

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: P317820

Luminaire Tested: **GAN-SA6D-750-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317820
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6D-750-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47447 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

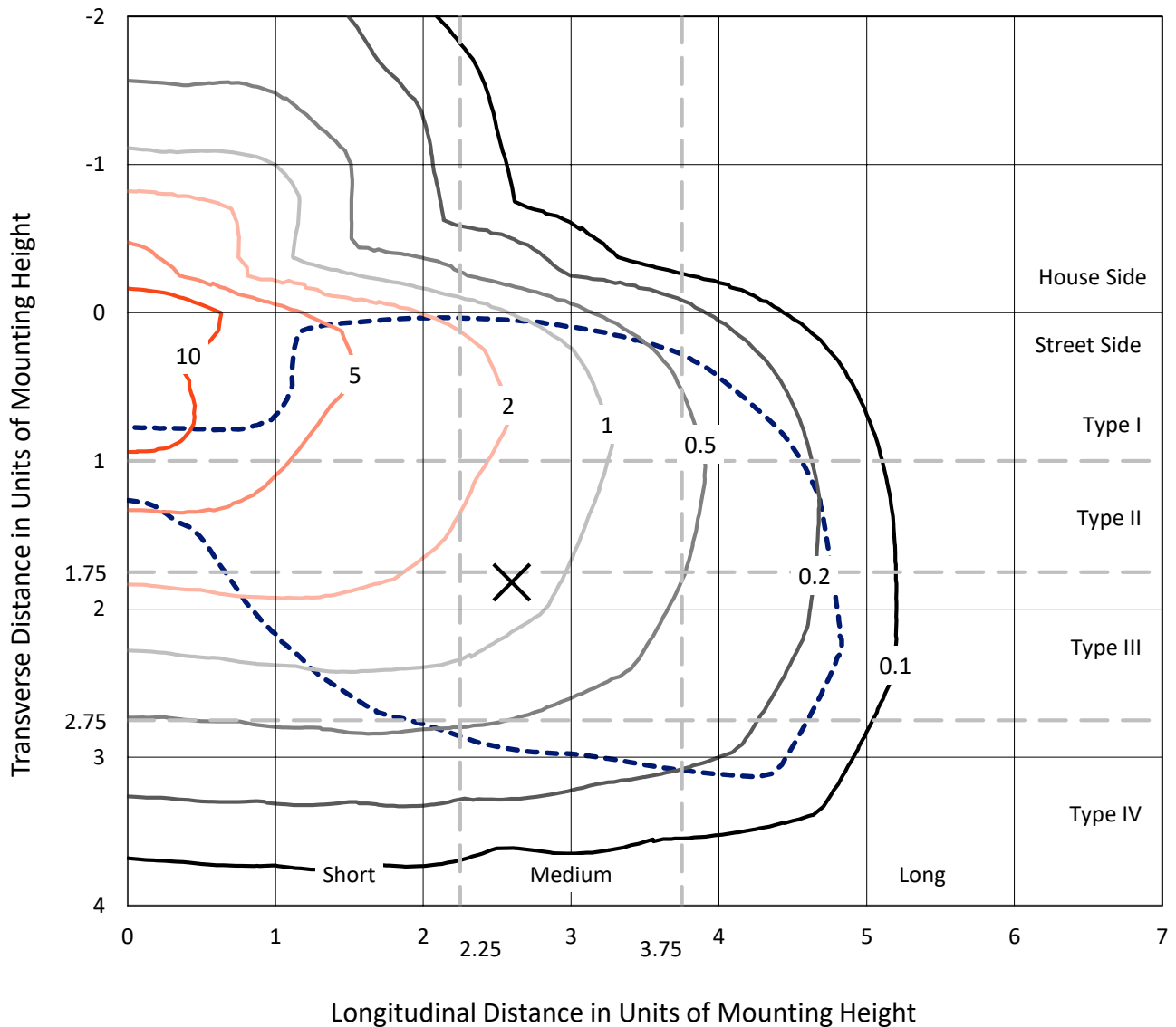
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

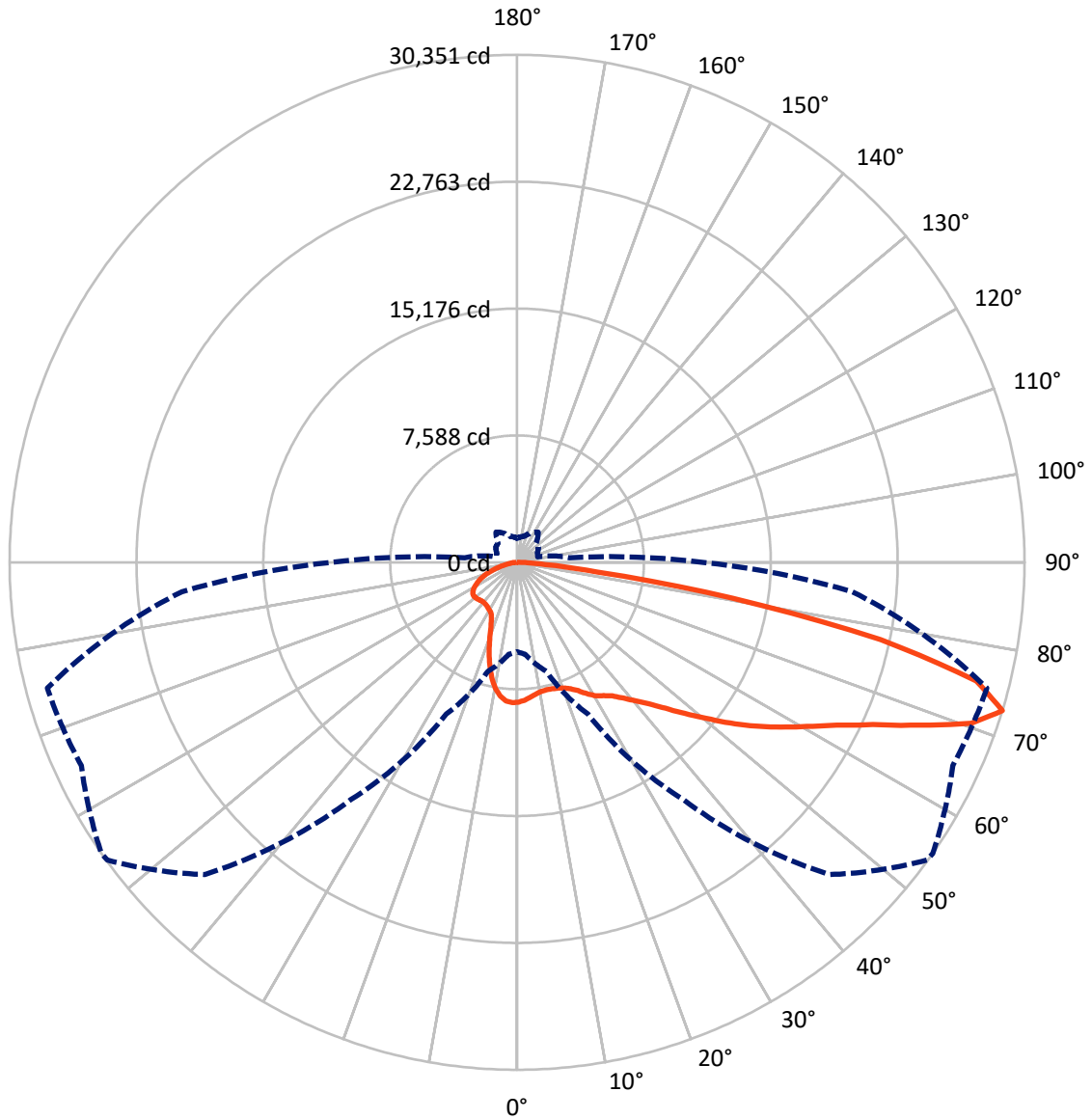
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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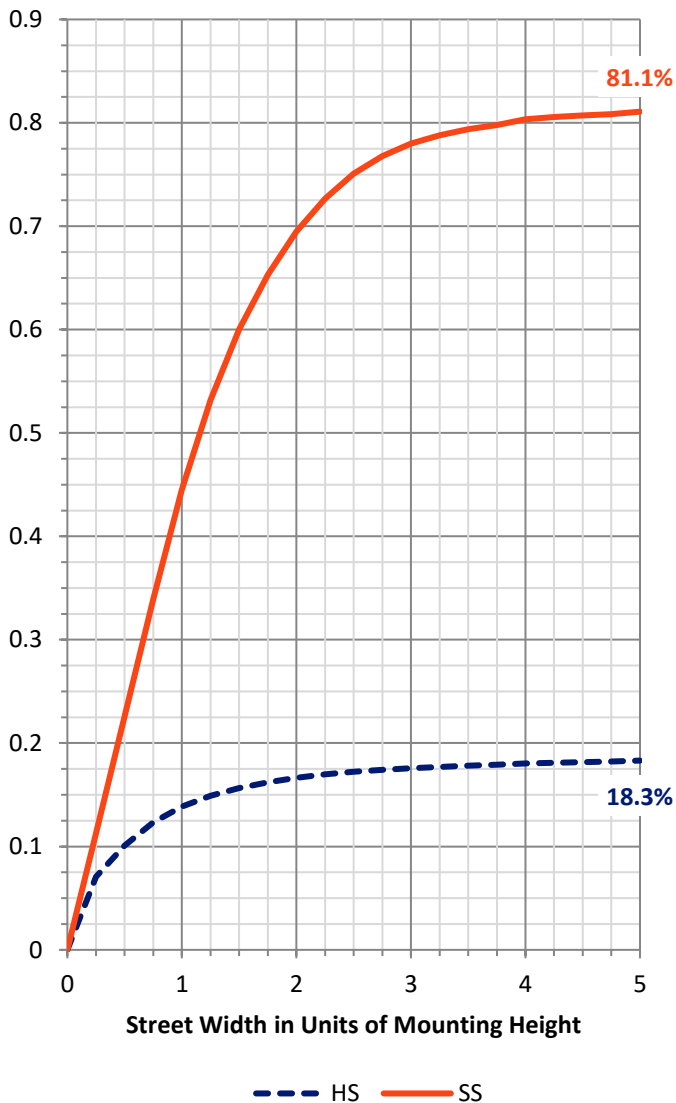
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8818.8	0.0	8818.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	38628.1	0.0	38628.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	47447.0	0.0	47447.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	757.3	1.6
10°-20°	2016.1	4.2
20°-30°	3324.1	7.0
30°-40°	4917.1	10.4
40°-50°	6863.3	14.5
50°-60°	8936.2	18.8
60°-70°	10982.3	23.1
70°-80°	8608.8	18.1
80°-90°	1041.8	2.2
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°	47447.0	100.0
0°-180°	47447.0	100.0

Coefficient of Utilization

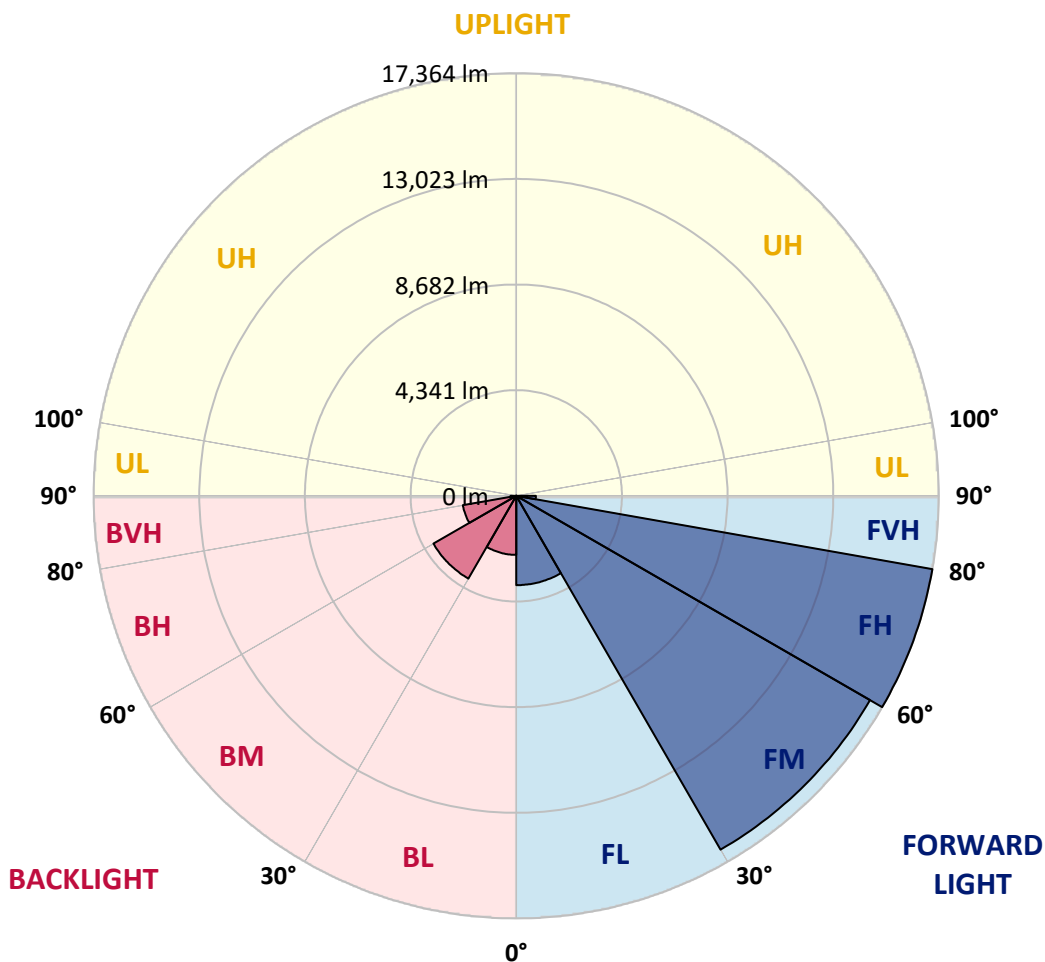


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3671.0	7.7			
FM (30°-60°)	16787.7	35.4			
FH (60°-80°)	17364.0	36.6			G5
FVH (80°-90°)	805.5	1.7			G5
BL (0°-30°)	2426.4	5.1	B3/2500		
BM (30°-60°)	3928.9	8.3	B3/5000		
BH (60°-80°)	2227.2	4.7	B3/2500		G3/2500
BVH (80°-90°)	236.3	0.5			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8368.6	8368.6	8368.6	8368.6	8368.6	8368.6	8368.6	8368.6	8368.6	8368.6	8368.6
2.5°	8096.2	8077.0	8101.0	8134.7	8171.5	8221.2	8250.0	8262.9	8312.5	8331.8	8373.4
5°	7721.2	7711.6	7751.6	7809.3	7891.1	8006.4	8099.4	8117.0	8248.4	8341.4	8426.3
7.5°	7448.8	7448.8	7495.2	7564.1	7655.5	7810.9	7942.3	7966.4	8189.1	8389.5	8546.5
10°	7232.4	7240.4	7294.9	7376.6	7484.0	7649.1	7823.8	7851.0	8173.1	8501.6	8751.6
12.5°	7088.2	7107.4	7157.1	7230.8	7363.8	7564.1	7785.3	7822.2	8206.8	8661.9	8998.4
15°	7179.5	7211.6	7216.4	7246.8	7320.5	7538.5	7807.7	7846.2	8278.9	8825.4	9278.9
17.5°	7580.2	7591.4	7541.7	7477.6	7442.3	7581.8	7875.0	7915.1	8365.4	8987.2	9548.1
20°	8189.1	8182.7	8075.4	7902.3	7722.8	7745.2	7985.6	8027.3	8482.4	9129.9	9817.4
22.5°	8958.4	8935.9	8770.9	8452.0	8145.9	8017.7	8179.5	8214.8	8658.7	9333.4	10105.8
25°	9891.1	9841.4	9623.4	9195.6	8745.2	8415.1	8471.2	8504.8	8915.1	9560.9	10370.2
27.5°	10875.1	10825.4	10548.1	10030.5	9431.1	8916.7	8873.4	8902.3	9206.8	9729.2	10565.8
30°	11903.9	11851.0	11597.8	11017.7	10158.7	9435.9	9248.4	9259.7	9411.9	9820.6	10726.0
32.5°	12937.6	12887.9	12604.2	11931.1	10948.8	9993.6	9519.3	9504.9	9535.3	9915.1	10907.1
35°	13985.6	14004.9	13673.1	12927.9	11823.8	10613.8	9839.8	9809.3	9742.0	10109.0	11163.5
37.5°	15107.4	15094.6	14665.1	13886.3	12738.8	11286.9	10299.7	10294.9	10062.5	10476.0	11565.8
40°	15857.4	15865.5	15604.2	14867.1	13663.5	12032.1	10889.5	10878.3	10573.8	11025.7	12093.0
42.5°	16150.7	16203.6	16270.9	15803.0	14631.5	12895.9	11593.0	11577.0	11286.9	11814.2	12713.2
45°	16171.6	16277.3	16694.0	16634.7	15612.3	13884.7	12492.0	12447.2	12238.8	12862.2	13453.6
47.5°	15992.1	16101.0	16793.3	17129.9	16488.9	14928.0	13543.3	13508.1	13328.6	14173.1	14254.9
50°	15599.4	15703.6	16588.2	17371.9	17210.0	15931.2	14754.9	14661.9	14565.8	15687.6	15171.5
52.5°	14863.9	15064.2	16314.2	17429.6	17641.1	16822.2	16028.9	15968.0	16020.9	17285.3	16089.8
55°	13121.9	13346.2	15607.4	17381.5	17960.0	17570.6	17303.0	17299.8	17573.8	18961.6	17075.4
57.5°	12145.9	12304.5	14168.3	17299.8	18338.2	18314.2	18564.2	18594.6	19128.3	20787.0	18107.5
60°	11594.6	11761.3	13439.2	16996.9	18924.8	19275.7	19851.1	19912.0	20708.4	22807.8	19349.5
62.5°	11093.0	11275.7	12987.2	16379.9	19615.5	20650.7	21392.7	21447.2	22381.5	24884.7	20549.8
65°	10235.6	10442.4	12325.4	15974.4	20243.7	22444.0	23352.7	23389.5	24303.0	27061.0	21468.1
67.5°	9024.1	9213.2	11077.0	15078.6	20708.4	24621.9	25958.5	25979.3	26208.5	28597.9	21937.6
70°	7609.0	7681.1	9298.1	13229.2	20158.8	26658.8	28814.2	28819.0	27945.6	29581.9	21860.7
72.5°	5346.2	5516.1	6750.0	10014.5	17323.8	26410.4	30296.6	30351.1	28753.3	29085.1	20113.9
75°	3278.9	3458.3	4234.0	6068.9	10990.4	20770.9	27992.1	28370.3	27238.9	25932.8	16431.2
77.5°	2192.3	2259.6	2762.8	3538.5	4979.2	11950.4	21520.9	22232.5	22628.3	18911.9	10508.1
80°	1222.8	1351.0	1831.7	2198.7	2214.8	4748.4	12903.9	13070.6	12589.8	7530.5	3242.0
82.5°	647.4	718.0	1222.8	1291.7	1208.3	1589.8	4809.3	4814.1	4022.5	2019.2	963.1
85°	501.6	560.9	838.1	788.5	617.0	705.1	1586.5	1673.1	1368.6	826.9	314.1
87.5°	250.0	310.9	568.9	500.0	242.0	201.9	567.3	605.8	540.1	323.7	113.8
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°	8368.6	8368.6	8368.6	8368.6	8368.6	8368.6	8368.6	8368.6	8368.6	8368.6	8368.6
2.5°	8389.5	8403.9	8421.5	8402.3	8395.9	8370.2	8327.0	8317.3	8294.9	8296.5	8309.3
5°	8463.2	8487.2	8477.6	8403.9	8315.7	8192.3	8064.1	7955.2	7883.1	7878.2	7873.4
7.5°	8604.2	8620.2	8544.9	8335.0	8088.2	7802.9	7533.7	7298.1	7155.5	7120.2	7112.2
10°	8825.4	8822.2	8615.4	8192.3	7700.4	7190.7	6758.0	6431.1	6240.4	6184.3	6169.9
12.5°	9072.2	9035.3	8639.5	7932.7	7152.3	6445.5	5897.5	5533.7	5335.0	5270.9	5254.8
15°	9327.0	9235.6	8580.2	7544.9	6479.2	5642.7	5067.3	4730.8	4623.4	4588.2	4581.8
17.5°	9564.1	9387.9	8410.3	7019.3	5711.6	4843.0	4394.3	4259.6	4285.3	4331.8	4333.4
20°	9796.5	9490.4	8137.9	6355.8	4902.3	4184.3	4032.1	4131.4	4253.2	4347.8	4360.6
22.5°	10025.7	9562.5	7786.9	5589.8	4177.9	3814.1	3921.5	4102.6	4242.0	4344.6	4362.2
25°	10218.0	9580.2	7302.9	4772.5	3674.7	3674.7	3868.6	4040.1	4177.9	4278.9	4296.5
27.5°	10288.5	9461.6	6620.2	4016.0	3421.5	3610.6	3794.9	3937.5	4054.5	4161.9	4181.1
30°	10315.8	9242.0	5831.8	3408.7	3317.3	3541.7	3695.5	3817.3	3927.9	4028.9	4046.5
32.5°	10320.6	8977.6	4995.2	3064.1	3245.2	3469.6	3572.1	3679.5	3798.1	3838.2	3844.6
35°	10351.0	8665.1	4113.8	2887.8	3177.9	3402.3	3484.0	3560.9	3368.6	3383.0	3395.8
37.5°	10439.2	8355.8	3376.6	2788.5	3134.6	3367.0	3464.8	3185.9	3035.3	3000.0	2995.2
40°	10604.2	8025.7	2830.1	2708.3	3118.6	3384.6	3341.4	2974.4	2714.8	2520.8	2492.0
42.5°	10833.4	7669.9	2480.8	2655.5	3129.8	3469.6	3169.9	2770.8	2339.8	2214.8	2198.7
45°	11091.4	7296.5	2291.7	2618.6	3168.3	3535.3	3134.6	2500.0	2165.1	2070.5	2062.5
47.5°	11341.4	6839.8	2193.9	2602.6	3221.2	3482.4	2985.6	2416.7	2081.7	2032.1	2036.9
50°	11628.3	6427.9	2134.6	2584.9	3267.6	3448.7	2817.3	2373.4	2049.7	2110.6	2174.7
52.5°	11870.2	6001.6	2081.7	2549.7	3285.3	3389.4	2774.1	2381.4	2049.7	2166.7	2227.6
55°	12157.1	5679.5	2020.8	2476.0	3251.6	3221.2	2743.6	2429.5	2073.7	2000.0	2006.4
57.5°	12527.3	5573.7	1953.5	2360.6	3139.4	2976.0	2729.2	2476.0	2059.3	2012.8	2028.9
60°	13040.1	5685.9	1926.3	2209.9	2964.8	2783.7	2730.8	2451.9	1958.3	1878.2	1879.8
62.5°	13528.9	5810.9	1924.7	2115.4	2750.0	2612.2	2693.9	2373.4	1907.1	1860.6	1878.2
65°	13689.2	5684.3	1847.8	2009.6	2508.0	2407.1	2626.6	2290.1	1868.6	1798.1	1794.9
67.5°	13474.4	5291.7	1692.3	1838.1	2230.8	2168.3	2538.5	2190.7	1807.7	1750.0	1740.4
70°	12836.6	4415.1	1500.0	1612.2	1915.1	1899.0	2399.0	2075.3	1726.0	1676.3	1634.6
72.5°	11120.2	3145.8	1264.4	1341.4	1559.3	1610.6	2206.7	1924.7	1610.6	1503.2	1439.1
75°	9133.1	2328.5	1038.5	1054.5	1184.3	1323.7	1942.3	1748.4	1474.4	1291.7	1242.0
77.5°	5593.0	1424.7	826.9	833.3	849.4	1056.1	1599.4	1551.3	1301.3	1076.9	1041.7
80°	1810.9	777.2	597.8	628.2	580.1	774.0	1237.2	1320.5	1117.0	900.6	862.2
82.5°	689.1	453.5	403.8	424.7	402.2	519.2	902.2	1057.7	915.1	740.4	602.6
85°	333.3	256.4	238.8	267.6	248.4	266.0	576.9	778.8	693.9	482.4	448.7
87.5°	118.6	113.8	91.3	123.4	105.8	94.6	176.3	392.6	458.3	331.7	296.5
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)