

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: P317722

Luminaire Tested: **GAN-SA8B-730-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317722  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA8B-730-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42645 lumens  
Efficiency: N/A  
Efficacy: 127.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

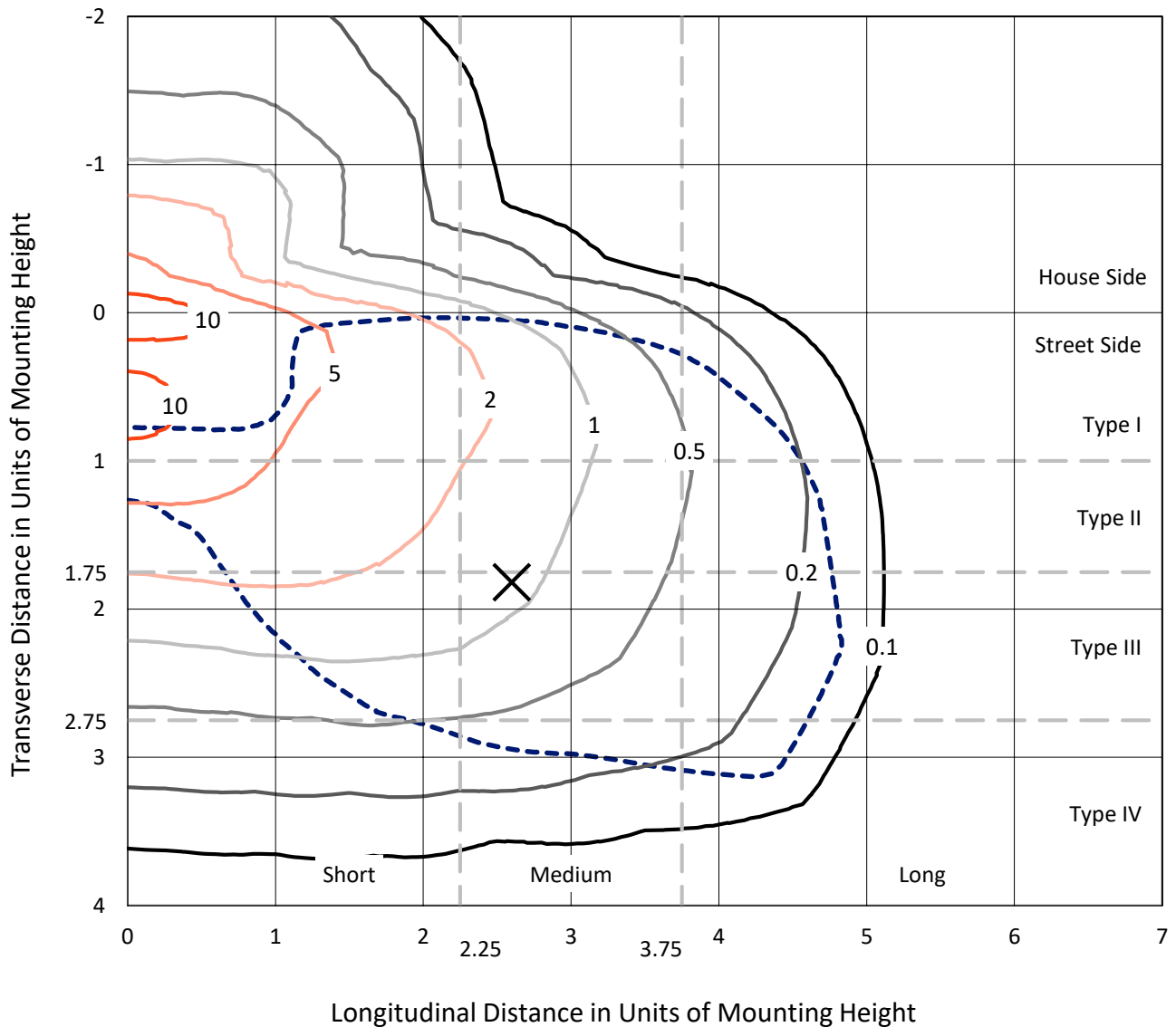
Input Watts (W): 334  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

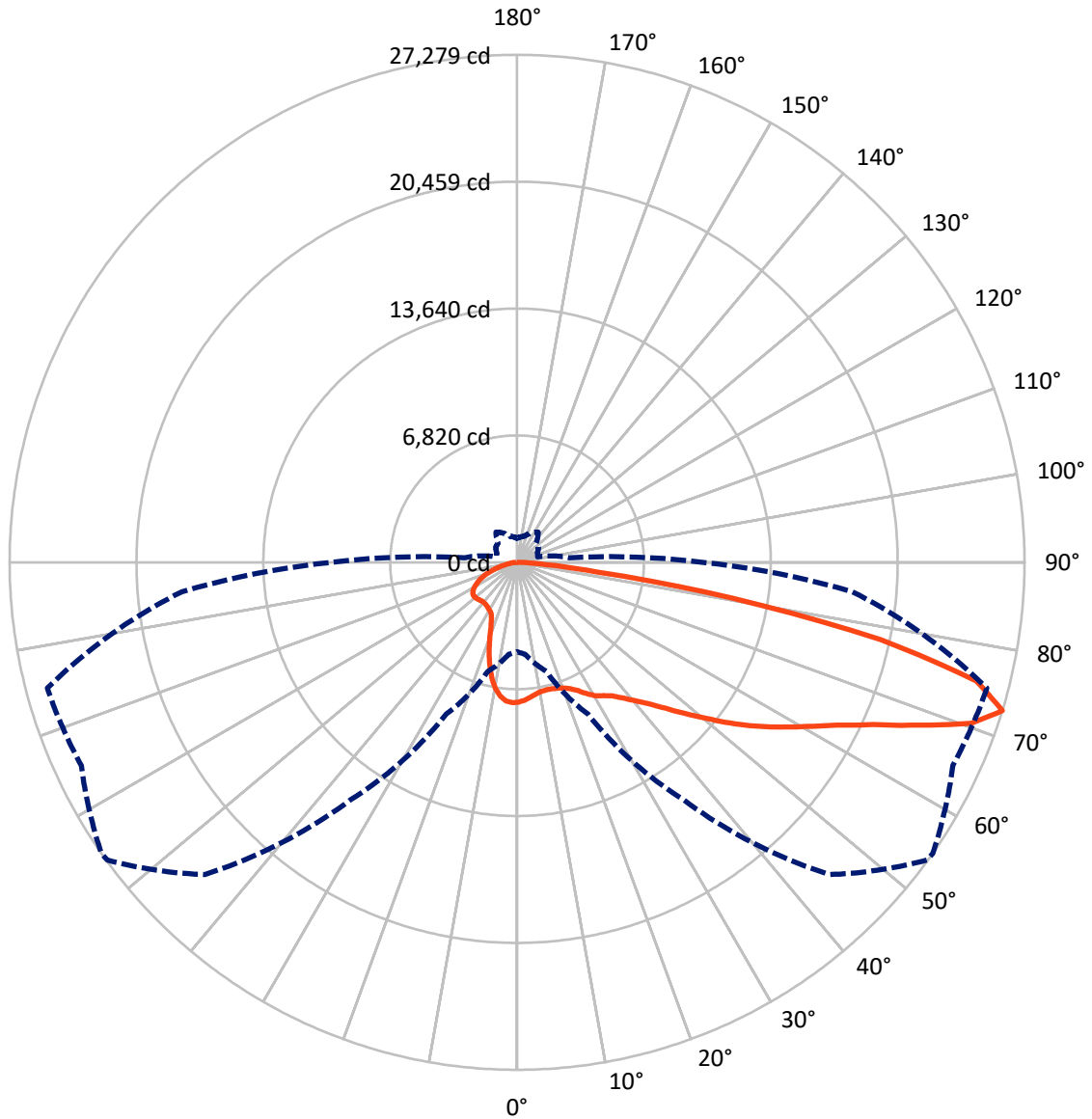
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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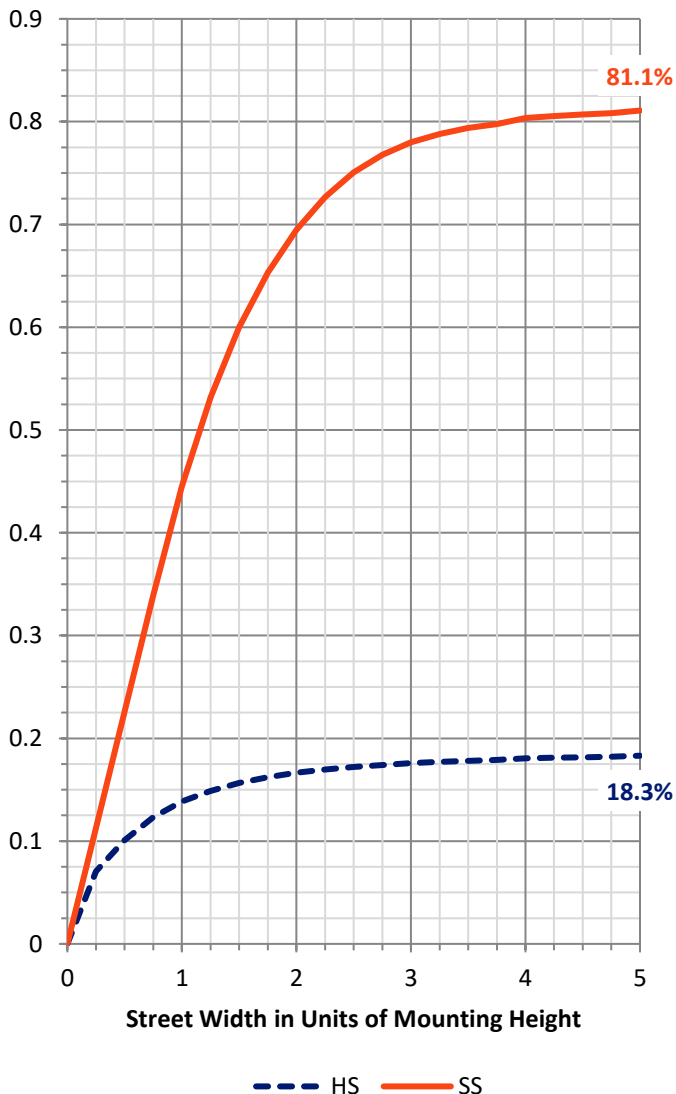
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7926.3	0.0	7926.3
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	34718.7	0.0	34718.7
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	42645.0	0.0	42645.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	680.6	1.6
10°-20°	1812.1	4.2
20°-30°	2987.6	7.0
30°-40°	4419.5	10.4
40°-50°	6168.7	14.5
50°-60°	8031.8	18.8
60°-70°	9870.8	23.1
70°-80°	7737.5	18.1
80°-90°	936.4	2.2
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°	42645.0	100.0
0°-180°	42645.0	100.0

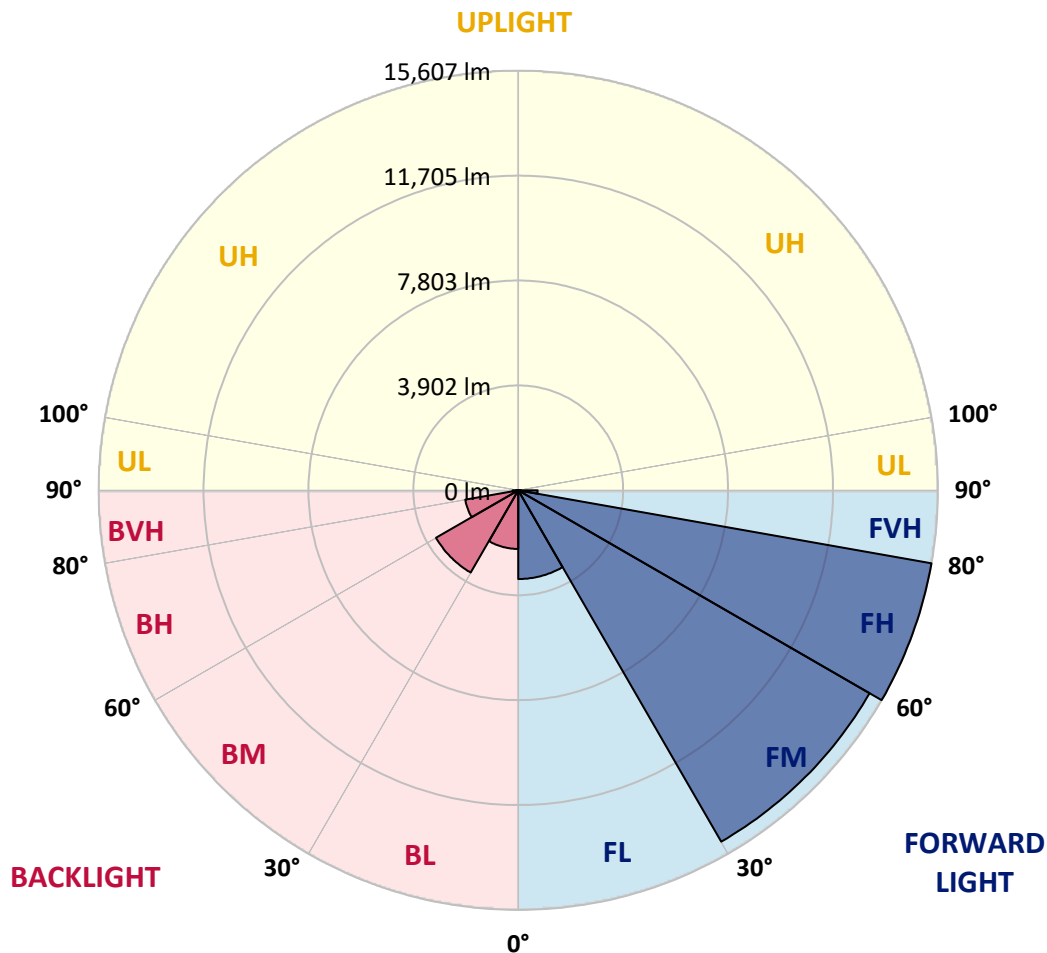


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3299.5	7.7			
FM (30°-60°)	15088.6	35.4			
FH (60°-80°)	15606.6	36.6			G5
FVH (80°-90°)	723.9	1.7			G4/750
BL (0°-30°)	2180.9	5.1	B3/2500		
BM (30°-60°)	3531.3	8.3	B3/5000		
BH (60°-80°)	2001.8	4.7	B3/2500		G3/2500
BVH (80°-90°)	212.4	0.5			G2/225
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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7521.7	7521.7	7521.7	7521.7	7521.7	7521.7	7521.7	7521.7	7521.7	7521.7	7521.7
2.5°	7276.8	7259.5	7281.1	7311.4	7344.5	7389.1	7415.1	7426.6	7471.2	7488.5	7526.0
5°	6939.7	6931.1	6967.1	7019.0	7092.4	7196.1	7279.7	7295.5	7413.6	7497.2	7573.5
7.5°	6694.9	6694.9	6736.7	6798.6	6880.7	7020.4	7138.5	7160.1	7360.3	7540.4	7681.5
10°	6500.4	6507.6	6556.6	6630.1	6726.6	6874.9	7031.9	7056.4	7345.9	7641.2	7865.9
12.5°	6370.8	6388.1	6432.7	6499.0	6618.5	6798.6	6997.4	7030.5	7376.2	7785.2	8087.7
15°	6452.9	6481.7	6486.0	6513.4	6579.7	6775.5	7017.5	7052.1	7441.0	7932.2	8339.8
17.5°	6813.0	6823.1	6778.4	6720.8	6689.1	6814.4	7078.0	7114.0	7518.8	8077.6	8581.8
20°	7360.3	7354.6	7258.1	7102.5	6941.2	6961.4	7177.4	7214.9	7623.9	8205.8	8823.8
22.5°	8051.7	8031.6	7883.2	7596.6	7321.4	7206.2	7351.7	7383.4	7782.4	8388.8	9083.0
25°	8890.0	8845.4	8649.5	8264.9	7860.1	7563.4	7613.8	7644.1	8012.8	8593.3	9320.7
27.5°	9774.4	9729.8	9480.6	9015.3	8476.6	8014.3	7975.4	8001.3	8275.0	8744.5	9496.4
30°	10699.1	10651.6	10424.0	9902.6	9130.6	8481.0	8312.4	8322.5	8459.3	8826.6	9640.5
32.5°	11628.2	11583.5	11328.6	10723.6	9840.7	8982.2	8555.9	8542.9	8570.3	8911.6	9803.2
35°	12570.2	12587.5	12289.3	11619.5	10627.1	9539.6	8843.9	8816.6	8756.1	9085.9	10033.7
37.5°	13578.5	13566.9	13180.9	12480.9	11449.6	10144.6	9257.3	9253.0	9044.1	9415.8	10395.2
40°	14252.6	14259.8	14025.0	13362.4	12280.7	10814.4	9787.4	9777.3	9503.6	9909.8	10869.1
42.5°	14516.1	14563.7	14624.2	14203.6	13150.7	11590.7	10419.7	10405.3	10144.6	10618.5	11426.5
45°	14534.9	14629.9	15004.4	14951.1	14032.2	12479.4	11227.8	11187.4	11000.2	11560.5	12092.0
47.5°	14373.5	14471.5	15093.7	15396.2	14820.1	13417.1	12172.6	12141.0	11979.6	12738.7	12812.2
50°	14020.7	14114.3	14909.4	15613.7	15468.2	14318.8	13261.6	13178.0	13091.6	14099.9	13636.1
52.5°	13359.5	13539.6	14663.1	15665.6	15855.7	15119.7	14406.7	14351.9	14399.5	15535.9	14461.4
55°	11793.8	11995.5	14027.9	15622.4	16142.3	15792.3	15551.8	15548.9	15795.2	17042.6	15347.2
57.5°	10916.6	11059.2	12734.4	15548.9	16482.3	16460.7	16685.4	16712.7	17192.4	18683.2	16274.8
60°	10421.1	10570.9	12079.0	15276.7	17009.4	17324.9	17842.0	17896.7	18612.6	20499.5	17391.1
62.5°	9970.3	10134.5	11672.8	14722.1	17630.2	18560.7	19227.6	19276.6	20116.3	22366.2	18470.0
65°	9199.7	9385.5	11078.0	14357.7	18194.9	20172.5	20989.2	21022.3	21843.4	24322.2	19295.3
67.5°	8110.8	8280.7	9955.9	13552.5	18612.6	22130.0	23331.3	23350.0	23556.0	25703.6	19717.4
70°	6838.9	6903.7	8357.1	11890.3	18118.5	23960.7	25898.0	25902.3	25117.3	26588.0	19648.2
72.5°	4805.1	4957.8	6066.9	9000.9	15570.5	23737.5	27230.4	27279.3	25843.3	26141.4	18078.2
75°	2947.0	3108.3	3805.5	5454.7	9878.1	18668.8	25159.1	25499.0	24482.1	23308.2	14768.2
77.5°	1970.4	2030.9	2483.2	3180.4	4475.3	10740.9	19342.9	19982.4	20338.2	16997.9	9444.6
80°	1099.0	1214.2	1646.4	1976.2	1990.6	4267.8	11597.9	11747.7	11315.6	6768.3	2913.9
82.5°	581.9	645.3	1099.0	1160.9	1086.0	1428.9	4322.6	4326.9	3615.4	1814.9	865.7
85°	450.8	504.1	753.3	708.7	554.5	633.8	1426.0	1503.8	1230.1	743.2	282.3
87.5°	224.7	279.4	511.3	449.4	217.5	181.5	509.9	544.5	485.4	291.0	102.3
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°	7521.7	7521.7	7521.7	7521.7	7521.7	7521.7	7521.7	7521.7	7521.7	7521.7	7521.7
2.5°	7540.4	7553.3	7569.2	7551.9	7546.1	7523.1	7484.2	7475.6	7455.4	7456.8	7468.4
5°	7606.6	7628.2	7619.6	7553.3	7474.1	7363.2	7248.0	7150.0	7085.2	7080.9	7076.6
7.5°	7733.4	7747.8	7680.1	7491.4	7269.6	7013.2	6771.2	6559.5	6431.3	6399.6	6392.4
10°	7932.2	7929.3	7743.5	7363.2	6921.0	6463.0	6074.1	5780.2	5608.8	5558.4	5545.5
12.5°	8154.0	8120.9	7765.1	7129.9	6428.4	5793.2	5300.6	4973.6	4795.0	4737.4	4723.0
15°	8383.0	8300.9	7711.8	6781.3	5823.5	5071.6	4554.5	4252.0	4155.5	4123.8	4118.0
17.5°	8596.2	8437.7	7559.1	6308.9	5133.5	4352.8	3949.5	3828.5	3851.6	3893.3	3894.8
20°	8805.0	8529.9	7314.2	5712.5	4406.1	3760.8	3624.0	3713.3	3822.8	3907.7	3919.3
22.5°	9011.0	8594.7	6998.8	5024.0	3755.1	3428.1	3524.6	3687.4	3812.7	3904.9	3920.7
25°	9183.9	8610.6	6563.8	4289.4	3302.8	3302.8	3477.1	3631.2	3755.1	3845.8	3861.7
27.5°	9247.2	8504.0	5950.2	3609.6	3075.2	3245.2	3410.8	3539.0	3644.2	3740.7	3757.9
30°	9271.7	8306.7	5241.5	3063.7	2981.6	3183.2	3321.5	3431.0	3530.4	3621.1	3637.0
32.5°	9276.0	8069.0	4489.7	2754.0	2916.8	3118.4	3210.6	3307.1	3413.7	3449.7	3455.5
35°	9303.4	7788.1	3697.5	2595.6	2856.3	3057.9	3131.4	3200.5	3027.7	3040.6	3052.2
37.5°	9382.6	7510.1	3034.9	2506.3	2817.4	3026.2	3114.1	2863.5	2728.1	2696.4	2692.1
40°	9531.0	7213.4	2543.7	2434.2	2803.0	3042.1	3003.2	2673.3	2440.0	2265.7	2239.8
42.5°	9737.0	6893.7	2229.7	2386.7	2813.1	3118.4	2849.1	2490.4	2103.0	1990.6	1976.2
45°	9968.9	6558.0	2059.7	2353.6	2847.6	3177.5	2817.4	2247.0	1946.0	1861.0	1853.8
47.5°	10193.6	6147.5	1971.9	2339.2	2895.2	3129.9	2683.4	2172.1	1871.1	1826.4	1830.7
50°	10451.4	5777.4	1918.6	2323.3	2936.9	3099.7	2532.2	2133.2	1842.2	1897.0	1954.6
52.5°	10668.9	5394.2	1871.1	2291.6	2952.8	3046.4	2493.3	2140.4	1842.2	1947.4	2002.1
55°	10926.7	5104.7	1816.3	2225.4	2922.5	2895.2	2465.9	2183.6	1863.9	1797.6	1803.4
57.5°	11259.4	5009.6	1755.8	2121.7	2821.7	2674.8	2453.0	2225.4	1850.9	1809.1	1823.5
60°	11720.4	5110.5	1731.3	1986.3	2664.7	2501.9	2454.4	2203.8	1760.1	1688.1	1689.6
62.5°	12159.7	5222.8	1729.9	1901.3	2471.7	2347.8	2421.3	2133.2	1714.1	1672.3	1688.1
65°	12303.7	5109.0	1660.8	1806.2	2254.2	2163.4	2360.8	2058.3	1679.5	1616.1	1613.2
67.5°	12110.7	4756.1	1521.0	1652.1	2005.0	1948.8	2281.6	1969.0	1624.7	1572.9	1564.3
70°	11537.4	3968.2	1348.2	1449.0	1721.3	1706.8	2156.2	1865.3	1551.3	1506.6	1469.2
72.5°	9994.8	2827.5	1136.5	1205.6	1401.5	1447.6	1983.4	1729.9	1447.6	1351.1	1293.5
75°	8208.7	2092.9	933.4	947.8	1064.4	1189.8	1745.7	1571.5	1325.1	1160.9	1116.3
77.5°	5026.9	1280.5	743.2	749.0	763.4	949.2	1437.5	1394.3	1169.6	967.9	936.2
80°	1627.6	698.6	537.3	564.6	521.4	695.7	1112.0	1186.9	1003.9	809.5	774.9
82.5°	619.4	407.6	363.0	381.7	361.5	466.7	810.9	950.7	822.5	665.5	541.6
85°	299.6	230.5	214.6	240.5	223.3	239.1	518.5	700.0	623.7	433.6	403.3
87.5°	106.6	102.3	82.1	110.9	95.1	85.0	158.4	352.9	411.9	298.2	266.5
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)