

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: P318992

Luminaire Tested: **GAN-SA8A-730-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318992  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA8A-730-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33776 lumens  
Efficiency: N/A  
Efficacy: 131.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

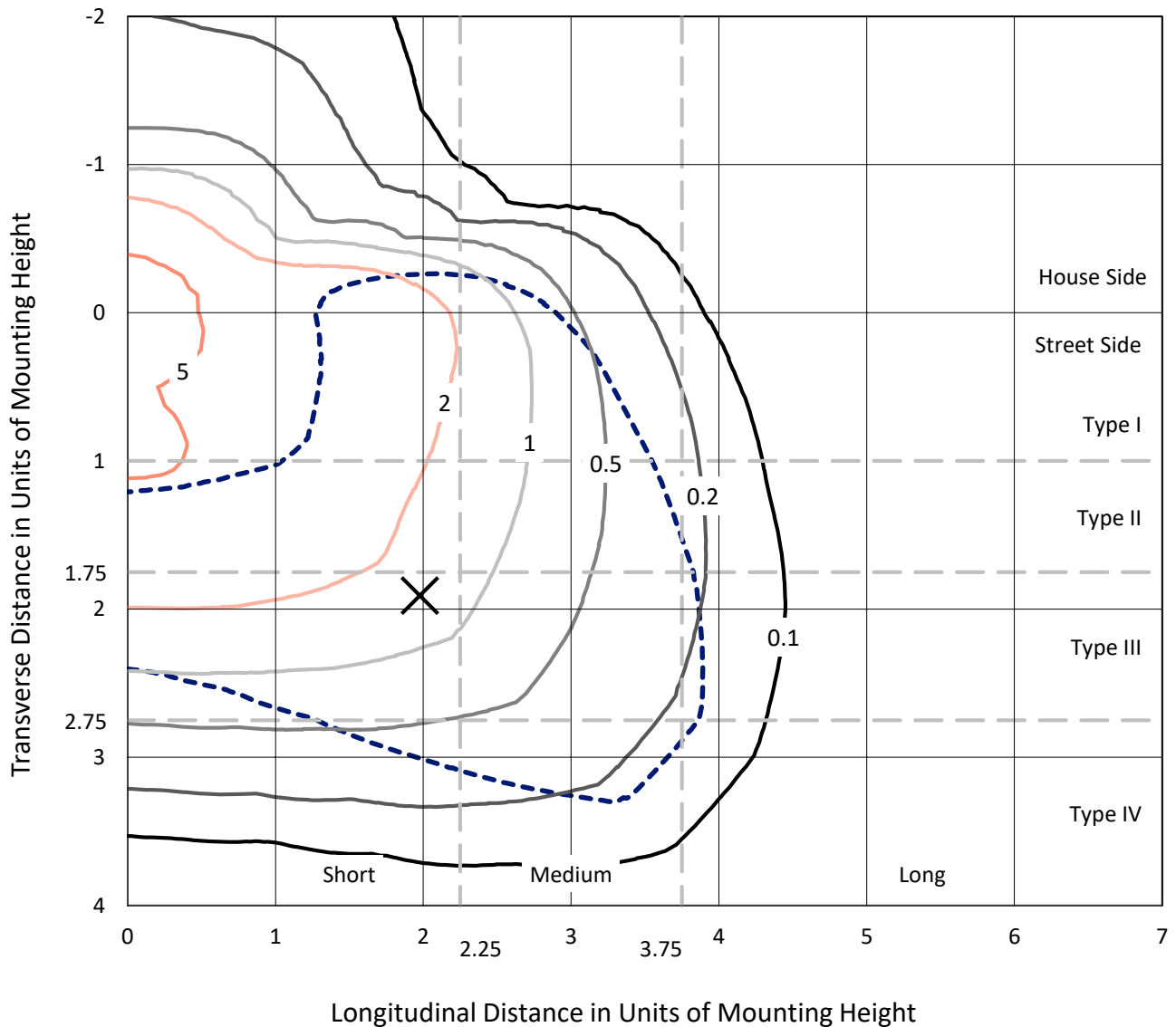
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

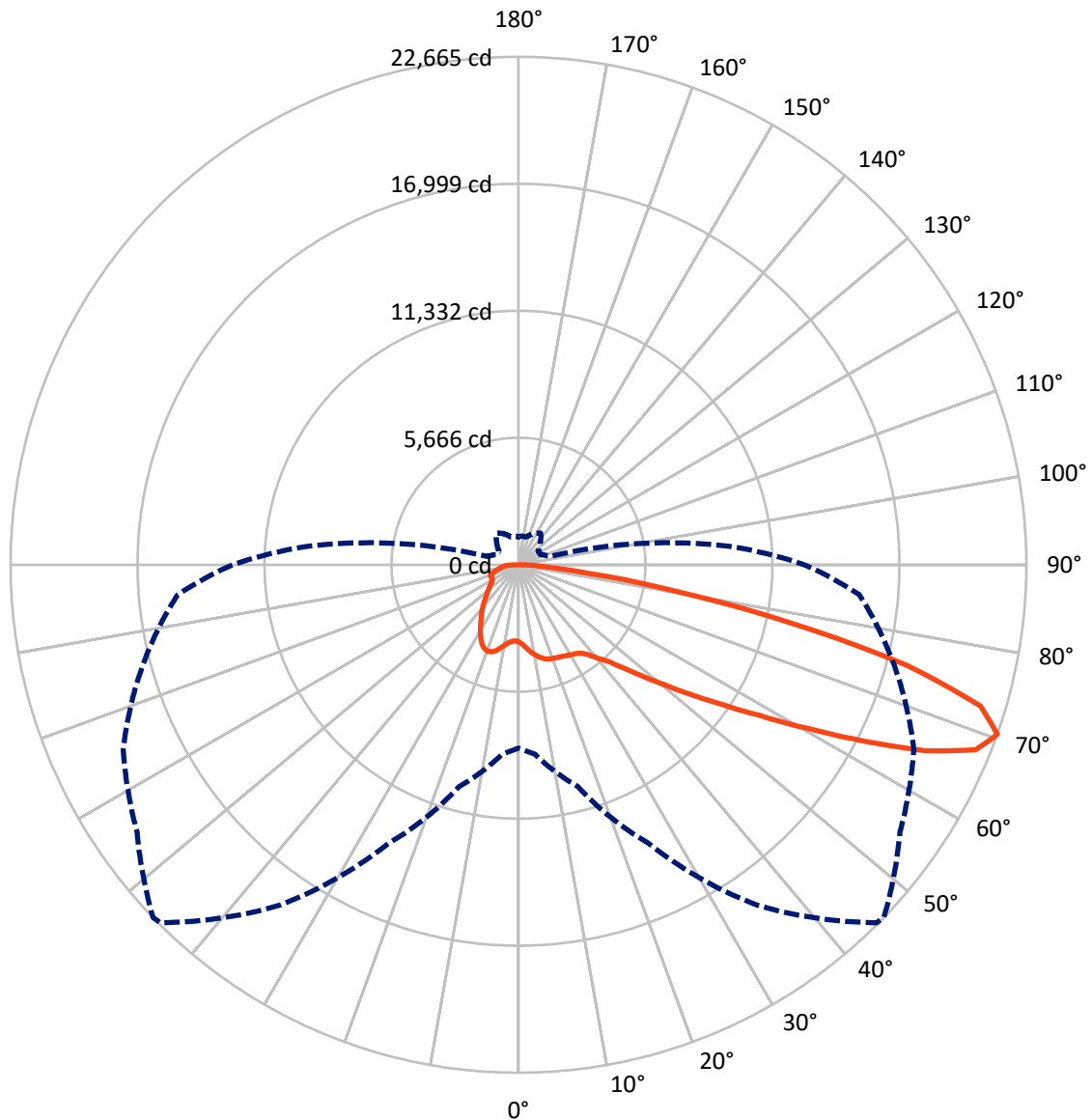
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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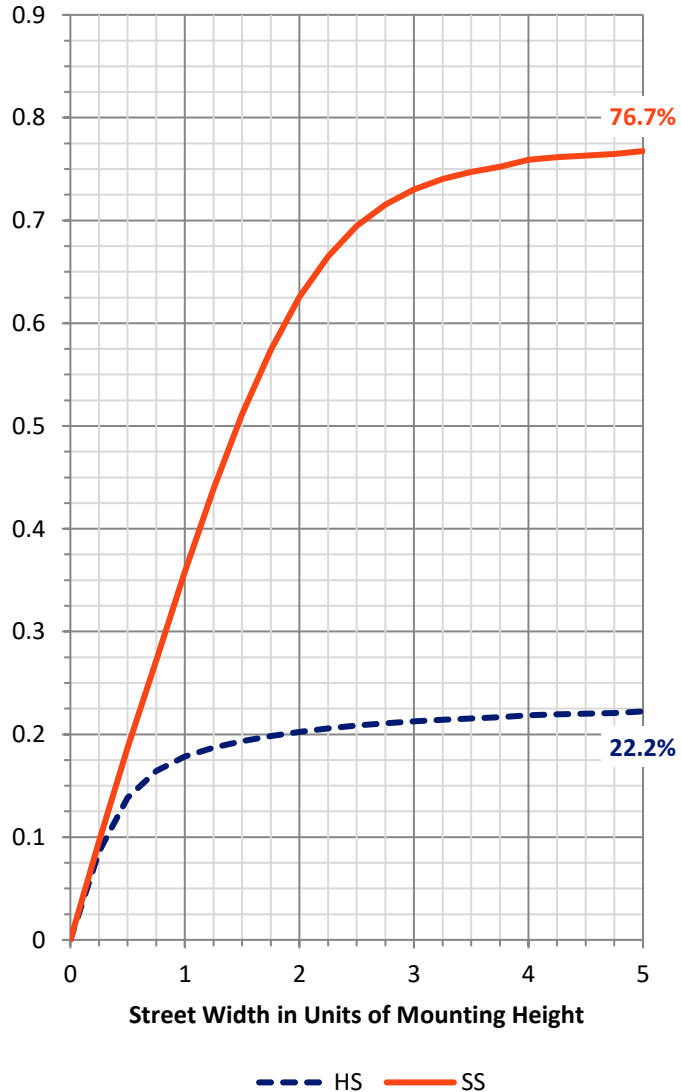
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7741.4	0.0	7741.4
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	26034.6	0.0	26034.6
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	33776.0	0.0	33776.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	350.8	1.0
10°-20°	1168.8	3.5
20°-30°	1948.8	5.8
30°-40°	2765.4	8.2
40°-50°	4067.7	12.0
50°-60°	6888.7	20.4
60°-70°	9778.4	29.0
70°-80°	5940.5	17.6
80°-90°	866.9	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°	33776.0	100.0
0°-180°	33776.0	100.0

**Coefficient of Utilization**

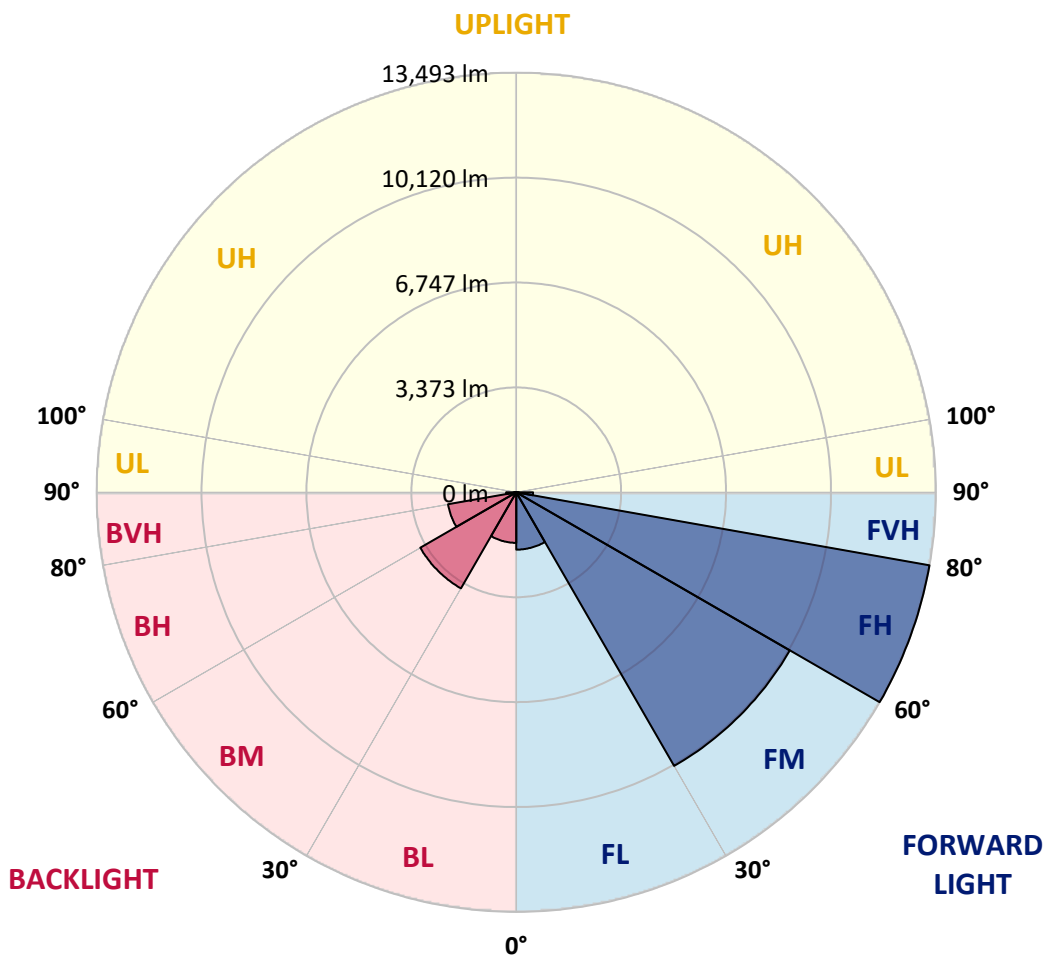


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1843.0	5.5			
FM (30°-60°)	10158.3	30.1			
FH (60°-80°)	13493.3	39.9			G5
FVH (80°-90°)	540.0	1.6			G4/750
BL (0°-30°)	1625.3	4.8	B3/2500		
BM (30°-60°)	3563.5	10.6	B3/5000		
BH (60°-80°)	2225.6	6.6	B3/2500		G3/2500
BVH (80°-90°)	326.9	1.0			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°	45°	46°	55°	65°	75°	85°
0°	3441.1	3441.1	3441.1	3441.1	3441.1	3441.1	3441.1	3441.1	3441.1	3441.1	3441.1
2.5°	3613.3	3615.7	3620.3	3608.7	3576.4	3567.1	3563.6	3530.1	3508.2	3475.8	3448.0
5°	3902.3	3904.6	3897.7	3865.3	3793.7	3740.5	3735.9	3659.6	3590.2	3516.2	3460.8
7.5°	4204.0	4207.5	4185.5	4124.2	4023.7	3931.2	3925.4	3821.4	3716.2	3604.1	3520.9
10°	4471.0	4457.1	4421.3	4335.8	4216.7	4103.4	4098.8	3990.2	3868.8	3733.6	3622.6
12.5°	4649.0	4637.5	4591.2	4487.2	4356.6	4252.6	4243.3	4142.7	4024.8	3876.9	3744.0
15°	4747.3	4755.4	4693.0	4575.1	4447.9	4360.1	4352.0	4280.3	4175.1	4026.0	3873.4
17.5°	4760.0	4766.9	4706.8	4590.1	4486.0	4425.9	4422.5	4375.1	4298.8	4155.5	3995.9
20°	4686.0	4690.6	4640.9	4545.0	4476.8	4458.3	4457.1	4436.3	4379.7	4252.6	4097.7
22.5°	4578.5	4582.0	4546.2	4476.8	4453.7	4482.6	4490.7	4482.6	4442.1	4323.1	4177.4
25°	4551.9	4549.6	4512.6	4442.1	4461.8	4523.0	4533.4	4536.9	4509.2	4405.1	4279.1
27.5°	4680.2	4672.1	4601.6	4488.4	4501.1	4575.1	4588.9	4622.4	4605.1	4513.8	4394.7
30°	5051.3	5037.4	4892.9	4664.1	4601.6	4639.8	4657.1	4710.3	4713.8	4637.5	4548.5
32.5°	5677.8	5660.4	5401.5	4992.3	4771.6	4705.7	4721.9	4801.6	4844.4	4785.4	4689.5
35°	6469.6	6449.9	6110.1	5550.6	5055.9	4831.7	4843.2	4906.8	4992.3	4909.1	4782.0
37.5°	7294.9	7247.5	6920.4	6207.2	5507.9	5101.0	5101.0	5109.1	5149.5	4976.1	4890.6
40°	8115.6	8068.2	7772.3	6979.3	6092.7	5525.2	5498.6	5319.5	5287.1	5138.0	5109.1
42.5°	8878.5	8864.6	8690.1	7852.0	6779.4	5942.5	5905.5	5601.5	5608.4	5516.0	5517.1
45°	9689.9	9689.9	9547.7	8732.8	7579.2	6612.9	6575.9	6128.6	6197.9	6155.2	6258.0
47.5°	10352.2	10373.0	10353.4	9650.6	8509.7	7464.8	7397.8	6859.1	7053.3	7200.1	7499.5
50°	11028.4	11060.8	11064.3	10657.4	9634.4	8477.4	8401.1	7828.9	8262.4	8683.1	9271.5
52.5°	12009.8	12082.6	11792.5	11661.9	11012.3	9679.5	9604.4	9076.1	9799.7	10390.4	11404.1
55°	12919.5	12855.9	12649.0	12729.9	12487.2	11048.1	10991.4	10527.9	11512.8	12280.3	13596.8
57.5°	13411.9	13407.3	13615.3	13962.1	14077.7	12735.7	12688.3	12237.5	13444.3	14021.1	15655.5
60°	13989.9	13997.9	14513.5	15300.6	15776.9	14837.1	14816.3	14474.2	15320.3	15646.3	17270.3
62.5°	14070.8	14216.4	15104.1	16458.9	17367.4	17292.3	17338.5	16488.9	16998.7	16943.2	18475.9
65°	13140.3	13332.1	14938.8	16809.1	18948.7	19977.4	20020.2	18515.2	18322.2	18051.7	18907.1
67.5°	11233.0	11517.4	13262.8	16047.4	19470.0	21962.1	22022.2	20086.1	19420.3	18427.4	17869.1
70°	8174.5	8490.1	10247.1	13705.5	18540.6	22596.7	22664.9	20780.8	19461.9	17358.1	15254.4
72.5°	4938.0	5185.4	6633.7	10089.8	15648.6	21440.8	21562.2	19900.0	17768.5	14703.0	11264.2
75°	2168.5	2330.3	3207.6	5814.2	11203.0	17739.6	17891.0	17033.3	14437.2	10685.1	6658.0
77.5°	923.6	969.8	1315.4	2525.6	6333.2	12121.9	12330.0	12445.6	9795.1	5814.2	2813.5
80°	575.6	594.1	744.4	1143.2	2963.7	6808.2	7032.5	7322.6	4864.0	2137.3	982.5
82.5°	350.2	371.0	494.7	691.2	1543.1	3086.3	3193.8	3398.3	1887.6	923.6	508.6
85°	210.4	225.4	302.8	436.9	878.5	1213.7	1212.5	1340.8	888.9	594.1	268.2
87.5°	100.6	112.1	161.8	226.6	442.7	455.4	426.5	483.2	539.8	389.5	135.2
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3441.1	3441.1	3441.1	3441.1	3441.1	3441.1	3441.1	3441.1	3441.1	3441.1	3441.1
2.5°	3438.8	3434.2	3419.2	3407.6	3405.3	3398.3	3392.6	3396.0	3400.7	3401.8	3401.8
5°	3437.6	3424.9	3405.3	3397.2	3407.6	3421.5	3438.8	3461.9	3475.8	3486.2	3493.1
7.5°	3493.1	3468.9	3446.9	3442.3	3463.1	3500.1	3539.4	3587.9	3621.4	3644.6	3649.2
10°	3585.6	3555.5	3533.6	3538.2	3575.2	3628.4	3683.9	3746.3	3797.1	3828.3	3830.7
12.5°	3691.9	3663.0	3642.2	3661.9	3723.2	3787.9	3845.7	3900.0	3946.2	3977.5	3977.5
15°	3814.5	3793.7	3769.4	3814.5	3897.7	3955.5	3979.8	4006.3	4031.8	4054.9	4050.3
17.5°	3932.4	3912.7	3900.0	3953.2	4039.9	4066.5	4050.3	4030.6	4030.6	4043.3	4045.6
20°	4034.1	4016.8	4024.8	4076.9	4121.9	4094.2	4034.1	3971.7	3946.2	3953.2	3960.1
22.5°	4123.1	4115.0	4139.3	4163.6	4131.2	4034.1	3923.1	3838.7	3807.5	3805.2	3807.5
25°	4227.1	4226.0	4256.0	4212.1	4068.8	3889.6	3740.5	3658.4	3641.1	3655.0	3678.1
27.5°	4356.6	4369.3	4384.3	4223.7	3941.6	3671.1	3519.7	3463.1	3480.4	3513.9	3535.9
30°	4521.9	4556.6	4524.2	4194.8	3759.0	3421.5	3277.0	3260.8	3308.2	3355.6	3378.7
32.5°	4682.5	4736.9	4658.3	4119.6	3523.2	3156.8	3044.6	3040.0	3097.8	3144.0	3176.4
35°	4812.0	4919.5	4758.8	3970.5	3250.4	2912.9	2830.8	2799.6	2820.4	2874.7	2911.7
37.5°	4980.8	5159.9	4828.2	3742.8	2954.5	2711.7	2615.8	2544.1	2525.6	2547.6	2566.1
40°	5289.4	5526.4	4860.6	3424.9	2665.5	2510.6	2413.5	2308.3	2235.5	2182.3	2183.5
42.5°	5793.4	6003.7	4839.8	3038.9	2398.5	2314.1	2204.3	2082.9	1965.0	1844.8	1835.6
45°	6611.7	6713.5	4777.3	2629.7	2163.8	2108.4	2005.5	1884.1	1726.9	1590.5	1577.8
47.5°	7921.4	7696.0	4680.2	2272.5	1956.9	1933.8	1839.0	1699.2	1532.7	1422.9	1413.7
50°	9707.2	9114.3	4632.8	1988.1	1774.3	1781.2	1703.8	1555.8	1398.6	1317.7	1308.5
52.5°	11843.3	10766.0	4724.2	1768.5	1627.5	1651.8	1594.0	1455.3	1323.5	1259.9	1250.7
55°	14059.2	12476.8	4822.4	1609.0	1488.8	1536.2	1516.5	1402.1	1283.0	1224.1	1216.0
57.5°	15956.0	13754.1	4625.9	1479.6	1365.1	1439.1	1456.4	1368.6	1262.2	1209.1	1199.8
60°	17150.1	14268.4	4110.4	1358.2	1266.9	1361.6	1421.8	1359.3	1270.3	1265.7	1258.8
62.5°	17716.5	14223.3	3337.1	1262.2	1205.6	1328.1	1447.2	1411.4	1362.8	1404.4	1407.9
65°	17462.2	13543.7	2485.2	1198.7	1161.7	1340.8	1523.5	1509.6	1389.4	1431.0	1436.8
67.5°	15788.4	11921.9	1840.2	1143.2	1113.1	1376.7	1662.2	1542.0	1337.4	1367.4	1348.9
70°	12761.1	9451.8	1419.4	1080.8	1063.4	1372.1	1724.6	1522.3	1280.7	1287.7	1238.0
72.5°	8799.9	6445.3	1154.7	1023.0	991.8	1250.7	1680.7	1473.8	1233.3	1180.2	1114.3
75°	4785.4	3459.6	981.4	962.9	865.8	1098.1	1599.8	1439.1	1190.6	1120.1	1083.1
77.5°	1883.0	1435.6	851.9	880.8	757.1	969.8	1509.6	1373.2	1131.6	1039.2	1020.7
80°	768.7	732.8	706.3	761.7	650.8	848.4	1401.0	1295.8	1061.1	964.0	927.0
82.5°	435.8	455.4	549.1	601.1	528.2	781.4	1348.9	1233.3	976.7	863.5	819.5
85°	223.1	267.0	382.6	431.2	388.4	664.6	1242.6	1079.6	783.7	661.2	664.6
87.5°	107.5	149.1	241.6	270.5	252.0	480.9	928.2	782.5	610.3	483.2	468.1
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)