6	4876.0	4861.3	4722.1	4626.9	4619.5	4593.9	4615.9	4524.3	4436.4	4300.8
22.5°	4747.8	4736.8	4729.4	4619.5	4575.6	4608.6	4652.5	4685.5	4670.8	4586.6	4432.7
25°	4590.2	4641.5	4593.9	4542.6	4604.9	4689.2	4678.2	4784.4	4784.4	4758.8	4630.5
27.5°	4700.1	4667.2	4630.5	4604.9	4626.9	4758.8	4751.4	4879.6	4927.3	4879.6	4733.1
30°	4974.9	4941.9	4835.7	4722.1	4692.8	4835.7	4872.3	4985.9	5007.9	4890.6	4766.1
32.5°	5491.4	5473.1	5304.6	4971.2	4791.7	4872.3	4890.6	5018.9	5000.5	4927.3	4876.0
35°	6257.1	6194.8	5960.3	5396.2	5000.5	4919.9	4872.3	4974.9	5044.5	5007.9	4960.2
37.5°	7096.0	7026.4	6737.0	6022.6	5377.9	5048.2	5011.5	5095.8	5176.4	5158.1	5059.2
40°	7898.3	7898.3	7638.2	6806.6	5938.4	5359.6	5366.9	5271.6	5344.9	5311.9	5330.2
42.5°	8689.6	8660.3	8554.0	7726.1	6539.2	5879.8	5762.5	5524.4	5656.3	5645.3	5670.9
45°	9491.9	9469.9	9440.6	8583.3	7400.1	6583.1	6520.8	6092.2	6213.1	6161.8	6271.7
47.5°	10133.0	10158.6	10158.6	9539.5	8319.6	7521.0	7429.4	6751.6	6982.4	7008.1	7033.7
50°	10678.8	10689.8	10678.8	10451.7	9345.3	8594.3	8407.5	7718.8	7949.6	8151.1	8385.5
52.5°	11433.5	11448.1	11396.8	11308.9	10737.4	9722.7	9513.8	8748.2	9220.8	9433.3	9854.5
55°	12364.0	12254.1	12158.8	12224.8	12074.6	10964.6	10748.4	9810.6	10521.3	10803.4	11645.9
57.5°	12536.1	12631.4	12873.2	13397.0	13613.2	12173.5	12048.9	11114.8	11990.3	12235.8	13642.5
60°	13144.3	12986.7	13580.2	14715.9	14957.7	13748.7	13620.5	12543.5	13452.0	13708.4	15485.2
62.5°	13543.6	13536.3	14415.5	15763.6	16313.1	15382.6	15122.5	14400.8	15030.9	15280.0	17492.7
65°	13426.4	13532.6	15093.2	16379.1	17445.1	17240.0	17089.8	15998.1	16829.7	16807.7	18800.6
67.5°	12356.6	12657.0	14664.6	16822.3	19130.3	19503.9	19456.3	18243.7	18291.3	17826.1	19383.0
70°	10873.0	10770.4	12851.2	16360.7	19972.8	22189.2	22178.2	19914.2	19606.5	18049.6	17712.5
72°	8352.5	8239.0	9949.8	14049.1	19529.6	23262.6	23592.3	21071.9	19591.9	17122.7	14631.6
72.5°	7583.2	7484.3	9187.8	13224.9	19038.7	23541.0	23387.1	21115.8	19438.0	16686.8	13668.1
75°	3491.2	3377.7	4590.2	8096.1	14851.4	20859.4	21383.3	19760.4	16976.2	13283.5	8187.7
77.5°	1040.4	1007.4	1476.3	3267.8	8631.0	15368.0	15569.4	14910.0	11851.1	7275.5	3037.0
80°	578.8	582.5	762.0	1223.6	3795.3	8883.7	9609.1	9209.8	5813.8	2403.2	1011.1
82.5°	322.4	340.7	476.2	725.4	1743.8	4077.4	4388.8	4231.2	2102.8	1128.3	553.2
85°	168.5	175.8	249.1	388.3	989.1	1289.5	1326.2	1421.4	1091.7	769.3	296.7
87.5°	65.9	65.9	91.6	161.2	366.3	399.3	359.0	435.9	626.4	498.2	146.5
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°	3498.5	3498.5	3498.5	3498.5	3498.5	3498.5	3498.5	3498.5	3498.5	3498.5	3498.5
2.5°	3553.5	3524.2	3520.5	3472.9	3487.6	3447.3	3450.9	3443.6	3447.3	3439.9	3421.6
5°	3535.2	3513.2	3450.9	3491.2	3454.6	3505.9	3546.2	3531.5	3542.5	3538.8	3542.5
7.5°	3560.8	3531.5	3524.2	3502.2	3535.2	3557.2	3590.1	3681.7	3674.4	3685.4	3707.4
10°	3637.8	3604.8	3582.8	3615.8	3597.5	3667.1	3703.7	3751.3	3835.6	3839.2	3795.3
12.5°	3788.0	3766.0	3722.0	3729.3	3791.6	3813.6	3835.6	3864.9	3919.8	3908.8	3949.1
15°	3960.1	3912.5	3886.9	3879.5	3894.2	3919.8	3916.2	3945.5	3974.8	4000.4	3989.4
17.5°	4084.7	4022.4	4029.7	4066.4	4062.7	4055.4	4007.8	3993.1	4007.8	4022.4	4015.1
20°	4212.9	4220.2	4165.3	4132.3	4117.7	4044.4	4007.8	3963.8	3919.8	3941.8	3974.8
22.5°	4374.1	4341.1	4260.5	4161.6	4088.4	4044.4	3930.8	3853.9	3853.9	3875.9	3864.9
25°	4557.3	4487.7	4348.5	4168.9	4077.4	3890.5	3809.9	3798.9	3769.6	3802.6	3817.3
27.5°	4700.1	4637.9	4447.4	4143.3	3890.5	3740.3	3692.7	3678.1	3725.7	3729.3	3788.0
30°	4758.8	4740.4	4462.0	4077.4	3700.0	3458.2	3428.9	3494.9	3546.2	3623.1	3626.8
32.5°	4835.7	4843.0	4484.0	3923.5	3450.9	3209.1	3165.2	3245.8	3392.3	3454.6	3502.2
35°	4963.9	5000.5	4465.7	3733.0	3187.2	2956.4	2949.0	2971.0	3113.9	3223.8	3286.1
37.5°	5187.4	5180.0	4462.0	3505.9	2978.3	2736.6	2677.9	2685.3	2780.5	2872.1	2861.1
40°	5487.8	5458.5	4451.0	3209.1	2707.3	2549.7	2450.8	2414.2	2406.9	2381.2	2388.5
42.5°	5898.1	5839.5	4447.4	2908.7	2461.8	2293.3	2223.7	2128.4	2058.8	1926.9	1934.3
45°	6469.6	6367.0	4352.1	2626.7	2220.0	2080.8	1974.6	1905.0	1754.8	1589.9	1589.9
47.5°	7352.4	7019.1	4355.8	2315.3	1985.6	1872.0	1798.7	1677.8	1516.6	1384.8	1370.1
50°	8652.9	7891.0	4231.2	2069.8	1795.1	1718.1	1641.2	1502.0	1348.1	1256.5	1267.5
52.5°	10330.8	9191.5	4227.6	1850.0	1644.9	1589.9	1505.7	1381.1	1267.5	1208.9	1186.9
55°	12331.0	10913.3	4359.4	1670.5	1491.0	1461.7	1425.1	1322.5	1212.6	1161.3	1157.6
57.5°	14378.8	12594.8	4571.9	1542.3	1359.1	1381.1	1355.5	1274.9	1186.9	1128.3	1121.0
60°	16199.5	13928.2	4143.3	1388.4	1241.9	1289.5	1326.2	1256.5	1208.9	1205.3	1179.6
62.5°	17573.3	14499.7	3150.5	1271.2	1179.6	1267.5	1366.4	1410.4	1388.4	1417.7	1421.4
65°	18075.2	14155.4	2168.7	1208.9	1132.0	1318.8	1538.6	1524.0	1395.8	1340.8	1370.1
67.5°	17371.8	12759.6	1608.2	1135.7	1099.0	1425.1	1637.5	1454.4	1260.2	1252.9	1230.9
70°	14939.3	10814.4	1311.5	1058.7	1044.1	1366.4	1593.6	1348.1	1186.9	1139.3	1117.3
72°	11902.4	8422.2	1150.3	1003.8	956.1	1219.9	1491.0	1263.9	1124.7	1066.0	1040.4
72.5°	10865.6	7806.7	1128.3	978.1	937.8	1186.9	1439.7	1238.2	1110.0	1058.7	1018.4
75°	5960.3	3996.8	992.8	897.5	791.3	1025.8	1333.5	1161.3	1047.7	974.5	967.1
77.5°	2216.4	1549.6	857.2	795.0	685.1	886.5	1212.6	1102.7	952.5	860.9	842.6
80°	849.9	816.9	699.7	670.4	575.2	776.6	1117.3	989.1	809.6	718.0	688.7
82.5°	516.5	476.2	531.2	523.9	439.6	707.0	1051.4	926.8	718.0	582.5	564.2
85°	282.1	282.1	370.0	355.3	307.7	564.2	795.0	615.5	454.3	373.7	381.0
87.5°	124.6	146.5	197.8	186.8	168.5	318.7	388.3	326.0	227.1	153.9	164.9
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)