

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: P319074

Luminaire Tested: **GAN-SA0A-750-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319074
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-SA0A-750-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 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: 45804 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

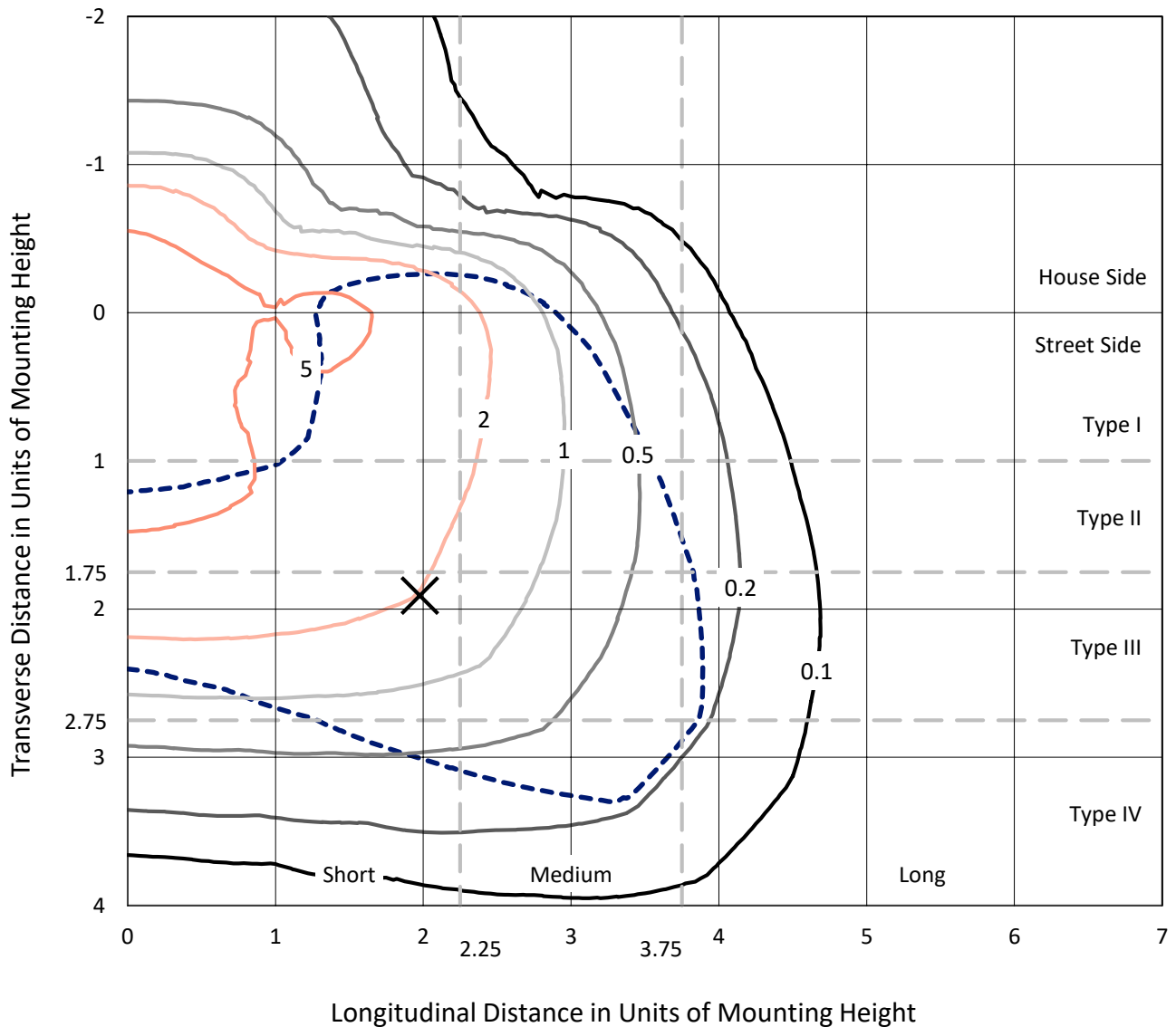
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

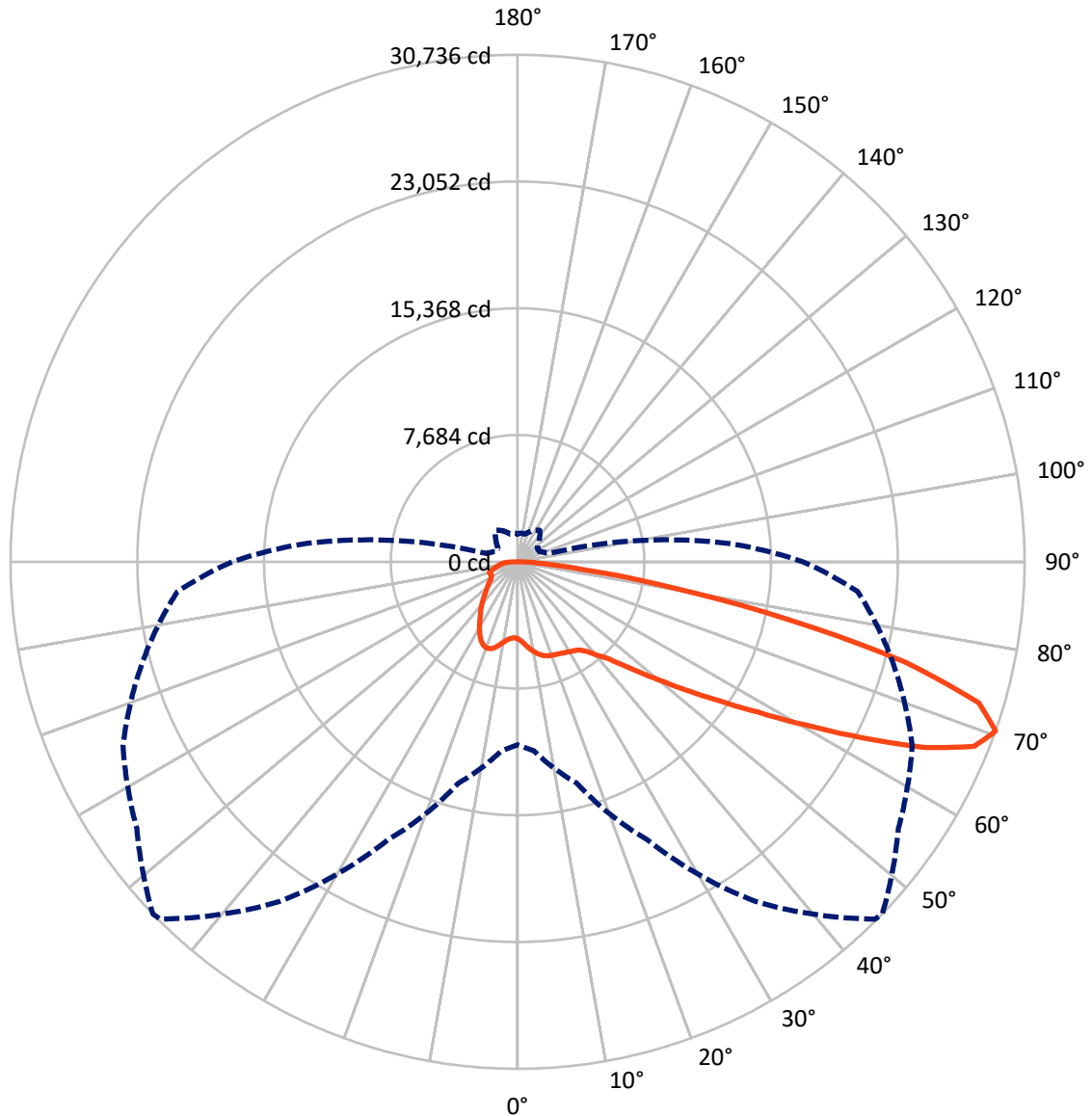
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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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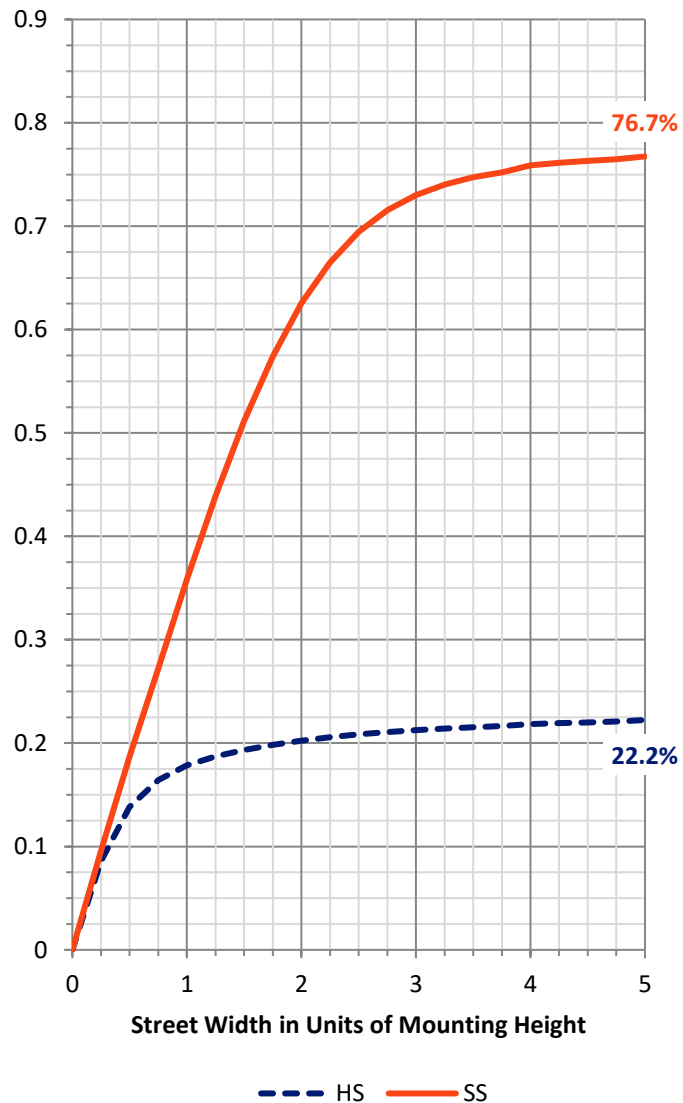
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10498.1	0.0	10498.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	35305.9	0.0	35305.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	45804.0	0.0	45804.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.7	1.0
10°-20°	1585.0	3.5
20°-30°	2642.7	5.8
30°-40°	3750.2	8.2
40°-50°	5516.3	12.0
50°-60°	9341.9	20.4
60°-70°	13260.6	29.0
70°-80°	8056.0	17.6
80°-90°	1175.7	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°	45804.0	100.0
0°-180°	45804.0	100.0

Coefficient of Utilization

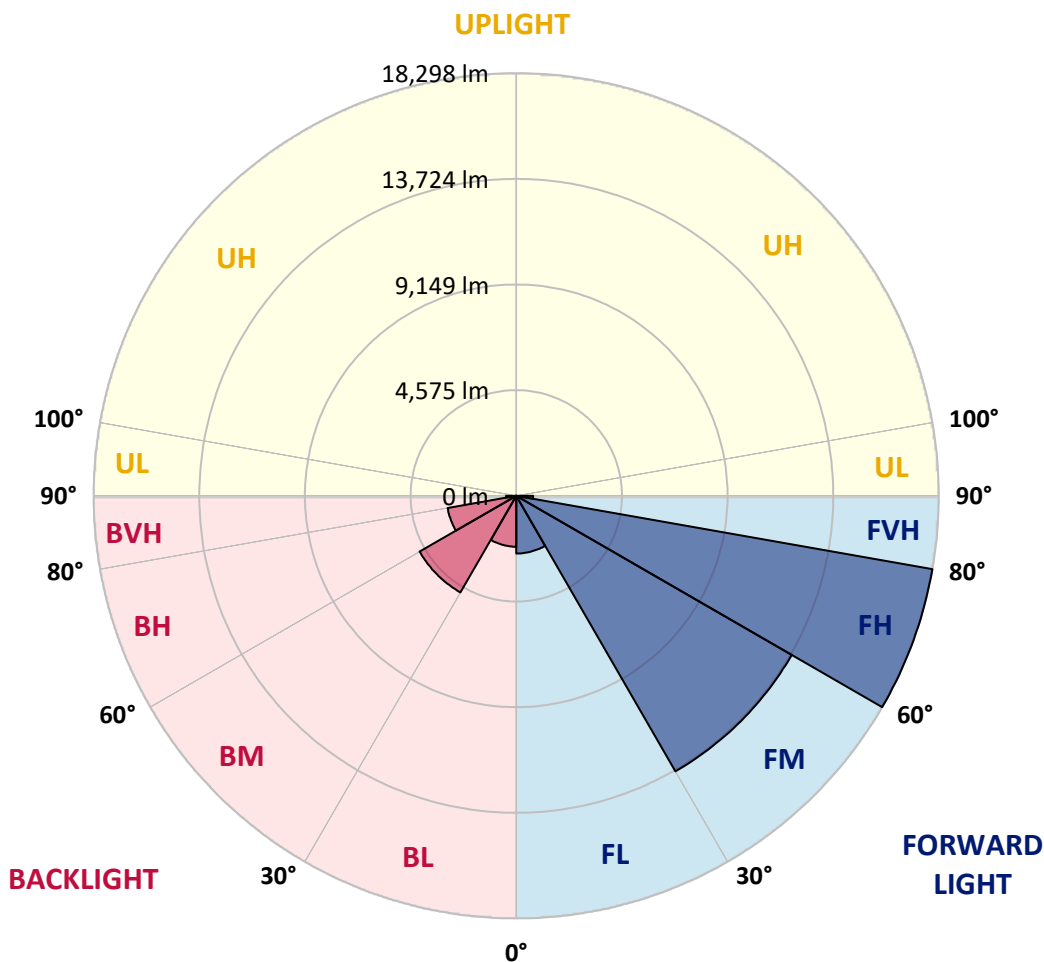


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2499.3	5.5			
FM (30°-60°)	13775.8	30.1			
FH (60°-80°)	18298.4	39.9			G5
FVH (80°-90°)	732.3	1.6			G4/750
BL (0°-30°)	2204.1	4.8	B3/2500		
BM (30°-60°)	4832.6	10.6	B3/5000		
BH (60°-80°)	3018.1	6.6	B4/5000		G4/5000
BVH (80°-90°)	443.3	1.0			G3/500
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°	4666.5	4666.5	4666.5	4666.5	4666.5	4666.5	4666.5	4666.5	4666.5	4666.5	4666.5
2.5°	4900.1	4903.2	4909.5	4893.8	4849.9	4837.4	4832.7	4787.2	4757.4	4713.6	4675.9
5°	5292.0	5295.1	5285.7	5241.8	5144.6	5072.5	5066.3	4962.8	4868.7	4768.4	4693.2
7.5°	5701.1	5705.8	5676.0	5592.9	5456.6	5331.2	5323.3	5182.2	5039.6	4887.6	4774.7
10°	6063.2	6044.4	5995.8	5879.8	5718.3	5564.7	5558.5	5411.1	5246.5	5063.1	4912.6
12.5°	6304.6	6288.9	6226.2	6085.1	5908.0	5766.9	5754.4	5618.0	5458.1	5257.5	5077.2
15°	6437.8	6448.8	6364.2	6204.3	6031.8	5912.7	5901.7	5804.6	5661.9	5459.7	5252.8
17.5°	6455.1	6464.5	6383.0	6224.7	6083.6	6002.1	5997.4	5933.1	5829.6	5635.3	5418.9
20°	6354.8	6361.0	6293.6	6163.5	6071.0	6046.0	6044.4	6016.2	5939.4	5766.9	5556.9
22.5°	6209.0	6213.7	6165.1	6071.0	6039.7	6078.9	6089.8	6078.9	6024.0	5862.6	5665.0
25°	6172.9	6169.8	6119.6	6024.0	6050.7	6133.7	6147.8	6152.5	6114.9	5973.8	5803.0
27.5°	6346.9	6335.9	6240.3	6086.7	6104.0	6204.3	6223.1	6268.5	6245.0	6121.2	5959.7
30°	6850.1	6831.3	6635.3	6325.0	6240.3	6292.1	6315.6	6387.7	6392.4	6288.9	6168.2
32.5°	7699.7	7676.2	7325.1	6770.2	6470.8	6381.4	6403.4	6511.5	6569.5	6489.6	6359.5
35°	8773.5	8746.8	8286.0	7527.3	6856.4	6552.3	6567.9	6654.2	6770.2	6657.3	6484.9
37.5°	9892.7	9828.4	9384.8	8417.6	7469.3	6917.5	6917.5	6928.5	6983.3	6748.2	6632.2
40°	11005.6	10941.3	10540.1	9464.7	8262.4	7492.8	7456.7	7213.8	7169.9	6967.7	6928.5
42.5°	12040.2	12021.4	11784.7	10648.2	9193.6	8058.7	8008.5	7596.2	7605.6	7480.2	7481.8
45°	13140.6	13140.6	12947.8	11842.7	10278.3	8967.8	8917.7	8311.0	8405.1	8347.1	8486.6
47.5°	14038.8	14067.0	14040.3	13087.3	11540.1	10123.1	10032.2	9301.7	9565.1	9764.1	10170.1
50°	14955.8	14999.7	15004.4	14452.6	13065.3	11496.3	11392.8	10616.9	11204.7	11775.3	12573.1
52.5°	16286.6	16385.4	15991.9	15814.8	14933.8	13126.5	13024.6	12308.2	13289.5	14090.5	15465.2
55°	17520.3	17434.0	17153.5	17263.2	16934.0	14982.4	14905.6	14277.0	15612.6	16653.4	18438.8
57.5°	18188.0	18181.8	18463.9	18934.2	19090.9	17271.0	17206.8	16595.4	18231.9	19014.1	21230.6
60°	18971.8	18982.8	19681.9	20749.4	21395.2	20120.8	20092.6	19628.6	20776.0	21218.1	23420.4
62.5°	19081.5	19279.0	20482.9	22320.0	23552.1	23450.2	23512.9	22360.8	23052.1	22976.8	25055.4
65°	17819.7	18079.9	20258.7	22795.0	25696.5	27091.6	27149.6	25108.7	24846.9	24480.1	25640.1
67.5°	15233.2	15618.8	17985.8	21762.0	26403.4	29783.0	29864.5	27238.9	26336.0	24989.5	24232.4
70°	11085.6	11513.5	13896.1	18586.2	25143.2	30643.6	30736.1	28181.0	26392.5	23539.6	20686.7
72.5°	6696.5	7031.9	8996.0	13683.0	21221.2	29076.1	29240.7	26986.6	24096.0	19939.0	15275.6
75°	2940.7	3160.1	4349.9	7884.7	15192.5	24056.9	24262.2	23099.1	19578.4	14490.2	9029.0
77.5°	1252.5	1315.2	1783.8	3425.0	8588.5	16438.7	16720.8	16877.6	13283.2	7884.7	3815.4
80°	780.6	805.7	1009.5	1550.3	4019.1	9232.7	9536.8	9930.3	6596.2	2898.4	1332.4
82.5°	475.0	503.2	670.9	937.4	2092.6	4185.3	4331.1	4608.5	2559.8	1252.5	689.7
85°	285.3	305.7	410.7	592.5	1191.3	1645.9	1644.3	1818.3	1205.4	805.7	363.7
87.5°	136.4	152.1	219.5	307.2	600.4	617.6	578.4	655.2	732.0	528.3	183.4
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°	4666.5	4666.5	4666.5	4666.5	4666.5	4666.5	4666.5	4666.5	4666.5	4666.5	4666.5
2.5°	4663.4	4657.1	4636.7	4621.1	4617.9	4608.5	4600.7	4605.4	4611.7	4613.2	4613.2
5°	4661.8	4644.6	4617.9	4607.0	4621.1	4639.9	4663.4	4694.7	4713.6	4727.7	4737.1
7.5°	4737.1	4704.2	4674.4	4668.1	4696.3	4746.5	4799.8	4865.6	4911.1	4942.4	4948.7
10°	4862.5	4821.7	4791.9	4798.2	4848.4	4920.5	4995.7	5080.4	5149.3	5191.7	5194.8
12.5°	5006.7	4967.5	4939.3	4965.9	5049.0	5136.8	5215.2	5288.8	5351.5	5393.9	5393.9
15°	5172.8	5144.6	5111.7	5172.8	5285.7	5364.1	5397.0	5433.1	5467.5	5498.9	5492.6
17.5°	5332.7	5306.1	5288.8	5360.9	5478.5	5514.6	5492.6	5466.0	5466.0	5483.2	5486.3
20°	5470.7	5447.2	5458.1	5528.7	5589.8	5552.2	5470.7	5386.0	5351.5	5360.9	5370.4
22.5°	5591.4	5580.4	5613.3	5646.2	5602.3	5470.7	5320.2	5205.8	5163.4	5160.3	5163.4
25°	5732.5	5730.9	5771.6	5712.1	5517.7	5274.7	5072.5	4961.2	4937.7	4956.5	4987.9
27.5°	5908.0	5925.3	5945.6	5727.7	5345.3	4978.5	4773.1	4696.3	4719.8	4765.3	4795.1
30°	6132.2	6179.2	6135.3	5688.6	5097.6	4639.9	4443.9	4422.0	4486.3	4550.5	4581.9
32.5°	6350.1	6423.7	6317.1	5586.7	4777.8	4280.9	4128.9	4122.6	4201.0	4263.7	4307.6
35°	6525.6	6671.4	6453.5	5384.5	4407.9	3950.2	3838.9	3796.6	3824.8	3898.4	3948.6
37.5°	6754.5	6997.4	6547.6	5075.7	4006.6	3677.4	3547.3	3450.1	3425.0	3454.8	3479.9
40°	7173.0	7494.4	6591.5	4644.6	3614.7	3404.7	3273.0	3130.4	3031.6	2959.5	2961.1
42.5°	7856.5	8141.7	6563.2	4121.0	3252.6	3138.2	2989.3	2824.7	2664.8	2501.8	2489.2
45°	8966.3	9104.2	6478.6	3566.1	2934.4	2859.2	2719.7	2555.1	2341.9	2156.9	2139.7
47.5°	10742.3	10436.6	6346.9	3081.8	2653.8	2622.5	2493.9	2304.3	2078.5	1929.6	1917.1
50°	13164.1	12360.0	6282.7	2696.1	2406.2	2415.6	2310.5	2109.9	1896.7	1787.0	1774.4
52.5°	16060.9	14600.0	6406.5	2398.3	2207.1	2240.0	2161.6	1973.5	1794.8	1708.6	1696.1
55°	19065.8	16919.9	6539.7	2182.0	2019.0	2083.2	2056.6	1901.4	1740.0	1660.0	1649.0
57.5°	21638.2	18652.0	6273.2	2006.4	1851.3	1951.6	1975.1	1856.0	1711.7	1639.6	1627.1
60°	23257.4	19349.6	5574.1	1841.8	1718.0	1846.5	1928.1	1843.4	1722.7	1716.4	1707.0
62.5°	24025.5	19288.4	4525.5	1711.7	1634.9	1801.1	1962.5	1914.0	1848.1	1904.5	1909.2
65°	23680.6	18366.7	3370.2	1625.5	1575.4	1818.3	2066.0	2047.2	1884.2	1940.6	1948.4
67.5°	21410.9	16167.5	2495.5	1550.3	1509.5	1866.9	2254.1	2091.1	1813.6	1854.4	1829.3
70°	17305.5	12817.7	1924.9	1465.6	1442.1	1860.7	2338.8	2064.4	1736.8	1746.2	1678.8
72.5°	11933.6	8740.5	1566.0	1387.3	1344.9	1696.1	2279.2	1998.6	1672.6	1600.4	1511.1
75°	6489.6	4691.6	1330.8	1305.8	1174.1	1489.2	2169.5	1951.6	1614.6	1518.9	1468.8
77.5°	2553.5	1946.9	1155.3	1194.5	1026.7	1315.2	2047.2	1862.2	1534.6	1409.2	1384.1
80°	1042.4	993.8	957.8	1033.0	882.5	1150.6	1899.8	1757.2	1439.0	1307.3	1257.2
82.5°	591.0	617.6	744.6	815.1	716.4	1059.6	1829.3	1672.6	1324.6	1170.9	1111.4
85°	302.5	362.1	518.9	584.7	526.7	901.3	1685.1	1464.1	1062.8	896.6	901.3
87.5°	145.8	202.2	327.6	366.8	341.7	652.1	1258.7	1061.2	827.7	655.2	634.8
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)