

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: P382623

Luminaire Tested: **GAN-SA0A-735-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382623
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-SA0A-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 615mA 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: 43227.5 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

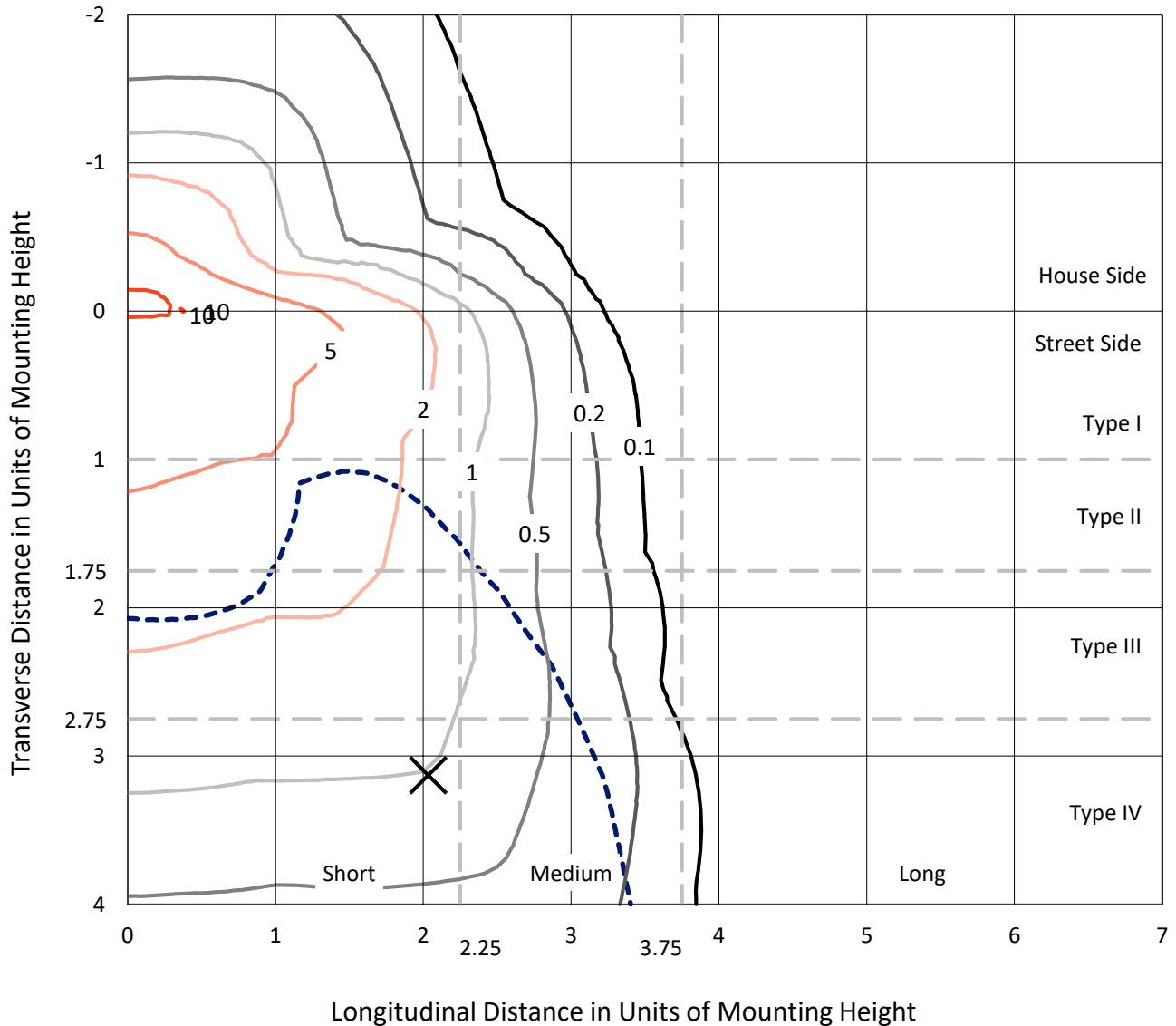
Input Watts (W): 323
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P382623
 CATALOG NUMBER: GAN-SA0A-735-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

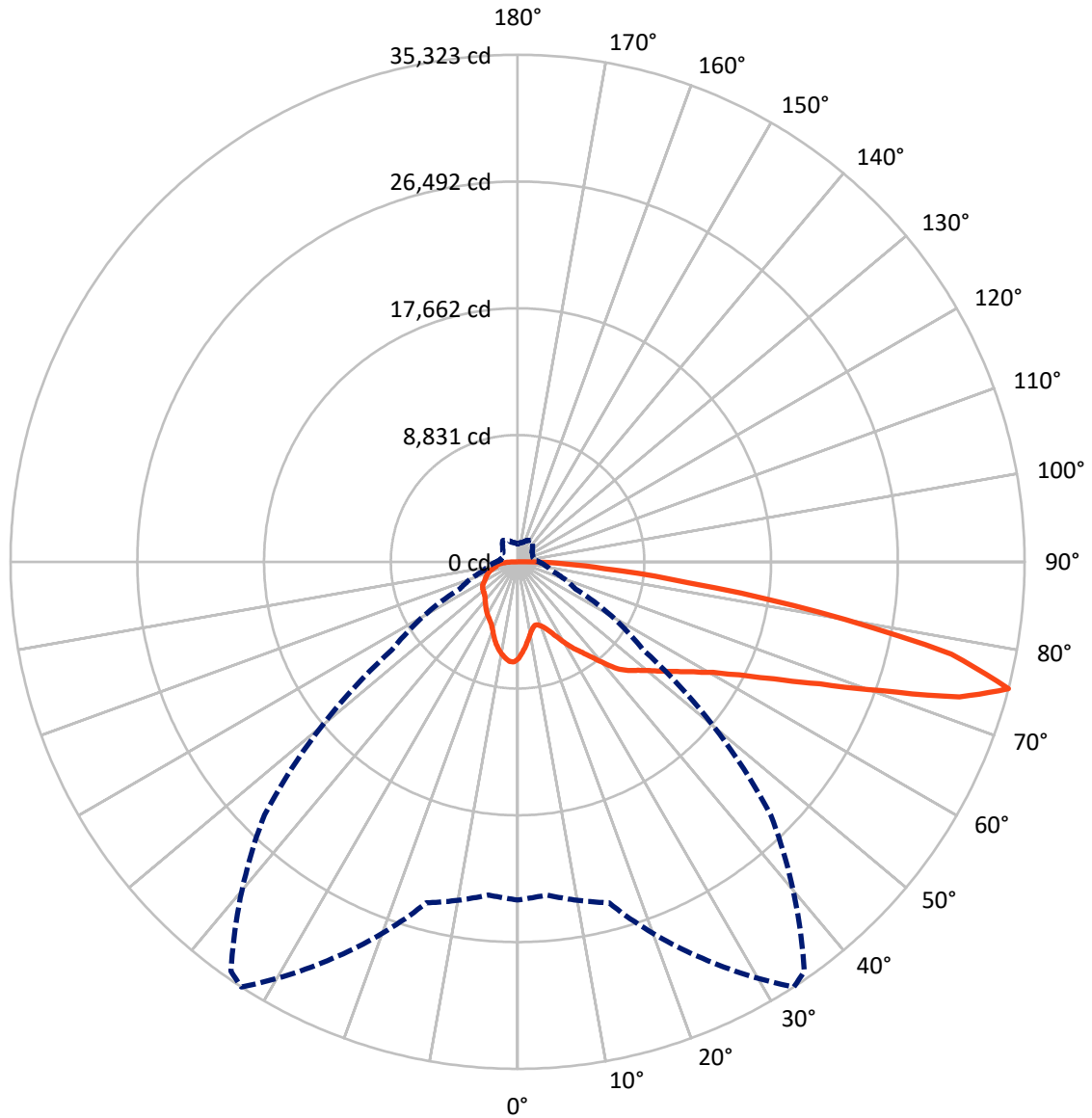
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P382623
CATALOG NUMBER: GAN-SA0A-735-U-T4FT

Luminous Intensity Polar Plot



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

REPORT NUMBER: P382623
 CATALOG NUMBER: GAN-SA0A-735-U-T4FT

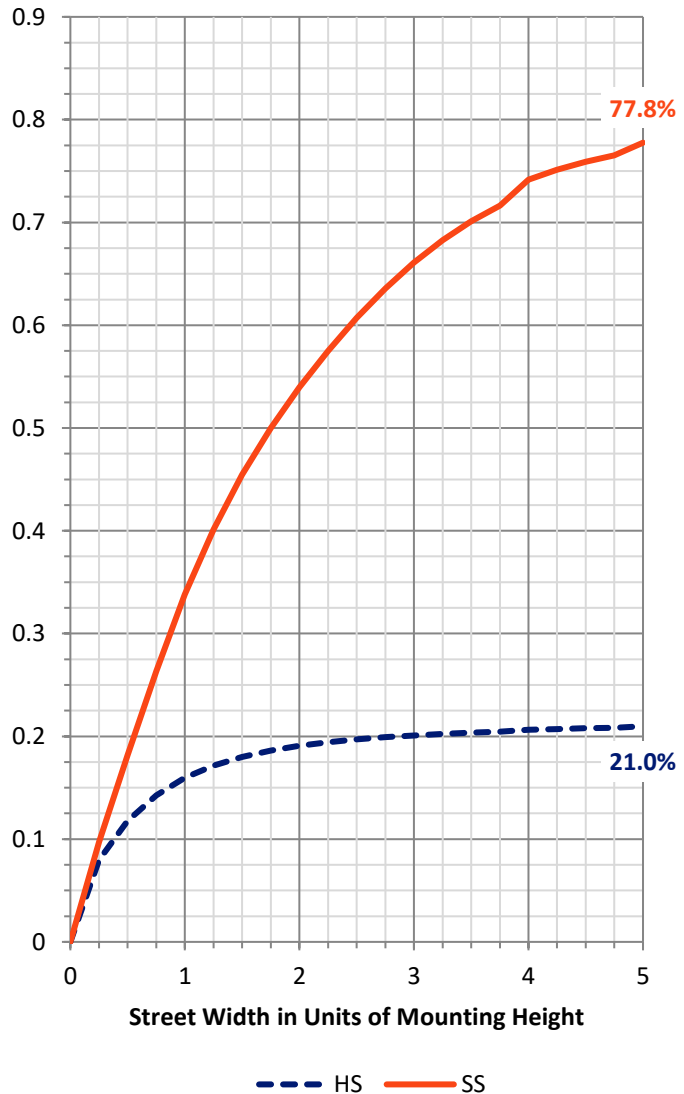
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9282.1	0.0	9282.1
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	33945.4	0.0	33945.4
	% Fixture	78.5	0.0	78.5
Total	Lumens	43227.5	0.0	43227.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	611.1	1.4
10°-20°	1655.0	3.8
20°-30°	2702.9	6.3
30°-40°	4025.2	9.3
40°-50°	5773.2	13.4
50°-60°	7925.8	18.3
60°-70°	9922.7	23.0
70°-80°	8976.6	20.8
80°-90°	1635.1	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°	43227.5	100.0
0°-180°	43227.5	100.0

Coefficient of Utilization



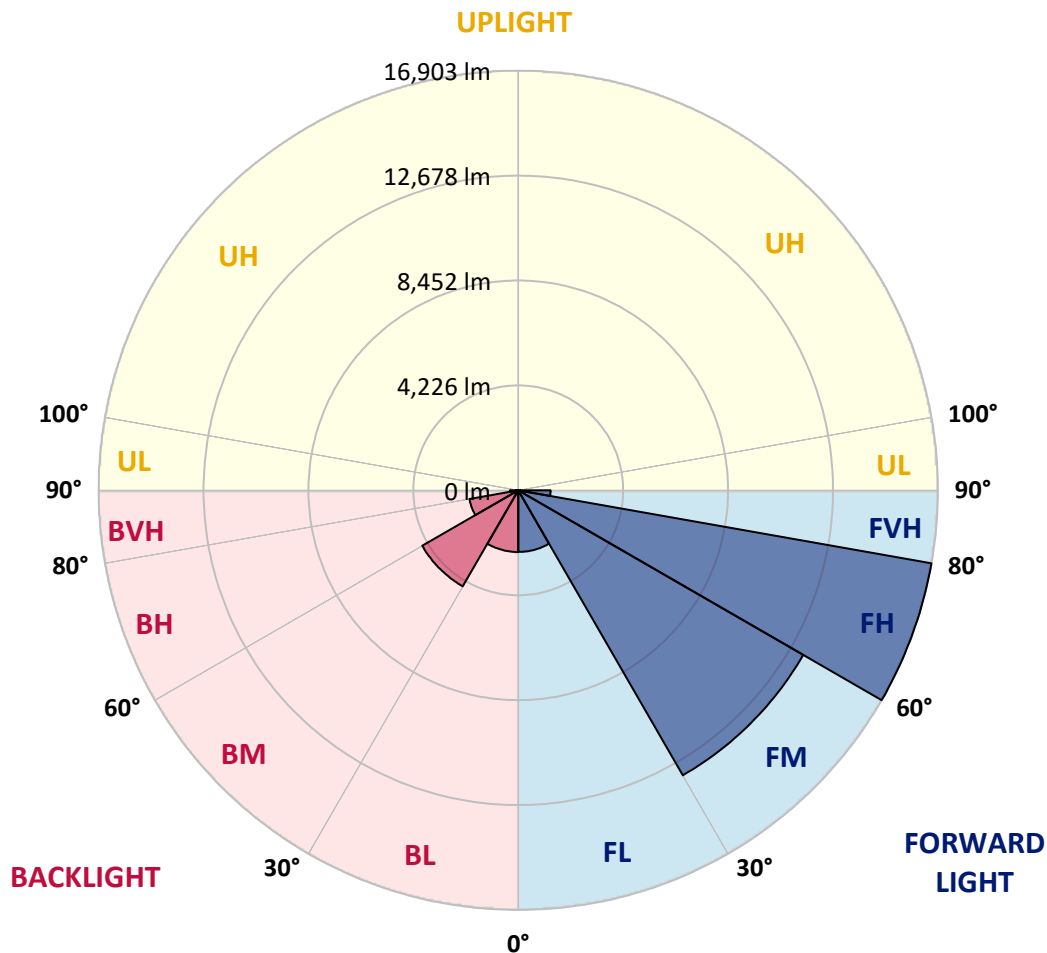
REPORT NUMBER: P382623
 CATALOG NUMBER: GAN-SA0A-735-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2482.8	5.7			
FM (30°-60°)	13257.0	30.7			
FH (60°-80°)	16903.5	39.1			G5
FVH (80°-90°)	1302.2	3.0			G5
BL (0°-30°)	2486.2	5.8	B3/2500		
BM (30°-60°)	4467.2	10.3	B3/5000		
BH (60°-80°)	1995.8	4.6	B3/2500		G3/2500
BVH (80°-90°)	332.9	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





REPORT NUMBER: P382623
 CATALOG NUMBER: GAN-SAOA-735-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	6756.7	6756.7	6756.7	6756.7	6756.7	6756.7	6756.7	6756.7	6756.7	6756.7	6756.7
2.5°	6274.4	6250.5	6295.3	6301.3	6340.1	6355.0	6408.8	6492.4	6561.1	6640.3	6711.9
5°	5705.5	5689.1	5751.7	5796.6	5881.7	5917.6	6044.4	6222.2	6380.4	6559.6	6722.3
7.5°	5165.0	5156.0	5226.2	5327.7	5426.3	5475.5	5695.0	5953.3	6217.7	6507.3	6756.7
10°	4709.5	4706.6	4773.7	4873.8	5018.6	5073.9	5357.6	5698.0	6068.4	6467.0	6814.9
12.5°	4454.2	4464.6	4496.0	4579.7	4714.0	4769.2	5084.3	5484.5	5942.9	6453.6	6900.1
15°	4516.9	4533.4	4479.6	4476.6	4572.1	4615.4	4911.1	5332.2	5853.3	6476.0	7024.0
17.5°	4784.2	4787.2	4645.3	4555.7	4614.0	4636.4	4857.4	5245.6	5801.0	6526.8	7179.3
20°	5160.5	5153.0	4902.2	4752.8	4784.2	4790.2	4933.5	5247.1	5796.6	6614.8	7380.8
22.5°	5659.2	5604.0	5266.5	5063.4	5056.0	5047.0	5129.1	5357.6	5862.3	6758.2	7621.3
25°	6310.2	6258.0	5793.6	5515.9	5456.2	5433.7	5445.6	5593.5	5992.2	6912.0	7890.0
27.5°	7034.4	6943.4	6495.4	6102.7	5978.8	5947.4	5875.7	5926.5	6134.1	7059.8	8209.5
30°	7640.6	7591.4	7200.2	6734.3	6588.0	6543.2	6355.0	6299.8	6338.6	7261.4	8612.7
32.5°	7979.6	7946.8	7709.4	7333.0	7197.2	7134.4	6868.7	6758.2	6667.1	7579.4	9159.3
35°	8390.3	8369.4	8226.0	7952.7	7751.1	7685.5	7479.4	7364.4	7130.0	8017.0	9865.6
37.5°	8912.9	8890.5	8893.5	8672.4	8432.1	8370.9	8235.0	8114.1	7730.3	8591.8	10633.1
40°	9504.2	9460.9	9444.5	9434.0	9281.7	9247.4	9175.7	9011.4	8482.9	9278.7	11390.1
42.5°	10394.1	10240.3	9911.9	10035.7	10186.6	10168.7	10226.9	9990.9	9319.0	10091.0	12129.2
45°	11252.7	11000.4	10433.0	10459.8	10789.8	10889.9	11325.8	11158.6	10225.4	10981.0	12893.7
47.5°	11644.0	11452.8	10970.5	10972.0	11299.0	11506.6	12462.2	12342.7	11178.0	11991.8	13827.0
50°	12081.4	11890.3	11457.3	11620.0	11905.3	12126.2	13559.7	13498.5	12084.4	13098.3	14945.4
52.5°	12559.2	12235.2	11960.5	12251.6	12651.8	12908.6	14658.6	14491.4	12916.1	14212.2	16231.0
55°	12565.3	12477.1	12686.2	12899.7	13498.5	13813.5	15809.9	15367.9	13594.1	15306.7	17277.8
57.5°	13280.5	13137.2	13580.6	13679.1	14461.6	14817.0	16955.2	16131.0	14283.9	16146.0	17842.2
60°	14227.2	14104.7	14467.6	14727.4	15653.2	16128.0	18178.1	16914.9	14826.0	16779.0	17815.3
62.5°	15862.2	15723.3	15718.8	16083.2	17330.0	17882.5	19550.4	17683.9	15041.0	16904.4	17055.2
65°	18255.8	18034.8	17618.2	17791.4	19646.0	20197.0	21083.9	18240.9	14757.2	16232.5	15097.7
67.5°	20585.2	20577.7	20065.5	20420.9	22704.1	23146.0	22830.9	18296.2	13871.8	13892.7	11624.5
70°	22907.1	22936.9	22850.4	24086.7	26835.7	27295.6	24691.5	17554.0	11881.3	10032.8	6964.2
72.5°	24746.7	24739.3	25175.3	28363.2	32197.7	32094.7	26259.3	15305.2	8530.6	5415.8	3328.3
75°	23555.1	23295.3	24594.4	30480.6	35323.0	34819.9	24925.9	10676.4	4427.4	2465.2	1791.8
77.5°	15363.5	15609.8	17516.6	25179.7	30897.2	30285.0	18287.1	4981.3	2086.0	1617.2	1299.0
80°	5563.7	5823.5	8202.1	14263.0	21287.0	21186.9	9005.5	2047.2	1411.1	1221.4	946.7
82.5°	1914.2	2009.8	3235.7	6334.2	12018.7	12466.7	3388.0	1163.2	1025.8	866.1	648.1
85°	751.1	860.1	1479.8	3047.7	6062.3	6107.1	1372.3	695.9	713.8	567.4	355.4
87.5°	285.2	346.4	707.8	1415.6	2768.4	2542.9	491.3	331.4	406.2	337.5	168.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P382623
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6756.7	6756.7	6756.7	6756.7	6756.7	6756.7	6756.7	6756.7	6756.7	6756.7	6756.7
2.5°	6767.1	6798.5	6864.2	6909.0	6956.8	6970.2	6976.2	6988.2	7000.1	6995.6	6997.1
5°	6809.0	6870.2	6976.2	7021.0	7041.9	7018.0	6971.7	6934.4	6907.5	6892.6	6888.1
7.5°	6877.6	6964.2	7077.7	7070.3	7022.5	6916.5	6797.0	6707.4	6632.8	6605.9	6591.0
10°	6968.7	7070.3	7149.4	7064.3	6925.4	6741.8	6562.6	6423.8	6311.7	6268.5	6260.9
12.5°	7085.2	7188.2	7203.2	7022.5	6792.6	6541.7	6298.3	6114.7	5947.4	5893.6	5881.7
15°	7236.0	7333.0	7240.5	6949.3	6628.3	6290.8	5975.8	5726.4	5550.2	5484.5	5460.6
17.5°	7394.3	7486.8	7248.0	6828.3	6413.2	5993.7	5597.9	5342.6	5141.0	5064.9	5056.0
20°	7583.9	7625.7	7216.6	6655.2	6117.7	5608.5	5191.8	4951.5	4844.0	4790.2	4784.2
22.5°	7818.4	7773.6	7145.0	6420.7	5742.8	5163.5	4824.5	4712.5	4685.7	4673.7	4678.1
25°	8066.3	7928.9	7039.0	6114.7	5269.5	4718.5	4555.7	4587.1	4622.9	4618.4	4618.4
27.5°	8339.5	8087.1	6876.1	5708.5	4745.4	4354.1	4373.5	4488.6	4542.3	4540.8	4539.3
30°	8690.4	8266.4	6668.6	5220.2	4255.6	4097.3	4215.3	4355.6	4428.9	4425.8	4427.4
32.5°	9121.9	8463.4	6386.4	4675.2	3901.7	3907.7	4043.6	4182.5	4267.5	4260.1	4261.6
35°	9626.6	8684.4	6004.1	4137.7	3667.3	3756.8	3864.4	3961.4	4042.1	4031.6	4021.2
37.5°	10176.1	8900.9	5496.4	3656.8	3476.2	3616.5	3706.1	3722.6	3759.8	3733.0	3713.6
40°	10698.7	9066.7	4842.5	3262.7	3283.5	3497.0	3555.3	3489.6	3422.4	3413.5	3386.5
42.5°	11154.2	9121.9	4181.0	2947.6	3080.4	3371.6	3407.5	3270.1	3149.2	3092.4	3068.5
45°	11634.9	9141.4	3564.3	2683.2	2884.8	3259.7	3298.4	3114.8	2944.6	2822.1	2781.8
47.5°	12263.6	9281.7	3084.9	2487.7	2735.5	3185.0	3240.2	2990.8	2769.9	2595.2	2557.8
50°	13086.4	9559.4	2695.2	2338.4	2638.5	3135.7	3198.5	2869.9	2626.5	2416.0	2378.6
52.5°	14000.2	9814.8	2380.2	2217.4	2544.4	3049.1	3144.6	2783.3	2492.2	2250.2	2209.9
55°	14639.3	9619.2	2126.4	2092.0	2421.9	2925.2	3070.0	2710.2	2299.5	2089.0	2053.1
57.5°	14761.8	8950.2	1933.7	1962.0	2274.1	2769.9	2955.1	2547.4	2195.0	2018.8	1981.5
60°	14427.3	8018.5	1790.3	1842.6	2115.8	2574.2	2740.1	2432.5	2095.0	1944.1	1912.7
62.5°	13586.6	7064.3	1684.3	1735.1	1968.0	2375.6	2605.6	2311.4	1993.4	1859.0	1827.7
65°	11888.8	5931.0	1582.8	1639.5	1830.7	2203.9	2484.7	2199.5	1893.4	1790.3	1760.4
67.5°	8974.1	4442.3	1487.2	1538.0	1708.2	2054.6	2353.3	2089.0	1796.3	1730.6	1694.8
70°	5284.4	2781.8	1378.2	1432.0	1579.8	1899.3	2212.9	1968.0	1675.4	1645.5	1599.2
72.5°	2459.3	1673.9	1254.3	1306.6	1418.6	1691.8	2032.3	1809.7	1532.0	1466.3	1403.6
75°	1467.8	1224.4	1108.0	1154.3	1233.4	1470.8	1805.2	1648.5	1396.1	1309.6	1243.8
77.5°	1097.5	936.2	946.7	995.9	1060.2	1287.1	1599.2	1521.6	1291.6	1224.4	1179.6
80°	789.9	710.8	772.0	825.7	892.9	1170.7	1532.0	1406.5	1167.7	1078.1	1036.3
82.5°	527.1	510.7	580.8	636.1	701.8	1024.3	1439.4	1231.9	997.4	883.9	791.3
85°	291.2	307.6	391.2	415.1	471.8	721.2	1179.6	990.0	751.1	604.8	577.8
87.5°	120.9	141.9	210.5	203.1	250.9	430.0	776.4	597.3	477.8	356.9	277.7
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)