

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: P319061

Luminaire Tested: **GAN-SA7D-740-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319061
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-740-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 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: 54499 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

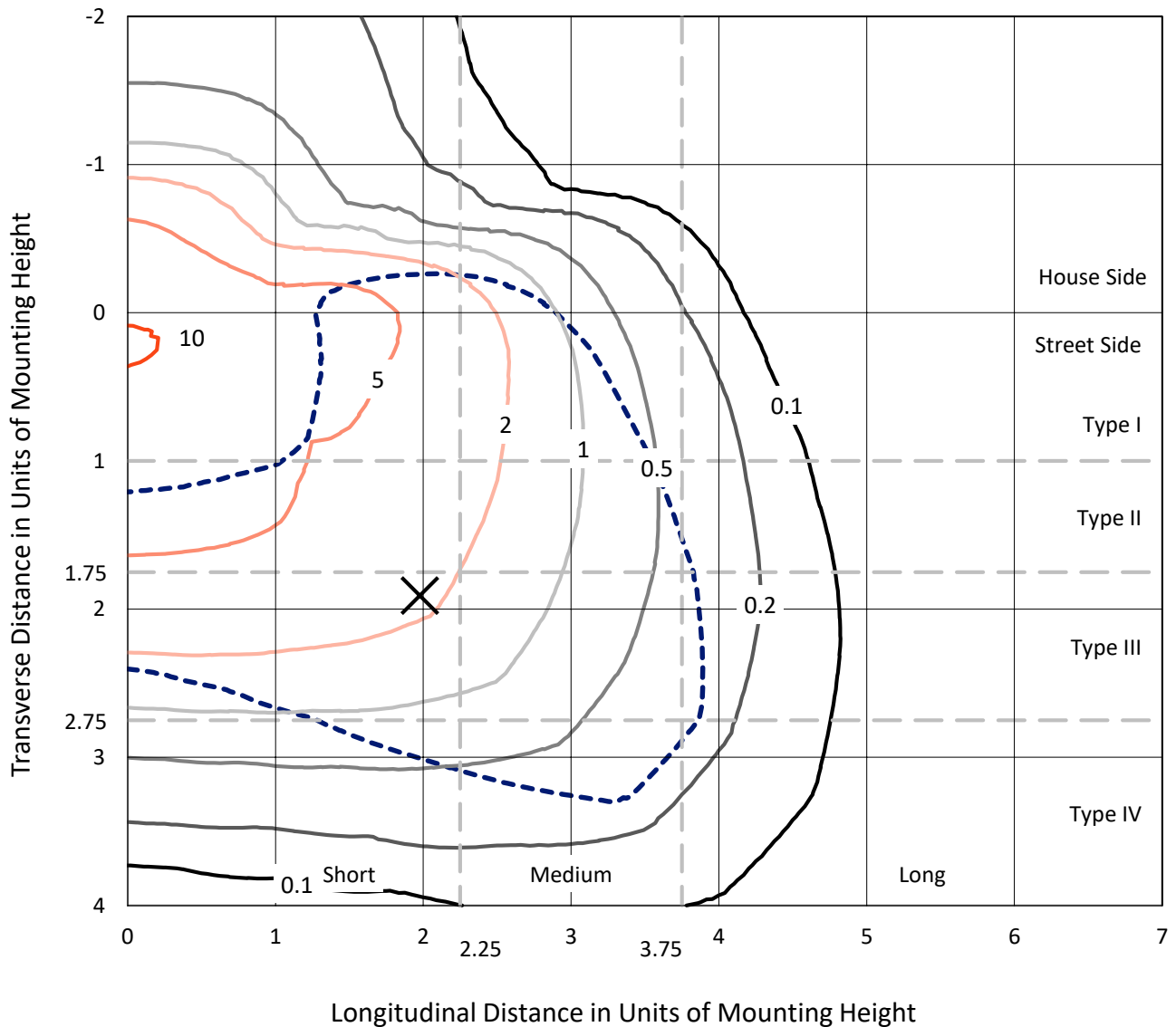
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

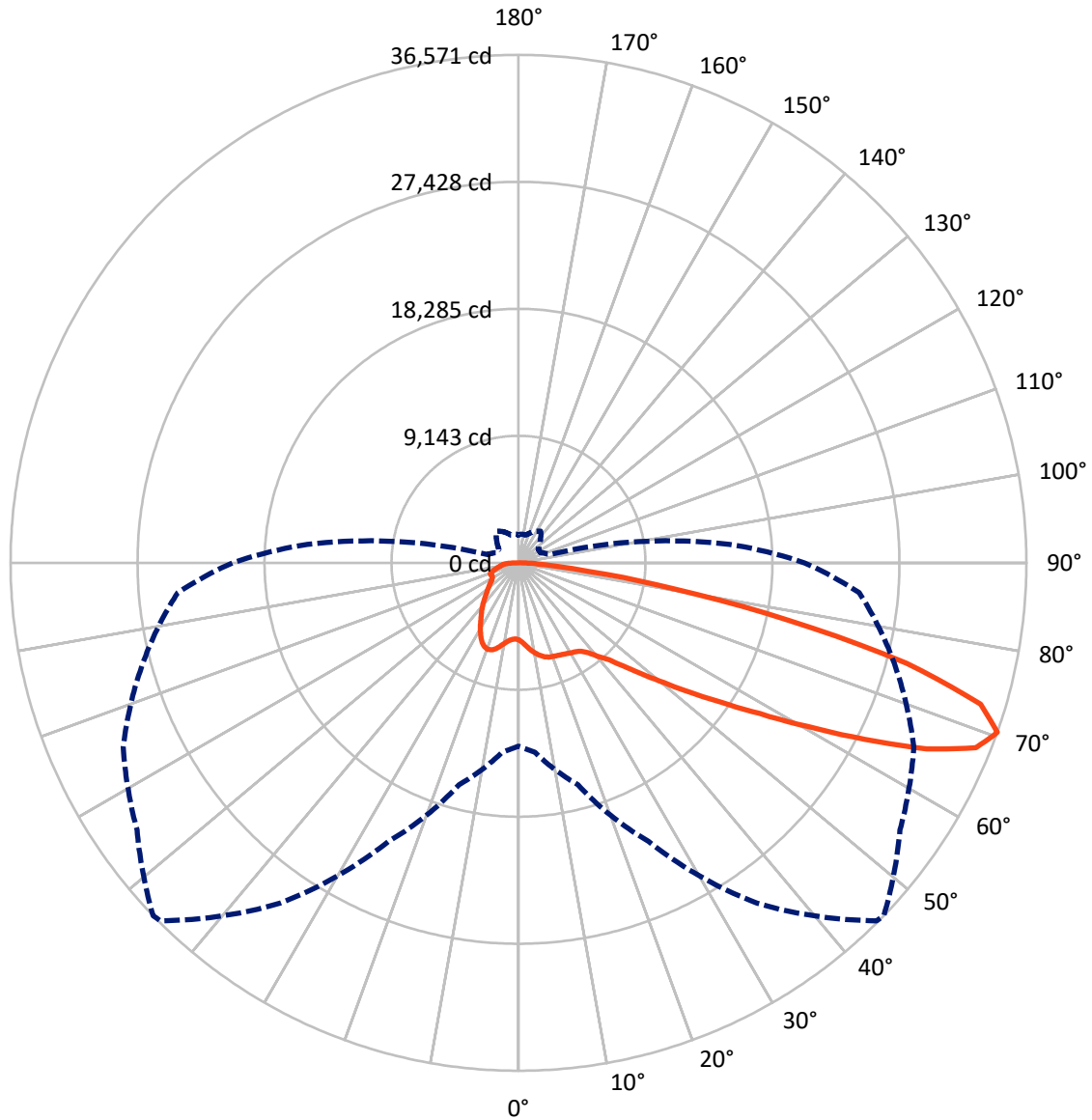
✕ Max cd
 - - - 1/2 Max cd



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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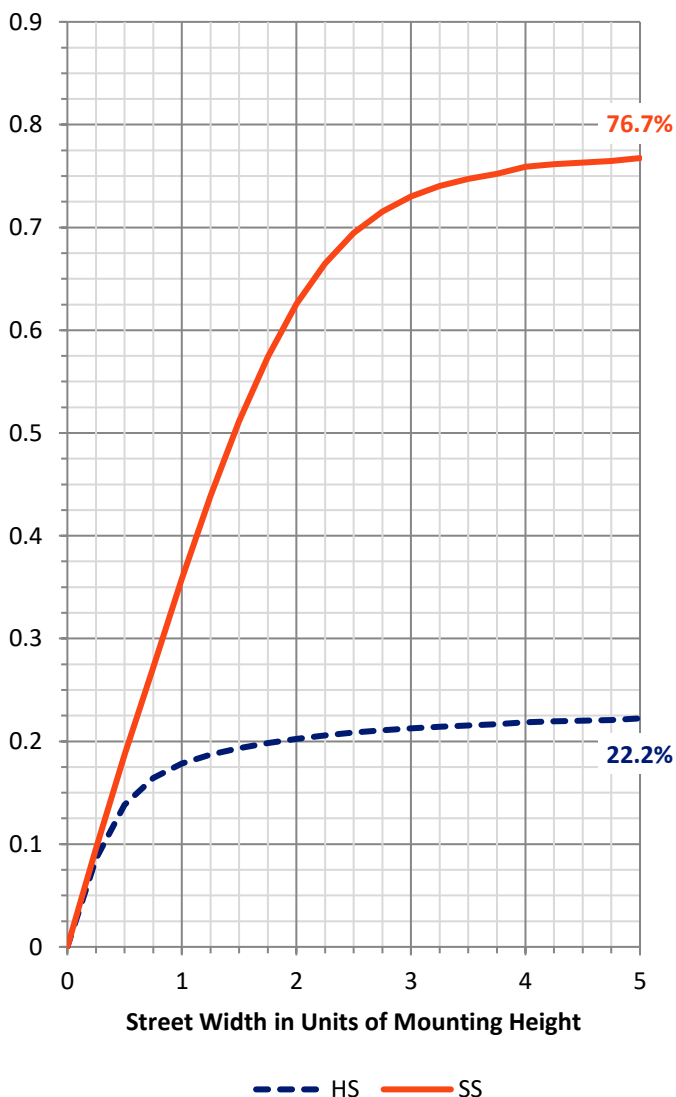
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12491.0	0.0	12491.0
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	42008.0	0.0	42008.0
	% Fixture	77.1	0.0	77.1
Total	Lumens	54499.0	0.0	54499.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	566.0	1.0
10°-20°	1885.8	3.5
20°-30°	3144.4	5.8
30°-40°	4462.1	8.2
40°-50°	6563.5	12.0
50°-60°	11115.2	20.4
60°-70°	15777.9	29.0
70°-80°	9585.2	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°	54499.0	100.0
0°-180°	54499.0	100.0

Coefficient of Utilization

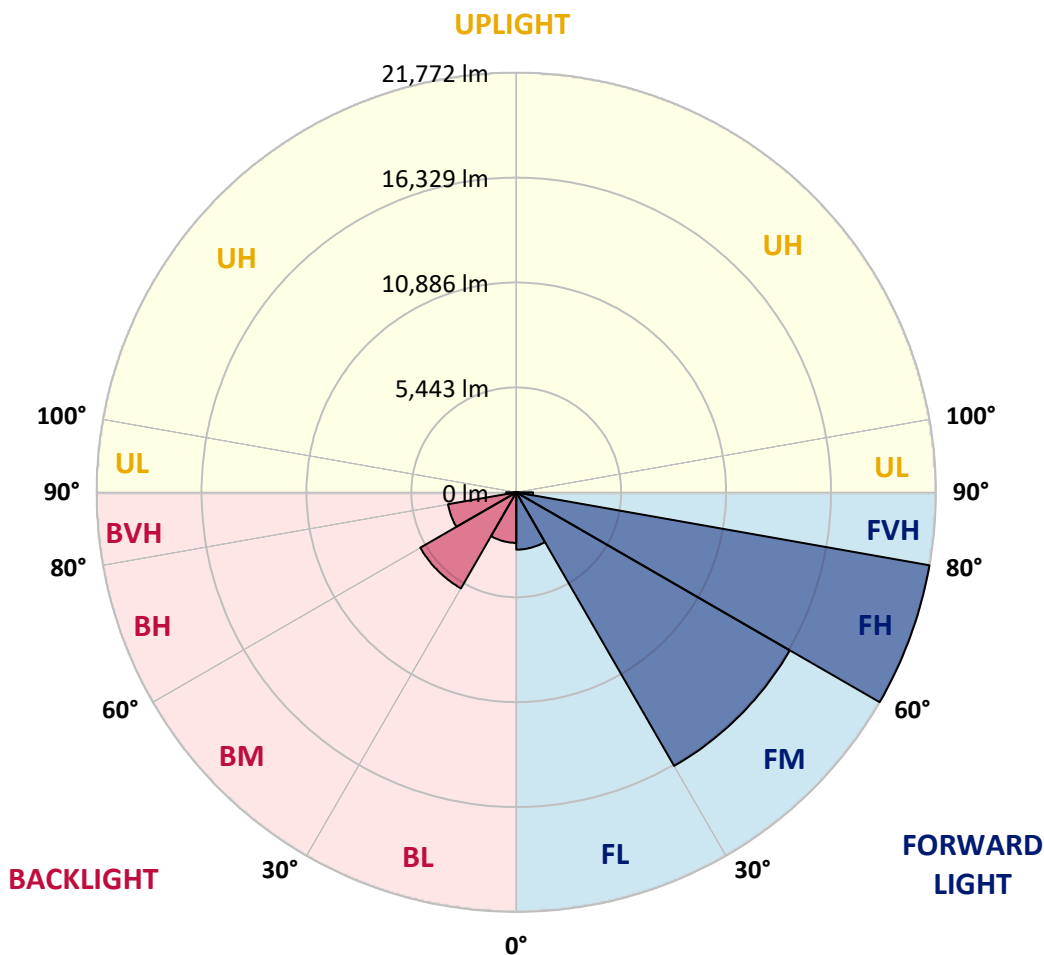


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2973.7	5.5			
FM (30°-60°)	16390.9	30.1			
FH (60°-80°)	21772.0	39.9			G5
FVH (80°-90°)	871.4	1.6			G5
BL (0°-30°)	2622.5	4.8	B4/5000		
BM (30°-60°)	5749.9	10.6	B4/8500		
BH (60°-80°)	3591.1	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°	5552.4	5552.4	5552.4	5552.4	5552.4	5552.4	5552.4	5552.4	5552.4	5552.4	5552.4
2.5°	5830.3	5834.0	5841.5	5822.8	5770.6	5755.7	5750.1	5696.0	5660.6	5608.3	5563.6
5°	6296.6	6300.3	6289.1	6236.9	6121.2	6035.4	6028.0	5904.9	5793.0	5673.6	5584.1
7.5°	6783.3	6788.9	6753.5	6654.7	6492.4	6343.2	6333.9	6166.0	5996.3	5815.4	5681.1
10°	7214.2	7191.8	7134.0	6996.0	6803.9	6621.1	6613.6	6438.3	6242.5	6024.2	5845.2
12.5°	7501.4	7482.8	7408.1	7240.3	7029.5	6861.7	6846.8	6684.5	6494.3	6255.5	6041.0
15°	7659.9	7673.0	7572.3	7382.0	7176.9	7035.1	7022.1	6906.4	6736.7	6496.1	6249.9
17.5°	7680.5	7691.6	7594.7	7406.3	7238.4	7141.4	7135.8	7059.4	6936.3	6705.0	6447.6
20°	7561.1	7568.5	7488.3	7333.5	7223.5	7193.7	7191.8	7158.2	7066.8	6861.7	6611.8
22.5°	7387.6	7393.2	7335.4	7223.5	7186.2	7232.8	7245.9	7232.8	7167.6	6975.4	6740.4
25°	7344.7	7341.0	7281.3	7167.6	7199.3	7298.1	7314.9	7320.5	7275.7	7107.9	6904.6
27.5°	7551.8	7538.7	7424.9	7242.2	7262.7	7382.0	7404.4	7458.5	7430.5	7283.2	7091.1
30°	8150.5	8128.1	7894.9	7525.6	7424.9	7486.5	7514.5	7600.3	7605.8	7482.8	7339.1
32.5°	9161.3	9133.4	8715.6	8055.3	7699.1	7592.8	7618.9	7747.6	7816.6	7721.5	7566.7
35°	10438.9	10407.2	9858.9	8956.2	8157.9	7796.1	7814.7	7917.3	8055.3	7921.0	7715.9
37.5°	11770.6	11694.1	11166.3	10015.5	8887.2	8230.7	8230.7	8243.7	8309.0	8029.2	7891.2
40°	13094.8	13018.3	12540.9	11261.4	9830.9	8915.1	8872.2	8583.2	8530.9	8290.3	8243.7
42.5°	14325.8	14303.4	14021.8	12669.6	10938.8	9588.4	9528.8	9038.2	9049.4	8900.2	8902.1
45°	15635.1	15635.1	15405.7	14090.8	12229.4	10670.2	10610.5	9888.7	10000.6	9931.6	10097.6
47.5°	16703.8	16737.3	16705.6	15571.7	13730.8	12044.8	11936.6	11067.5	11380.8	11617.7	12100.7
50°	17794.9	17847.1	17852.7	17196.2	15545.5	13678.6	13555.5	12632.3	13331.7	14010.6	14959.9
52.5°	19378.3	19495.8	19027.7	18816.9	17768.7	15618.3	15497.1	14644.7	15812.3	16765.3	18401.0
55°	20846.1	20743.6	20409.7	20540.3	20148.6	17826.6	17735.2	16987.3	18576.3	19814.7	21939.1
57.5°	21640.7	21633.2	21968.9	22528.5	22715.0	20549.6	20473.1	19745.7	21692.9	22623.6	25260.8
60°	22573.2	22586.3	23418.1	24688.2	25456.7	23940.3	23906.8	23354.7	24719.9	25245.9	27866.4
62.5°	22703.8	22938.8	24371.2	26557.1	28023.0	27901.8	27976.4	26605.5	27428.1	27338.5	29811.6
65°	21202.4	21512.0	24104.5	27122.2	30574.5	32234.4	32303.4	29875.1	29563.6	29127.2	30507.3
67.5°	18125.0	18583.8	21400.1	25893.1	31415.6	35436.8	35533.7	32409.7	31335.4	29733.3	28832.5
70°	13189.9	13699.1	16534.0	22114.4	29916.1	36460.7	36570.7	33530.6	31402.6	28008.1	24613.6
72.5°	7967.7	8366.8	10703.8	16280.4	25249.6	34595.6	34791.4	32109.4	28670.2	23724.0	18175.3
75°	3498.9	3760.0	5175.6	9381.4	18076.5	28623.6	28867.9	27484.0	23295.0	17240.9	10742.9
77.5°	1490.2	1564.8	2122.5	4075.2	10218.8	19559.2	19894.9	20081.5	15804.8	9381.4	4539.6
80°	928.8	958.7	1201.1	1844.6	4782.1	10985.4	11347.2	11815.4	7848.3	3448.6	1585.3
82.5°	565.1	598.7	798.3	1115.3	2489.9	4979.8	5153.3	5483.4	3045.7	1490.2	820.6
85°	339.4	363.7	488.7	705.0	1417.5	1958.3	1956.5	2163.5	1434.3	958.7	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°	5552.4	5552.4	5552.4	5552.4	5552.4	5552.4	5552.4	5552.4	5552.4	5552.4	5552.4
2.5°	5548.7	5541.2	5516.9	5498.3	5494.6	5483.4	5474.0	5479.6	5487.1	5489.0	5489.0
5°	5546.8	5526.3	5494.6	5481.5	5498.3	5520.7	5548.7	5586.0	5608.3	5625.1	5636.3
7.5°	5636.3	5597.1	5561.7	5554.2	5587.8	5647.5	5710.9	5789.2	5843.3	5880.6	5888.1
10°	5785.5	5737.0	5701.6	5709.0	5768.7	5854.5	5944.1	6044.8	6126.8	6177.2	6180.9
12.5°	5957.1	5910.5	5876.9	5908.6	6007.5	6111.9	6205.2	6292.8	6367.4	6417.8	6417.8
15°	6154.8	6121.2	6082.1	6154.8	6289.1	6382.3	6421.5	6464.4	6505.4	6542.7	6535.3
17.5°	6345.0	6313.3	6292.8	6378.6	6518.5	6561.4	6535.3	6503.6	6503.6	6524.1	6527.8
20°	6509.2	6481.2	6494.3	6578.2	6650.9	6606.2	6509.2	6408.5	6367.4	6378.6	6389.8
22.5°	6652.8	6639.7	6678.9	6718.1	6665.8	6509.2	6330.1	6194.0	6143.6	6139.9	6143.6
25°	6820.6	6818.8	6867.3	6796.4	6565.1	6276.0	6035.4	5903.0	5875.0	5897.4	5934.7
27.5°	7029.5	7050.1	7074.3	6815.0	6360.0	5923.5	5679.2	5587.8	5615.8	5669.9	5705.3
30°	7296.2	7352.2	7300.0	6768.4	6065.3	5520.7	5287.5	5261.4	5337.9	5414.4	5451.7
32.5°	7555.5	7643.2	7516.3	6647.2	5684.8	5093.6	4912.7	4905.2	4998.4	5073.1	5125.3
35°	7764.4	7937.8	7678.6	6406.6	5244.6	4700.0	4567.6	4517.3	4550.8	4638.5	4698.2
37.5°	8036.7	8325.8	7790.5	6039.2	4767.2	4375.5	4220.7	4105.1	4075.2	4110.7	4140.5
40°	8534.7	8917.0	7842.7	5526.3	4300.9	4051.0	3894.3	3724.6	3607.1	3521.3	3523.2
42.5°	9347.8	9687.3	7809.1	4903.3	3870.1	3733.9	3556.7	3360.9	3170.7	2976.7	2961.8
45°	10668.3	10832.5	7708.4	4243.1	3491.5	3401.9	3235.9	3040.1	2786.4	2566.4	2545.9
47.5°	12781.5	12417.8	7551.8	3666.8	3157.6	3120.3	2967.4	2741.7	2473.1	2295.9	2281.0
50°	15663.0	14706.3	7475.3	3208.0	2862.9	2874.1	2749.1	2510.4	2256.8	2126.2	2111.3
52.5°	19109.7	17371.5	7622.6	2853.6	2626.1	2665.2	2572.0	2348.2	2135.5	2033.0	2018.0
55°	22685.1	20131.8	7781.2	2596.2	2402.2	2478.7	2447.0	2262.4	2070.3	1975.1	1962.1
57.5°	25745.7	22192.7	7464.1	2387.3	2202.7	2322.0	2350.0	2208.3	2036.7	1950.9	1936.0
60°	27672.4	23022.7	6632.3	2191.5	2044.1	2197.1	2294.1	2193.3	2049.7	2042.3	2031.1
62.5°	28586.3	22950.0	5384.5	2036.7	1945.3	2143.0	2335.1	2277.3	2198.9	2266.1	2271.7
65°	28176.0	21853.3	4009.9	1934.1	1874.4	2163.5	2458.2	2435.8	2241.8	2309.0	2318.3
67.5°	25475.3	19236.6	2969.2	1844.6	1796.1	2221.3	2682.0	2488.0	2157.9	2206.4	2176.6
70°	20590.6	15250.9	2290.3	1743.9	1715.9	2213.9	2782.7	2456.3	2066.5	2077.7	1997.5
72.5°	14199.0	10399.8	1863.2	1650.6	1600.2	2018.0	2711.8	2378.0	1990.1	1904.3	1797.9
75°	7721.5	5582.2	1583.5	1553.6	1397.0	1771.8	2581.3	2322.0	1921.0	1807.3	1747.6
77.5°	3038.2	2316.4	1374.6	1421.2	1221.6	1564.8	2435.8	2215.7	1825.9	1676.7	1646.9
80°	1240.3	1182.5	1139.6	1229.1	1050.0	1369.0	2260.5	2090.8	1712.2	1555.5	1495.8
82.5°	703.1	734.8	885.9	969.8	852.3	1260.8	2176.6	1990.1	1576.0	1393.2	1322.4
85°	360.0	430.8	617.3	695.7	626.7	1072.4	2005.0	1742.0	1264.5	1066.8	1072.4
87.5°	173.5	240.6	389.8	436.4	406.6	775.9	1497.7	1262.7	984.8	779.6	755.4
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)