

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: P320908

Luminaire Tested: **GAN-SA4A-730-U-AFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320908  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA4A-730-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17563 lumens  
Efficiency: N/A  
Efficacy: 136.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

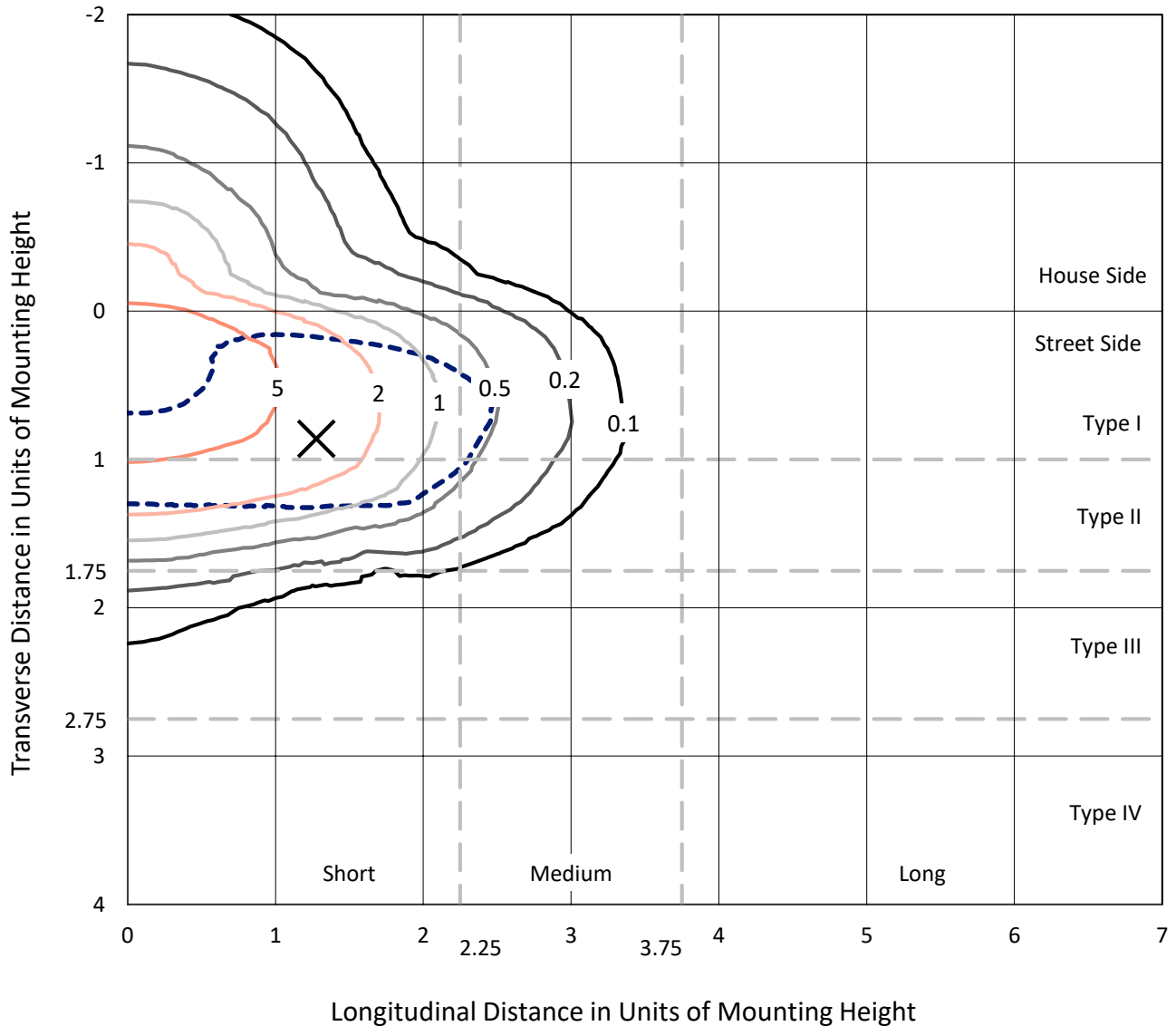
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

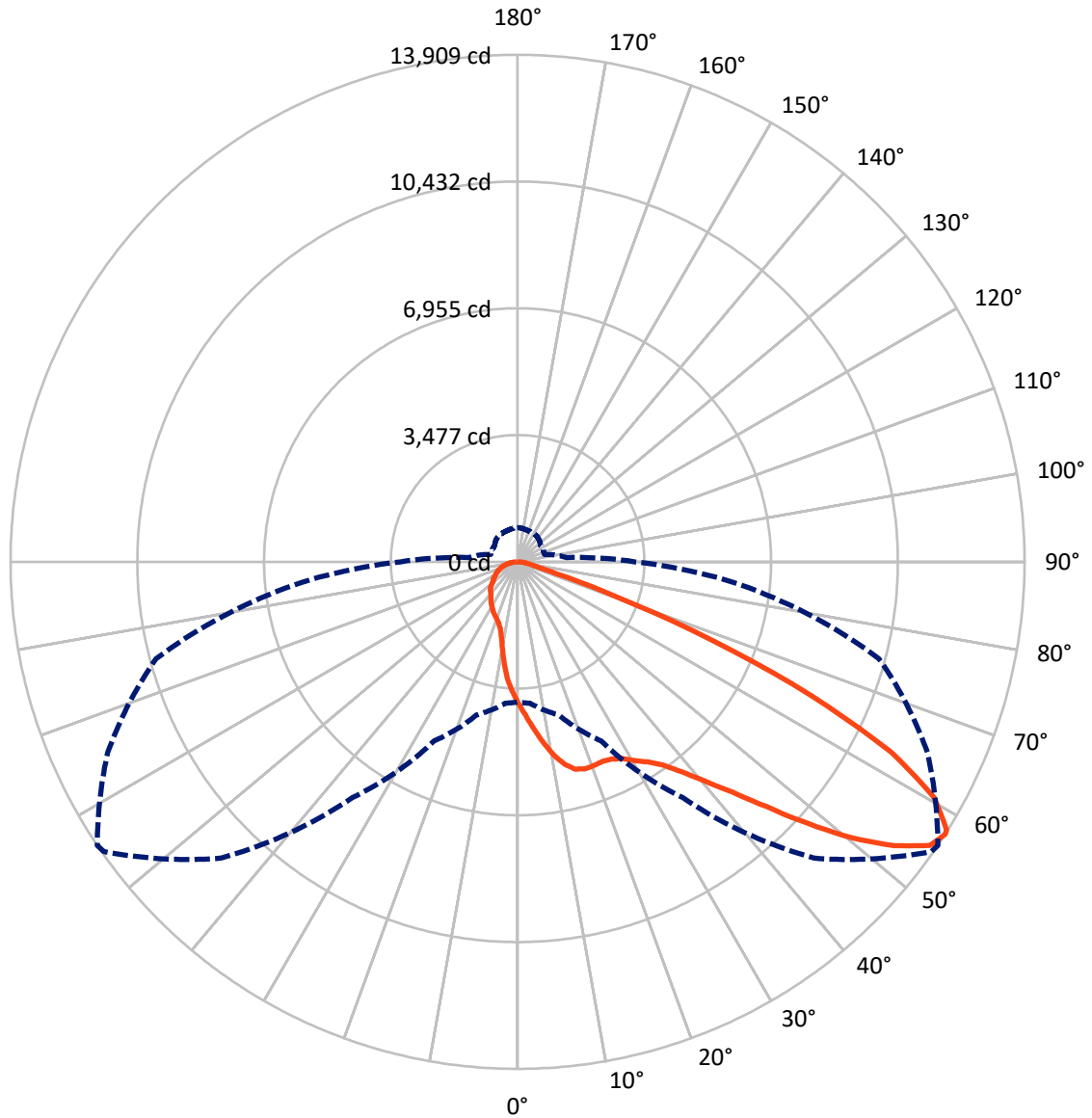
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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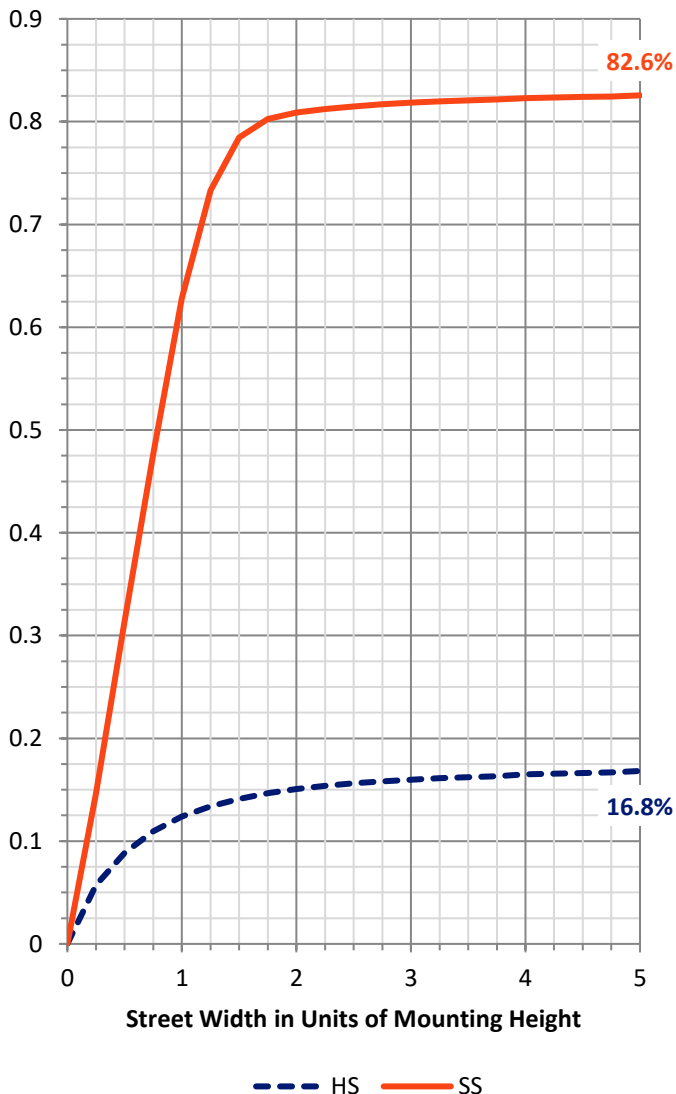
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3027.5	0.0	3027.5
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	14535.5	0.0	14535.5
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	17563.0	0.0	17563.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	372.1	2.1
10°-20°	1052.1	6.0
20°-30°	1713.6	9.8
30°-40°	2561.6	14.6
40°-50°	3885.5	22.1
50°-60°	4354.9	24.8
60°-70°	2572.2	14.6
70°-80°	842.7	4.8
80°-90°	208.2	1.2
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°	17563.0	100.0
0°-180°	17563.0	100.0

**Coefficient of Utilization**

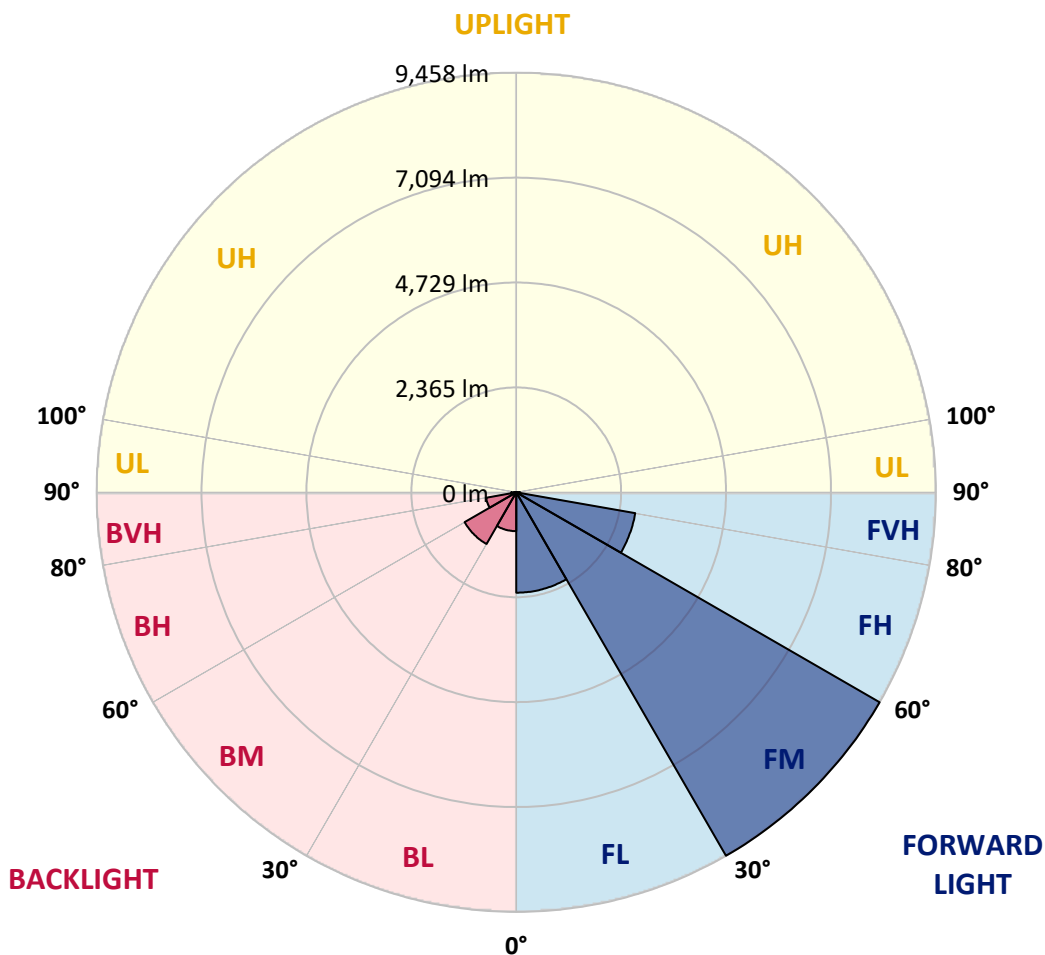


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2262.4	12.9			
FM (30°-60°)	9458.3	53.9			
FH (60°-80°)	2723.2	15.5			G2/5000
FVH (80°-90°)	91.7	0.5			G1/100
BL (0°-30°)	875.4	5.0	B2/1000		
BM (30°-60°)	1343.8	7.7	B2/2500		
BH (60°-80°)	691.7	3.9	B2/1000		G2/1000
BVH (80°-90°)	116.5	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3895.5	3895.5	3895.5	3895.5	3895.5	3895.5	3895.5	3895.5	3895.5	3895.5	3895.5
2.5°	4473.1	4514.2	4496.0	4433.3	4385.0	4316.8	4240.7	4217.8	4137.5	4047.6	3939.6
5°	5181.1	5160.6	5131.0	5033.2	4930.0	4809.9	4619.2	4589.0	4410.3	4206.9	3992.1
7.5°	5584.3	5582.5	5565.0	5507.6	5413.5	5256.6	5026.6	4991.0	4721.2	4394.0	4060.9
10°	5525.8	5521.5	5550.5	5610.3	5638.6	5606.0	5412.3	5376.7	5045.3	4601.1	4140.5
12.5°	5193.2	5195.6	5242.1	5367.6	5538.4	5743.6	5712.3	5694.8	5381.5	4835.3	4237.1
15°	4934.2	4939.7	4976.5	5085.7	5287.3	5659.7	5894.5	5900.6	5706.8	5093.6	4350.0
17.5°	4820.8	4832.2	4849.1	4925.8	5110.5	5492.6	5938.0	5970.6	5991.7	5361.6	4458.6
20°	4857.0	4867.9	4872.7	4921.6	5073.1	5391.2	5907.8	5966.4	6210.2	5613.9	4567.3
22.5°	5019.4	5026.0	5029.0	5041.7	5159.4	5420.1	5887.9	5949.5	6368.3	5840.2	4649.4
25°	5288.5	5283.7	5264.4	5248.1	5327.2	5534.8	5933.8	5992.3	6496.9	6045.4	4703.1
27.5°	5610.9	5604.8	5567.4	5522.7	5568.0	5713.5	6066.0	6112.4	6612.2	6237.4	4730.2
30°	5997.7	5982.1	5911.4	5858.3	5875.8	5981.5	6283.8	6326.1	6790.2	6455.3	4756.8
32.5°	6445.0	6428.1	6326.1	6238.0	6238.0	6326.1	6508.4	6543.4	6941.1	6701.5	4799.6
35°	7005.1	6984.0	6851.2	6703.3	6661.7	6706.3	6814.4	6839.1	7212.8	7011.8	4877.5
37.5°	7665.4	7637.1	7465.0	7267.1	7175.9	7173.5	7251.4	7302.1	7646.7	7419.2	5009.7
40°	8327.6	8307.6	8157.4	8001.6	7823.0	7765.6	7885.7	7901.4	8214.1	7925.0	5178.7
42.5°	8839.4	8835.8	8808.0	8828.5	8645.6	8529.8	8623.9	8636.6	8907.0	8472.4	5358.6
45°	9109.8	9115.8	9250.4	9548.6	9616.2	9531.7	9578.2	9581.8	9698.9	9024.7	5523.3
47.5°	8893.1	8924.5	9264.9	9931.9	10485.3	10766.0	10688.8	10733.4	10466.6	9499.1	5652.5
50°	8048.7	8087.3	8666.8	9761.1	10891.0	11960.5	11920.1	11909.8	11085.9	9846.8	5722.5
52.5°	7002.7	7032.9	7510.9	8873.2	10593.4	12620.8	12992.0	12938.9	11636.4	10106.9	5735.8
55°	5409.9	5456.9	5915.1	7101.1	9389.9	12368.5	13780.3	13732.6	12137.9	10243.3	5720.1
57°	3846.0	3895.5	4350.6	5419.5	7899.0	11495.1	13858.7	13909.4	12409.0	10266.3	5737.6
57.5°	3431.9	3482.6	3933.5	4971.7	7434.3	11179.5	13791.1	13875.6	12457.8	10262.6	5747.3
60°	1728.0	1747.4	2034.7	2775.2	4699.5	9038.0	12909.3	13127.2	12501.9	10085.2	5788.9
62.5°	1074.4	1060.5	1051.4	1278.4	2286.4	5993.5	11089.5	11509.0	11658.7	9655.4	5688.1
65°	944.6	918.6	819.1	800.9	1009.8	2911.1	8351.1	8873.2	9857.0	8978.2	5447.9
67.5°	887.3	861.9	749.6	682.0	682.6	1154.0	5184.7	5772.6	7678.7	7833.2	4881.1
70°	828.1	805.2	700.1	620.5	581.2	639.2	2385.3	2831.4	5005.5	6157.1	4079.6
72.5°	752.1	736.4	636.8	554.7	513.0	478.6	913.2	1078.6	2897.8	4135.1	2833.2
75°	672.4	657.9	572.8	494.3	443.6	376.6	514.2	554.1	1472.1	2115.5	1394.9
77.5°	584.9	576.4	509.4	437.0	396.6	312.0	364.0	383.3	631.3	907.2	699.5
80°	465.4	481.7	445.4	389.3	351.9	249.9	257.7	270.4	367.6	443.0	397.2
82.5°	303.0	331.4	348.9	316.3	289.7	196.8	185.3	190.7	239.6	270.4	172.6
85°	126.1	141.8	229.4	207.0	192.5	143.7	124.3	126.8	148.5	153.9	70.6
87.5°	56.1	59.8	100.8	94.8	81.5	49.5	53.1	57.9	79.1	74.8	27.2
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°	3895.5	3895.5	3895.5	3895.5	3895.5	3895.5	3895.5	3895.5	3895.5	3895.5	3895.5
2.5°	3899.1	3848.4	3761.5	3665.5	3587.1	3524.3	3460.9	3417.5	3366.8	3339.6	3325.7
5°	3902.1	3802.5	3619.7	3431.9	3264.1	3110.8	2964.8	2852.5	2747.5	2690.7	2675.1
7.5°	3914.8	3765.1	3469.4	3160.3	2862.2	2590.0	2379.9	2248.3	2153.6	2111.3	2099.2
10°	3925.1	3721.1	3283.5	2826.0	2420.3	2144.5	1981.5	1907.9	1875.3	1869.9	1864.5
12.5°	3949.2	3675.8	3087.9	2477.1	2076.9	1886.2	1829.4	1824.6	1833.7	1846.9	1846.9
15°	3987.2	3631.1	2864.6	2177.7	1858.4	1791.4	1802.9	1829.4	1854.2	1874.7	1877.7
17.5°	4015.0	3576.2	2624.4	1938.1	1741.9	1760.0	1801.1	1838.5	1863.8	1883.8	1885.6
20°	4034.9	3491.1	2367.8	1755.2	1674.9	1731.1	1782.4	1815.6	1833.1	1853.0	1856.0
22.5°	4024.7	3377.0	2140.3	1624.2	1620.6	1688.8	1737.7	1777.5	1764.3	1744.9	1757.6
25°	3975.2	3220.1	1906.1	1526.4	1563.3	1632.1	1692.4	1665.9	1621.2	1612.8	1617.6
27.5°	3887.0	3019.7	1689.4	1435.9	1496.9	1579.6	1575.9	1549.4	1533.7	1522.8	1529.5
30°	3792.3	2802.4	1499.9	1356.8	1423.2	1491.4	1477.6	1477.0	1461.3	1443.8	1452.2
32.5°	3698.7	2583.9	1349.6	1291.7	1367.7	1376.8	1406.9	1416.0	1385.2	1348.4	1346.0
35°	3617.2	2377.5	1235.5	1232.5	1300.7	1301.9	1346.0	1333.3	1256.6	1218.6	1218.6
37.5°	3556.3	2171.7	1148.6	1179.4	1212.6	1244.0	1266.3	1213.8	1201.1	1180.0	1179.4
40°	3529.7	1990.6	1094.3	1139.0	1150.4	1190.3	1132.9	1153.4	1159.5	1148.6	1148.6
42.5°	3502.0	1833.1	1047.2	1108.2	1106.4	1100.9	1072.0	1098.5	1122.7	1123.3	1121.4
45°	3474.2	1697.3	1005.6	1042.4	1067.7	1009.2	1014.6	1043.0	1076.8	1088.9	1088.9
47.5°	3443.4	1589.8	967.5	973.0	1012.2	973.0	968.7	990.5	1030.3	1049.6	1053.8
50°	3375.8	1493.3	924.1	912.0	922.9	936.1	939.8	950.0	994.1	1024.9	1032.1
52.5°	3282.3	1406.9	868.5	855.9	855.9	906.0	922.9	925.9	963.3	1000.1	1007.4
55°	3204.4	1352.0	811.2	808.8	806.4	874.0	903.0	907.8	933.7	962.7	966.3
57°	3209.8	1347.8	767.1	769.6	769.0	841.4	884.2	894.5	907.8	932.5	936.8
57.5°	3212.8	1350.8	757.5	758.7	758.1	832.3	878.8	890.3	900.5	926.5	930.7
60°	3258.1	1358.7	718.3	705.0	708.0	784.0	848.0	862.5	869.2	903.6	909.0
62.5°	3191.1	1323.6	686.9	654.9	654.9	733.3	805.2	828.1	838.4	884.8	893.9
65°	2996.8	1225.3	650.1	598.1	604.2	682.6	753.9	791.3	807.0	864.9	874.6
67.5°	2696.8	1111.2	610.8	547.4	553.5	629.5	700.8	741.2	765.9	843.2	851.0
70°	2306.3	971.8	557.7	493.7	501.0	571.6	638.0	683.9	720.7	822.7	825.1
72.5°	1700.3	796.7	483.5	434.6	442.4	504.0	574.6	627.7	677.2	771.4	770.2
75°	1011.0	622.9	401.4	374.8	380.3	437.6	517.3	581.8	656.1	751.5	762.9
77.5°	613.2	469.0	327.1	313.9	320.5	379.0	476.2	545.0	647.0	708.6	705.0
80°	370.6	335.0	261.3	252.9	259.5	324.1	440.6	517.3	565.6	605.4	605.4
82.5°	193.7	204.6	191.9	185.3	194.4	263.2	400.8	451.5	499.8	429.1	400.8
85°	79.1	106.8	116.5	115.9	121.3	182.3	345.8	386.3	322.3	306.0	313.3
87.5°	26.6	45.3	56.7	48.9	51.3	114.7	239.6	186.5	221.5	154.5	146.7
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)