

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: P318761

Luminaire Tested: **GAN-SA7B-750-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318761
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7B-750-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40663 lumens
Efficiency: N/A
Efficacy: 137.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

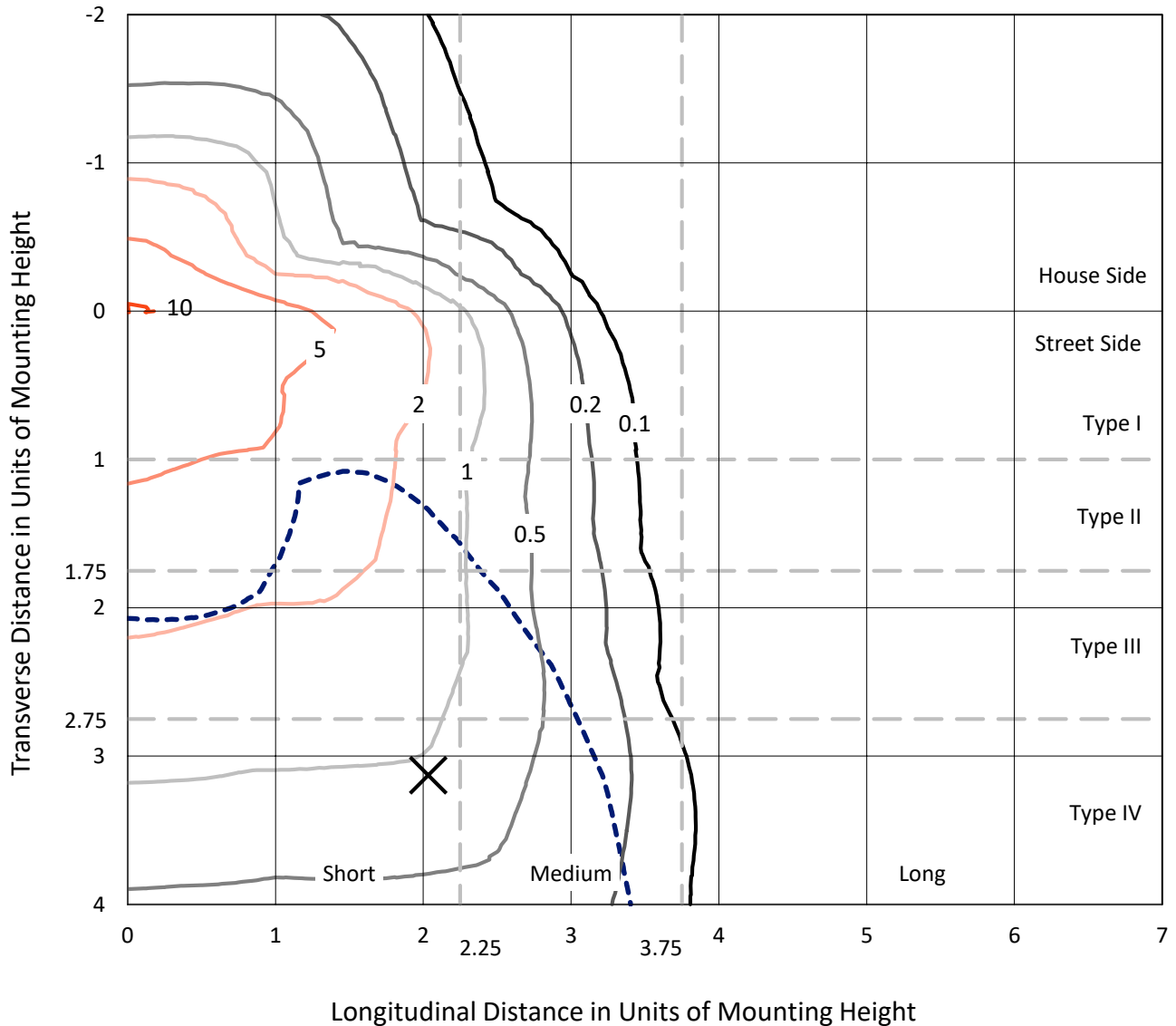
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

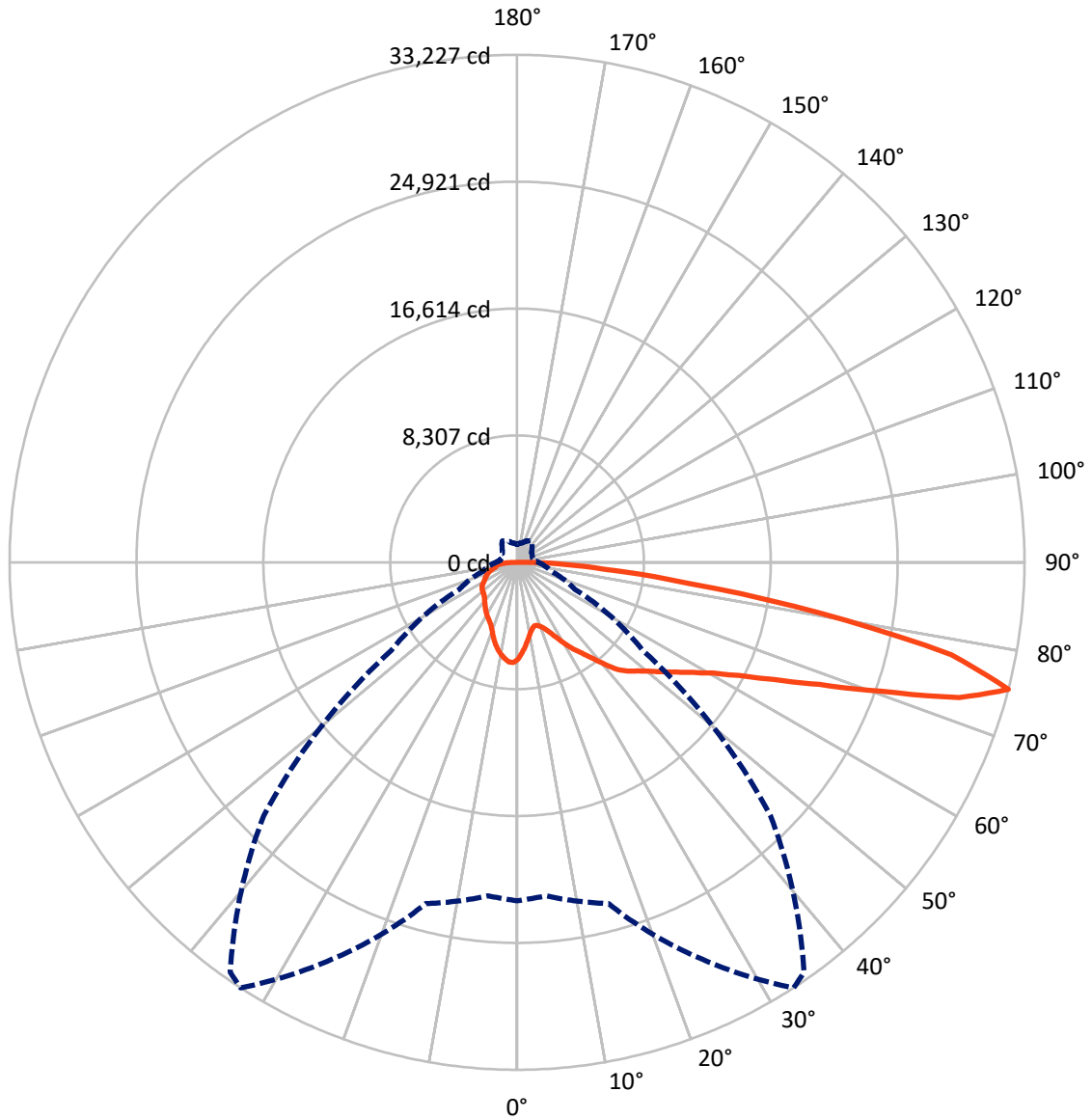
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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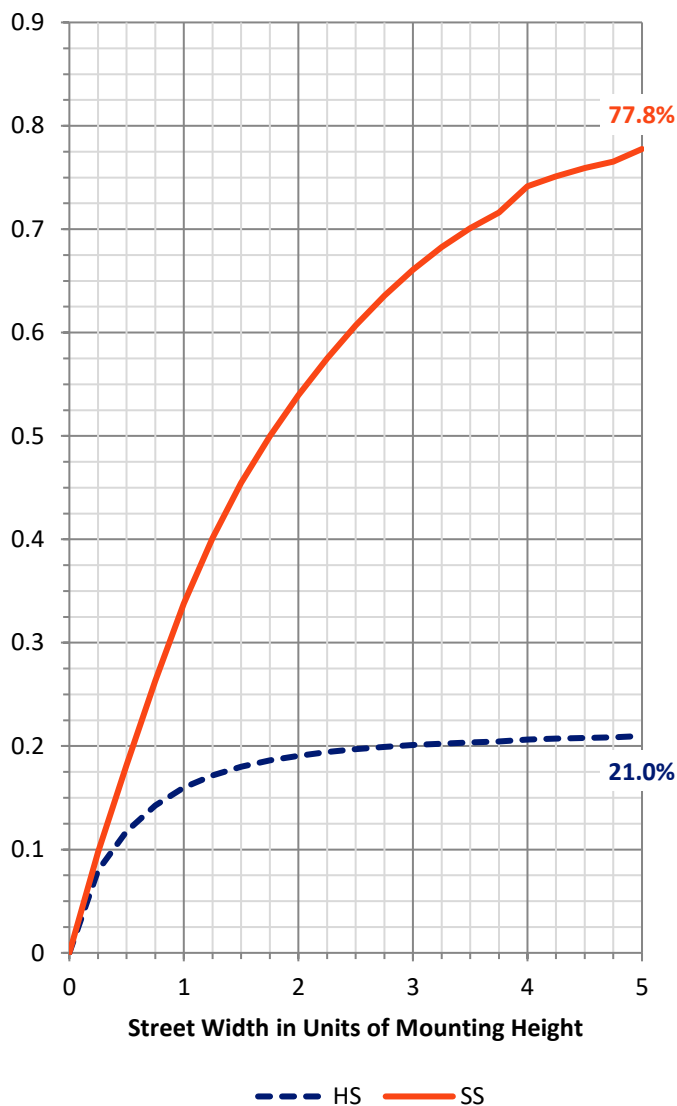
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8731.4	0.0	8731.4
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	31931.6	0.0	31931.6
	% Fixture	78.5	0.0	78.5
Total	Lumens	40663.0	0.0	40663.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	574.8	1.4
10°-20°	1556.8	3.8
20°-30°	2542.5	6.3
30°-40°	3786.4	9.3
40°-50°	5430.7	13.4
50°-60°	7455.5	18.3
60°-70°	9334.0	23.0
70°-80°	8444.0	20.8
80°-90°	1538.1	3.8
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°	40663.0	100.0
0°-180°	40663.0	100.0

Coefficient of Utilization



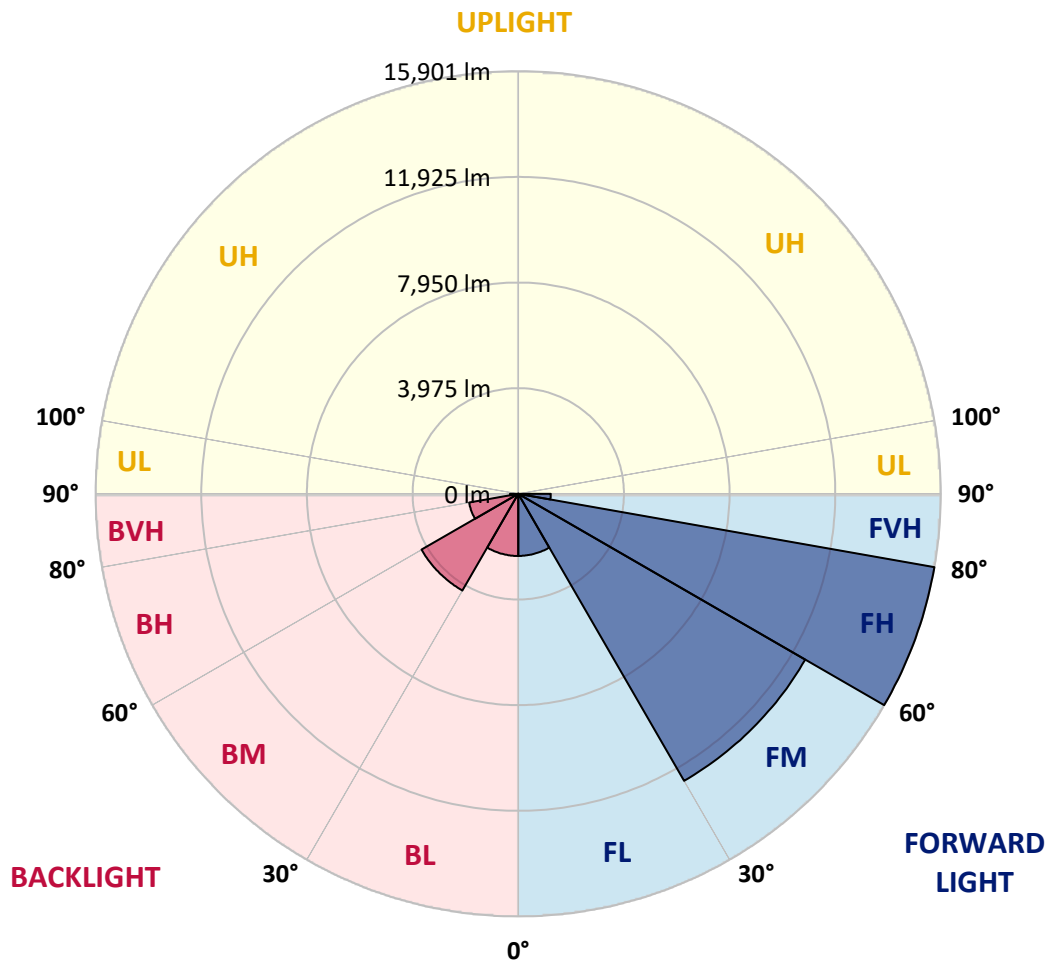
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2335.5	5.7			
FM (30°-60°)	12470.5	30.7			
FH (60°-80°)	15900.6	39.1			G5
FVH (80°-90°)	1225.0	3.0			G5
BL (0°-30°)	2338.7	5.8	B3/2500		
BM (30°-60°)	4202.2	10.3	B3/5000		
BH (60°-80°)	1877.4	4.6	B3/2500		G3/2500
BVH (80°-90°)	313.1	0.8			G3/500
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	6355.9	6355.9	6355.9	6355.9	6355.9	6355.9	6355.9	6355.9	6355.9	6355.9	6355.9
2.5°	5902.2	5879.7	5921.8	5927.4	5964.0	5978.0	6028.6	6107.2	6171.9	6246.3	6313.7
5°	5367.0	5351.6	5410.6	5452.7	5532.8	5566.5	5685.9	5853.0	6001.9	6170.4	6323.5
7.5°	4858.5	4850.1	4916.1	5011.6	5104.3	5150.7	5357.2	5600.2	5848.8	6121.3	6355.9
10°	4430.1	4427.3	4490.5	4584.6	4720.9	4772.9	5039.7	5360.0	5708.3	6083.4	6410.6
12.5°	4189.9	4199.8	4229.3	4307.9	4434.4	4486.3	4782.7	5159.1	5590.3	6070.7	6490.7
15°	4248.9	4264.4	4213.8	4211.0	4300.9	4341.6	4619.8	5015.9	5506.1	6091.8	6607.3
17.5°	4500.4	4503.2	4369.7	4285.5	4340.2	4361.3	4569.2	4934.4	5456.9	6139.5	6753.4
20°	4854.3	4847.3	4611.3	4470.9	4500.4	4506.0	4640.8	4935.8	5452.7	6222.4	6943.0
22.5°	5323.5	5271.5	4954.1	4763.0	4756.0	4747.6	4824.8	5039.7	5514.5	6357.3	7169.1
25°	5935.9	5886.7	5449.9	5188.6	5132.4	5111.4	5122.6	5261.7	5636.7	6501.9	7422.0
27.5°	6617.1	6531.4	6110.0	5740.6	5624.1	5594.6	5527.1	5574.9	5770.1	6641.0	7722.5
30°	7187.4	7141.0	6773.0	6334.8	6197.1	6155.0	5978.0	5926.0	5962.6	6830.6	8101.8
32.5°	7506.2	7475.3	7252.0	6898.0	6770.2	6711.2	6461.2	6357.3	6271.6	7129.8	8615.9
35°	7892.5	7872.8	7738.0	7480.9	7291.3	7229.5	7035.7	6927.5	6707.0	7541.3	9280.3
37.5°	8384.1	8363.0	8365.9	8158.0	7931.8	7874.2	7746.4	7632.6	7271.7	8082.1	10002.2
40°	8940.3	8899.6	8884.2	8874.3	8731.0	8698.7	8631.3	8476.8	7979.6	8728.2	10714.4
42.5°	9777.5	9632.8	9323.8	9440.4	9582.2	9565.4	9620.2	9398.2	8766.2	9492.3	11409.6
45°	10585.1	10347.8	9814.0	9839.3	10149.7	10243.8	10654.0	10496.6	9618.8	10329.5	12128.8
47.5°	10953.1	10773.3	10319.7	10321.1	10628.7	10823.9	11722.9	11610.5	10514.9	11280.4	13006.7
50°	11364.7	11184.9	10777.6	10930.7	11198.9	11406.8	12755.3	12697.7	11367.5	12321.2	14058.7
52.5°	11814.2	11509.4	11250.9	11524.8	11901.3	12142.8	13789.0	13631.7	12149.9	13369.1	15268.1
55°	11819.8	11736.9	11933.6	12134.4	12697.7	12994.0	14872.0	14456.2	12787.6	14398.6	16252.7
57.5°	12492.6	12357.7	12774.9	12867.6	13603.6	13937.9	15949.3	15174.0	13436.5	15188.0	16783.7
60°	13383.1	13267.9	13609.3	13853.7	14724.5	15171.2	17099.7	15911.4	13946.4	15783.6	16758.4
62.5°	14921.2	14790.5	14786.3	15129.0	16301.9	16821.6	18390.5	16634.8	14148.6	15901.6	16043.4
65°	17172.7	16964.9	16573.0	16735.9	18480.4	18998.7	19833.1	17158.7	13881.7	15269.5	14202.0
67.5°	19363.9	19356.9	18875.1	19209.4	21357.1	21772.8	21476.5	17210.7	13048.8	13068.5	10934.9
70°	21548.1	21576.2	21494.7	22657.7	25243.6	25676.2	23226.6	16512.6	11176.5	9437.6	6551.1
72.5°	23278.6	23271.6	23681.7	26680.5	30287.6	30190.7	24701.5	14397.2	8024.5	5094.5	3130.9
75°	22157.7	21913.3	23135.3	28672.3	33227.4	32754.1	23447.1	10043.0	4164.7	2319.0	1685.5
77.5°	14452.0	14683.8	16477.5	23685.9	29064.2	28488.3	17202.2	4685.8	1962.2	1521.2	1222.0
80°	5233.6	5478.0	7715.5	13416.8	20024.1	19930.0	8471.2	1925.7	1327.4	1149.0	890.5
82.5°	1800.7	1890.6	3043.8	5958.4	11305.7	11727.1	3187.1	1094.2	965.0	814.7	609.6
85°	706.5	809.1	1392.0	2866.8	5702.7	5744.9	1290.8	654.5	671.4	533.8	334.3
87.5°	268.3	325.9	665.8	1331.6	2604.1	2392.0	462.1	311.8	382.1	317.4	158.7
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°	6355.9	6355.9	6355.9	6355.9	6355.9	6355.9	6355.9	6355.9	6355.9	6355.9	6355.9
2.5°	6365.7	6395.2	6457.0	6499.1	6544.1	6556.7	6562.3	6573.6	6584.8	6580.6	6582.0
5°	6405.0	6462.6	6562.3	6604.5	6624.1	6601.7	6558.1	6523.0	6497.7	6483.7	6479.5
7.5°	6469.6	6551.1	6657.8	6650.8	6605.9	6506.1	6393.8	6309.5	6239.3	6214.0	6199.9
10°	6555.3	6650.8	6725.3	6645.2	6514.6	6341.8	6173.3	6042.6	5937.3	5896.5	5889.5
12.5°	6664.9	6761.8	6775.8	6605.9	6389.6	6153.6	5924.6	5751.9	5594.6	5544.0	5532.8
15°	6806.7	6898.0	6810.9	6537.0	6235.1	5917.6	5621.2	5386.7	5220.9	5159.1	5136.7
17.5°	6955.6	7042.7	6818.0	6423.3	6032.8	5638.1	5265.9	5025.7	4836.1	4764.4	4756.0
20°	7134.0	7173.3	6788.5	6260.3	5754.7	5275.7	4883.8	4657.7	4556.6	4506.0	4500.4
22.5°	7354.5	7312.4	6721.1	6039.8	5402.1	4857.1	4538.3	4432.9	4407.7	4396.4	4400.6
25°	7587.7	7458.5	6621.3	5751.9	4956.9	4438.6	4285.5	4315.0	4348.7	4344.5	4344.5
27.5°	7844.7	7607.4	6468.2	5369.8	4463.8	4095.8	4114.1	4222.3	4272.8	4271.4	4270.0
30°	8174.8	7775.9	6273.0	4910.5	4003.1	3854.2	3965.2	4097.2	4166.1	4163.3	4164.7
32.5°	8580.8	7961.3	6007.5	4397.8	3670.2	3675.9	3803.7	3934.3	4014.4	4007.3	4008.8
35°	9055.5	8169.2	5647.9	3892.2	3449.7	3534.0	3635.1	3726.4	3802.3	3792.4	3782.6
37.5°	9572.4	8372.9	5170.4	3439.9	3269.9	3402.0	3486.2	3501.7	3536.8	3511.5	3493.3
40°	10064.0	8528.8	4555.1	3069.1	3088.7	3289.6	3344.4	3282.6	3219.4	3210.9	3185.7
42.5°	10492.4	8580.8	3932.9	2772.7	2897.7	3171.6	3205.3	3076.1	2962.3	2908.9	2886.5
45°	10944.7	8599.0	3352.8	2524.1	2713.7	3066.3	3102.8	2930.0	2769.9	2654.7	2616.8
47.5°	11536.1	8731.0	2901.9	2340.1	2573.2	2996.0	3048.0	2813.4	2605.5	2441.2	2406.1
50°	12310.0	8992.3	2535.3	2199.6	2481.9	2949.7	3008.7	2699.7	2470.7	2272.7	2237.5
52.5°	13169.6	9232.5	2238.9	2085.8	2393.5	2868.2	2958.1	2618.2	2344.3	2116.7	2078.8
55°	13770.8	9048.5	2000.2	1967.9	2278.3	2751.6	2887.9	2549.4	2163.1	1965.0	1931.3
57.5°	13886.0	8419.2	1819.0	1845.7	2139.2	2605.5	2779.7	2396.3	2064.8	1899.0	1863.9
60°	13571.3	7542.7	1684.1	1733.3	1990.3	2421.5	2577.5	2288.1	1970.7	1828.8	1799.3
62.5°	12780.5	6645.2	1584.4	1632.2	1851.3	2234.7	2451.0	2174.3	1875.2	1748.7	1719.2
65°	11183.5	5579.1	1488.9	1542.3	1722.1	2073.2	2337.3	2069.0	1781.0	1684.1	1656.0
67.5°	8441.7	4178.7	1399.0	1446.7	1606.9	1932.7	2213.7	1965.0	1689.7	1627.9	1594.2
70°	4970.9	2616.8	1296.5	1347.0	1486.1	1786.7	2081.6	1851.3	1576.0	1547.9	1504.3
72.5°	2313.4	1574.6	1179.9	1229.0	1334.4	1591.4	1911.7	1702.4	1441.1	1379.3	1320.3
75°	1380.7	1151.8	1042.2	1085.8	1160.2	1383.5	1698.2	1550.7	1313.3	1231.8	1170.0
77.5°	1032.4	880.7	890.5	936.9	997.3	1210.8	1504.3	1431.3	1215.0	1151.8	1109.6
80°	743.0	668.6	726.2	776.7	840.0	1101.2	1441.1	1323.1	1098.4	1014.1	974.8
82.5°	495.8	480.4	546.4	598.4	660.2	963.6	1354.0	1158.8	938.3	831.5	744.4
85°	273.9	289.3	368.0	390.5	443.9	678.4	1109.6	931.3	706.5	568.9	543.6
87.5°	113.8	133.4	198.0	191.0	236.0	404.5	730.4	561.8	449.5	335.7	261.3
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)