

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: P319101

Luminaire Tested: **GAN-SA7D-750-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319101  
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-SA7D-750-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 54498 lumens  
Efficiency: N/A  
Efficacy: 121.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

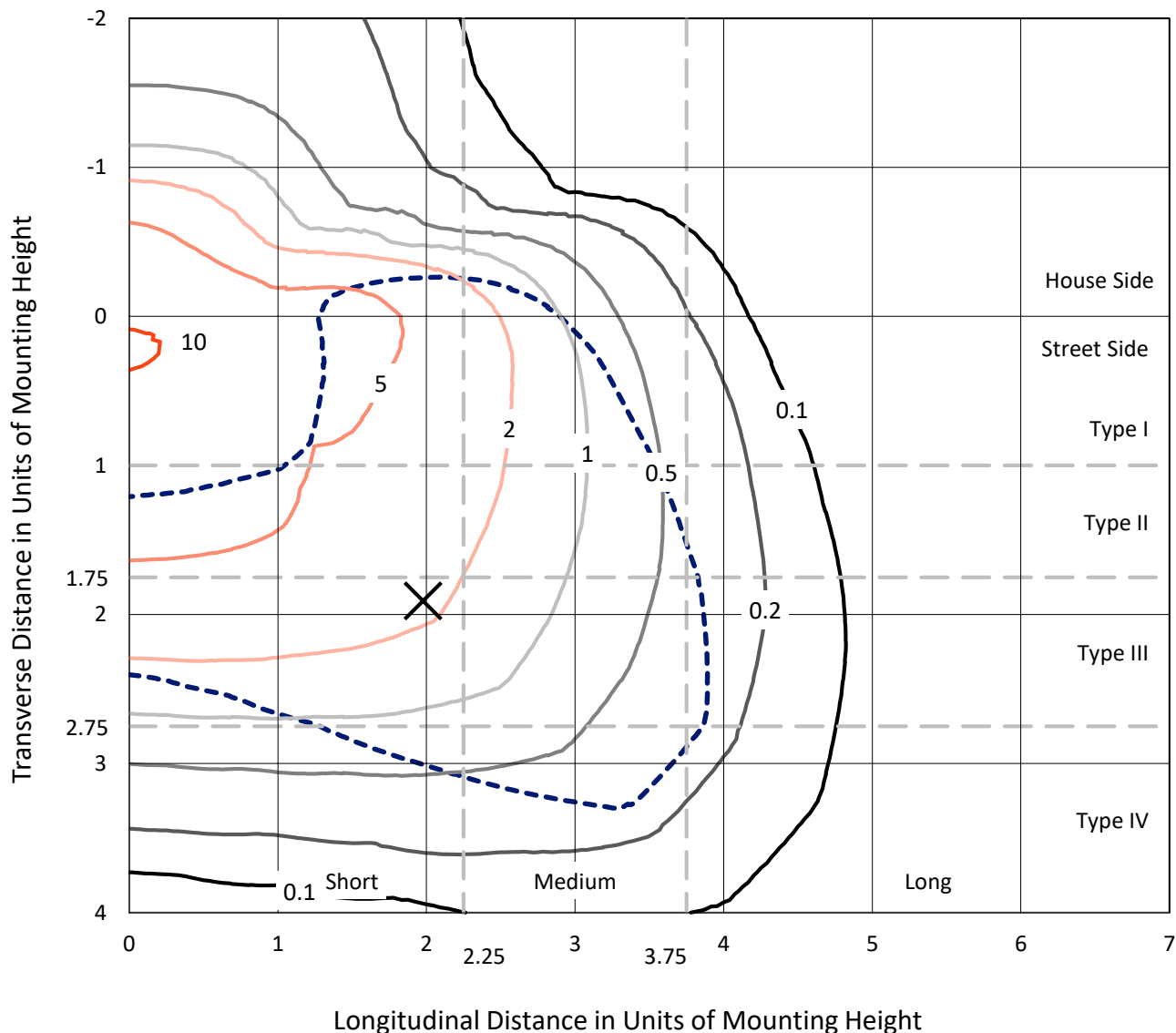
Input Watts (W): 448  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

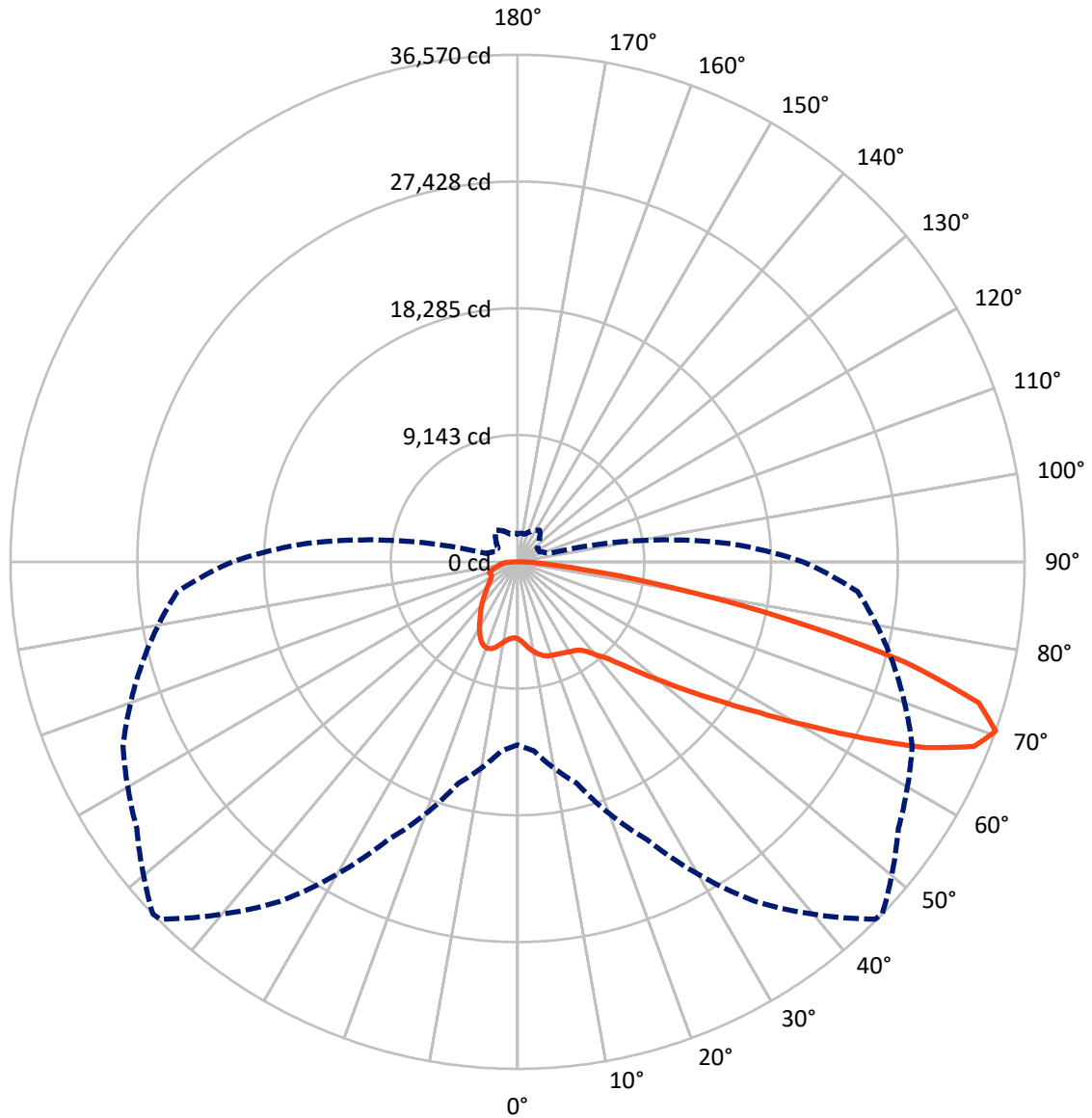
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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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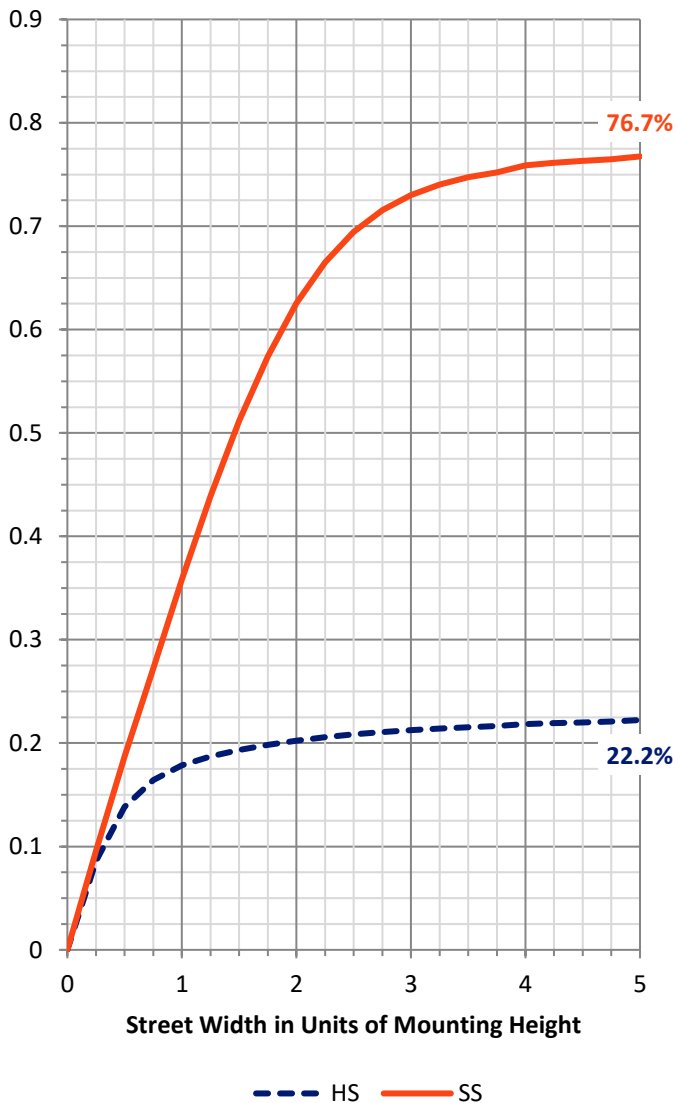
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12490.8	0.0	12490.8
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	42007.2	0.0	42007.2
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	54498.0	0.0	54498.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	566.0	1.0
10°-20°	1885.8	3.5
20°-30°	3144.3	5.8
30°-40°	4462.0	8.2
40°-50°	6563.4	12.0
50°-60°	11115.0	20.4
60°-70°	15777.6	29.0
70°-80°	9585.0	17.6
80°-90°	1398.8	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°	54498.0	100.0
0°-180°	54498.0	100.0

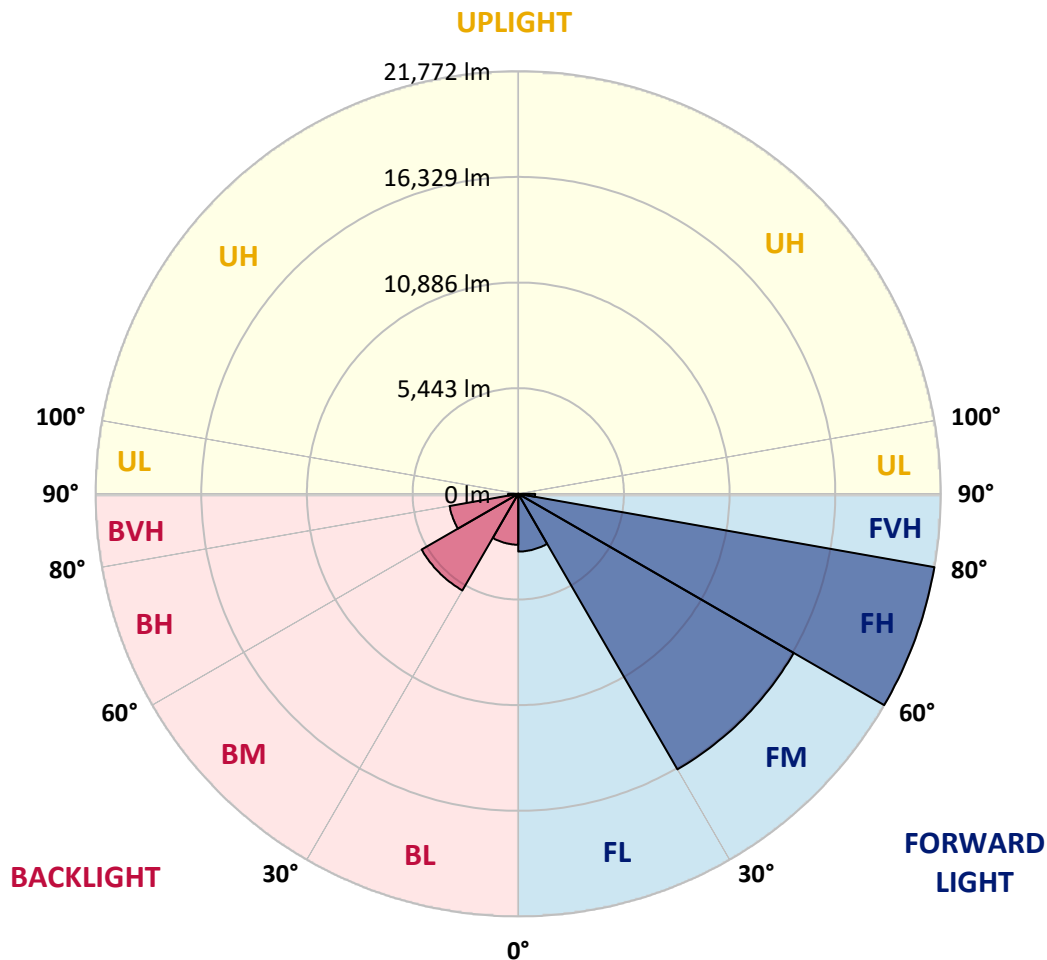


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2973.7	5.5			
FM (30°-60°)	16390.6	30.1			
FH (60°-80°)	21771.6	39.9			G5
FVH (80°-90°)	871.3	1.6			G5
BL (0°-30°)	2622.5	4.8	B4/5000		
BM (30°-60°)	5749.8	10.6	B4/8500		
BH (60°-80°)	3591.0	6.6	B4/5000		G4/5000
BVH (80°-90°)	527.5	1.0			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	5552.3	5552.3	5552.3	5552.3	5552.3	5552.3	5552.3	5552.3	5552.3	5552.3	5552.3
2.5°	5830.2	5833.9	5841.4	5822.7	5770.5	5755.6	5750.0	5695.9	5660.5	5608.2	5563.5
5°	6296.4	6300.2	6289.0	6236.8	6121.1	6035.3	6027.9	5904.8	5792.9	5673.5	5584.0
7.5°	6783.2	6788.8	6753.4	6654.5	6492.3	6343.1	6333.7	6165.9	5996.2	5815.3	5681.0
10°	7214.0	7191.7	7133.8	6995.8	6803.7	6621.0	6613.5	6438.2	6242.4	6024.1	5845.1
12.5°	7501.3	7482.6	7408.0	7240.2	7029.4	6861.6	6846.6	6684.4	6494.1	6255.4	6040.9
15°	7659.8	7672.9	7572.1	7381.9	7176.7	7035.0	7021.9	6906.3	6736.6	6496.0	6249.8
17.5°	7680.3	7691.5	7594.5	7406.1	7238.3	7141.3	7135.7	7059.2	6936.2	6704.9	6447.5
20°	7560.9	7568.4	7488.2	7333.4	7223.4	7193.5	7191.7	7158.1	7066.7	6861.6	6611.6
22.5°	7387.5	7393.1	7335.3	7223.4	7186.1	7232.7	7245.8	7232.7	7167.4	6975.3	6740.3
25°	7344.6	7340.9	7281.2	7167.4	7199.1	7298.0	7314.8	7320.4	7275.6	7107.7	6904.4
27.5°	7551.6	7538.6	7424.8	7242.0	7262.5	7381.9	7404.3	7458.4	7430.4	7283.1	7091.0
30°	8150.3	8127.9	7894.8	7525.5	7424.8	7486.3	7514.3	7600.1	7605.7	7482.6	7339.0
32.5°	9161.2	9133.2	8715.4	8055.2	7699.0	7592.7	7618.8	7747.5	7816.5	7721.3	7566.5
35°	10438.7	10407.0	9858.7	8956.0	8157.8	7795.9	7814.6	7917.2	8055.2	7920.9	7715.7
37.5°	11770.4	11693.9	11166.1	10015.4	8887.0	8230.5	8230.5	8243.6	8308.8	8029.1	7891.1
40°	13094.6	13018.1	12540.7	11261.2	9830.7	8915.0	8872.1	8583.0	8530.8	8290.2	8243.6
42.5°	14325.5	14303.1	14021.5	12669.3	10938.6	9588.3	9528.6	9038.1	9049.3	8900.1	8901.9
45°	15634.8	15634.8	15405.4	14090.5	12229.2	10670.0	10610.3	9888.5	10000.4	9931.4	10097.4
47.5°	16703.5	16737.0	16705.3	15571.4	13730.6	12044.5	11936.4	11067.3	11380.6	11617.5	12100.5
50°	17794.5	17846.7	17852.3	17195.8	15545.3	13678.3	13555.2	12632.0	13331.4	14010.3	14959.6
52.5°	19378.0	19495.5	19027.3	18816.6	17768.4	15618.0	15496.8	14644.4	15812.0	16765.0	18400.7
55°	20845.8	20743.2	20409.3	20539.9	20148.2	17826.2	17734.8	16987.0	18576.0	19814.4	21938.7
57.5°	21640.3	21632.8	21968.5	22528.0	22714.5	20549.2	20472.7	19745.4	21692.5	22623.2	25260.4
60°	22572.8	22585.9	23417.7	24687.8	25456.2	23939.9	23906.3	23354.3	24719.5	25245.4	27865.8
62.5°	22703.4	22938.4	24370.7	26556.6	28022.5	27901.3	27975.9	26605.1	27427.6	27338.0	29811.1
65°	21202.0	21511.6	24104.0	27121.7	30573.9	32233.8	32302.8	29874.5	29563.0	29126.6	30506.8
67.5°	18124.6	18583.4	21399.7	25892.6	31415.0	35436.1	35533.1	32409.1	31334.8	29732.8	28831.9
70°	13189.7	13698.9	16533.7	22114.0	29915.5	36460.0	36570.1	33530.0	31402.0	28007.6	24613.2
72.5°	7967.5	8366.7	10703.6	16280.1	25249.2	34595.0	34790.8	32108.8	28669.7	23723.5	18175.0
75°	3498.8	3760.0	5175.5	9381.2	18076.1	28623.1	28867.4	27483.5	23294.6	17240.6	10742.7
77.5°	1490.2	1564.8	2122.4	4075.2	10218.7	19558.9	19894.6	20081.1	15804.5	9381.2	4539.6
80°	928.8	958.6	1201.1	1844.5	4782.0	10985.2	11347.0	11815.1	7848.2	3448.5	1585.3
82.5°	565.1	598.7	798.2	1115.3	2489.9	4979.7	5153.2	5483.3	3045.6	1490.2	820.6
85°	339.4	363.7	488.6	705.0	1417.4	1958.3	1956.4	2163.5	1434.2	958.6	432.7
87.5°	162.3	180.9	261.1	365.6	714.3	734.8	688.2	779.6	871.0	628.5	218.2
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°	5552.3	5552.3	5552.3	5552.3	5552.3	5552.3	5552.3	5552.3	5552.3	5552.3	5552.3
2.5°	5548.5	5541.1	5516.8	5498.2	5494.5	5483.3	5473.9	5479.5	5487.0	5488.9	5488.9
5°	5546.7	5526.2	5494.5	5481.4	5498.2	5520.6	5548.5	5585.9	5608.2	5625.0	5636.2
7.5°	5636.2	5597.0	5561.6	5554.1	5587.7	5647.4	5710.8	5789.1	5843.2	5880.5	5888.0
10°	5785.4	5736.9	5701.5	5708.9	5768.6	5854.4	5943.9	6044.7	6126.7	6177.1	6180.8
12.5°	5957.0	5910.4	5876.8	5908.5	6007.4	6111.8	6205.1	6292.7	6367.3	6417.7	6417.7
15°	6154.7	6121.1	6082.0	6154.7	6289.0	6382.2	6421.4	6464.3	6505.3	6542.6	6535.2
17.5°	6344.9	6313.2	6292.7	6378.5	6518.4	6561.3	6535.2	6503.5	6503.5	6524.0	6527.7
20°	6509.1	6481.1	6494.1	6578.1	6650.8	6606.0	6509.1	6408.3	6367.3	6378.5	6389.7
22.5°	6652.7	6639.6	6678.8	6717.9	6665.7	6509.1	6330.0	6193.9	6143.5	6139.8	6143.5
25°	6820.5	6818.7	6867.1	6796.3	6565.0	6275.9	6035.3	5902.9	5874.9	5897.3	5934.6
27.5°	7029.4	7049.9	7074.2	6814.9	6359.8	5923.4	5679.1	5587.7	5615.7	5669.8	5705.2
30°	7296.1	7352.1	7299.8	6768.3	6065.2	5520.6	5287.4	5261.3	5337.8	5414.3	5451.6
32.5°	7555.4	7643.0	7516.2	6647.1	5684.7	5093.5	4912.6	4905.1	4998.4	5073.0	5125.2
35°	7764.2	7937.7	7678.4	6406.5	5244.5	4699.9	4567.5	4517.2	4550.7	4638.4	4698.1
37.5°	8036.5	8325.6	7790.3	6039.1	4767.1	4375.4	4220.6	4105.0	4075.2	4110.6	4140.4
40°	8534.5	8916.8	7842.6	5526.2	4300.8	4050.9	3894.2	3724.5	3607.0	3521.2	3523.1
42.5°	9347.7	9687.1	7809.0	4903.2	3870.0	3733.8	3556.7	3360.8	3170.6	2976.6	2961.7
45°	10668.1	10832.3	7708.3	4243.0	3491.4	3401.9	3235.9	3040.0	2786.4	2566.3	2545.8
47.5°	12781.2	12417.6	7551.6	3666.7	3157.5	3120.2	2967.3	2741.6	2473.1	2295.9	2281.0
50°	15662.8	14706.0	7475.2	3207.9	2862.9	2874.1	2749.1	2510.4	2256.7	2126.2	2111.2
52.5°	19109.4	17371.2	7622.5	2853.5	2626.0	2665.2	2571.9	2348.1	2135.5	2032.9	2018.0
55°	22684.7	20131.4	7781.0	2596.2	2402.2	2478.7	2447.0	2262.3	2070.2	1975.1	1962.0
57.5°	25745.3	22192.3	7464.0	2387.3	2202.6	2322.0	2350.0	2208.2	2036.6	1950.9	1935.9
60°	27671.9	23022.3	6632.1	2191.4	2044.1	2197.0	2294.0	2193.3	2049.7	2042.2	2031.0
62.5°	28585.8	22949.5	5384.4	2036.6	1945.3	2143.0	2335.1	2277.2	2198.9	2266.0	2271.6
65°	28175.4	21852.9	4009.9	1934.1	1874.4	2163.5	2458.1	2435.8	2241.8	2308.9	2318.3
67.5°	25474.8	19236.2	2969.2	1844.5	1796.1	2221.3	2682.0	2488.0	2157.9	2206.4	2176.5
70°	20590.2	15250.6	2290.3	1743.8	1715.9	2213.8	2782.7	2456.3	2066.5	2077.7	1997.5
72.5°	14198.7	10399.6	1863.2	1650.6	1600.2	2018.0	2711.8	2377.9	1990.0	1904.2	1797.9
75°	7721.3	5582.1	1583.4	1553.6	1396.9	1771.8	2581.2	2322.0	1921.0	1807.2	1747.6
77.5°	3038.2	2316.4	1374.5	1421.2	1221.6	1564.8	2435.8	2215.7	1825.9	1676.7	1646.8
80°	1240.3	1182.4	1139.6	1229.1	1050.0	1369.0	2260.5	2090.7	1712.1	1555.5	1495.8
82.5°	703.1	734.8	885.9	969.8	852.3	1260.8	2176.5	1990.0	1576.0	1393.2	1322.3
85°	360.0	430.8	617.3	695.7	626.7	1072.4	2004.9	1742.0	1264.5	1066.8	1072.4
87.5°	173.5	240.6	389.8	436.4	406.6	775.9	1497.6	1262.6	984.8	779.6	755.3
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)