

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: P319094

Luminaire Tested: **GAN-SA0C-750-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319094
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-SA0C-750-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 69520 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

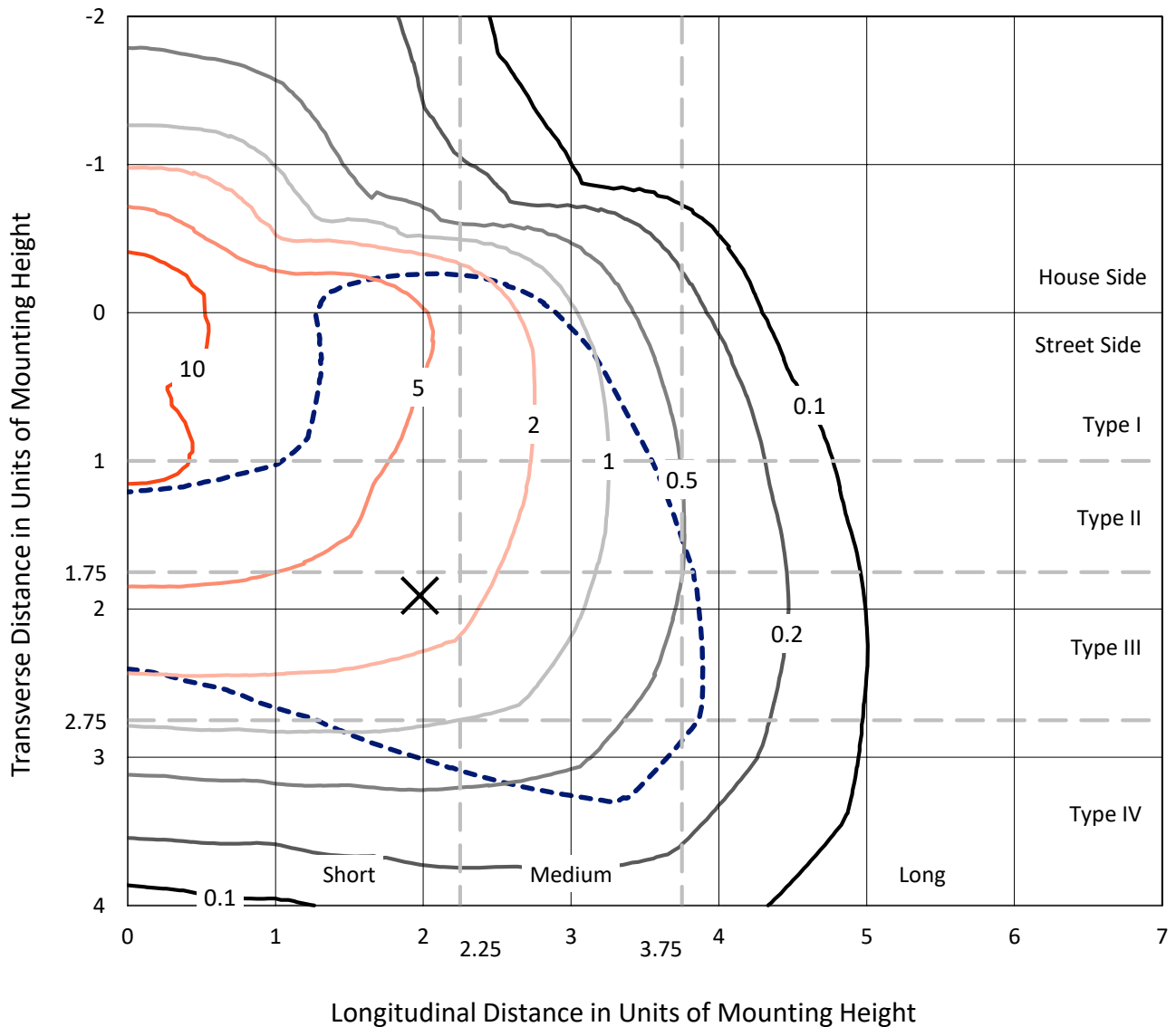
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

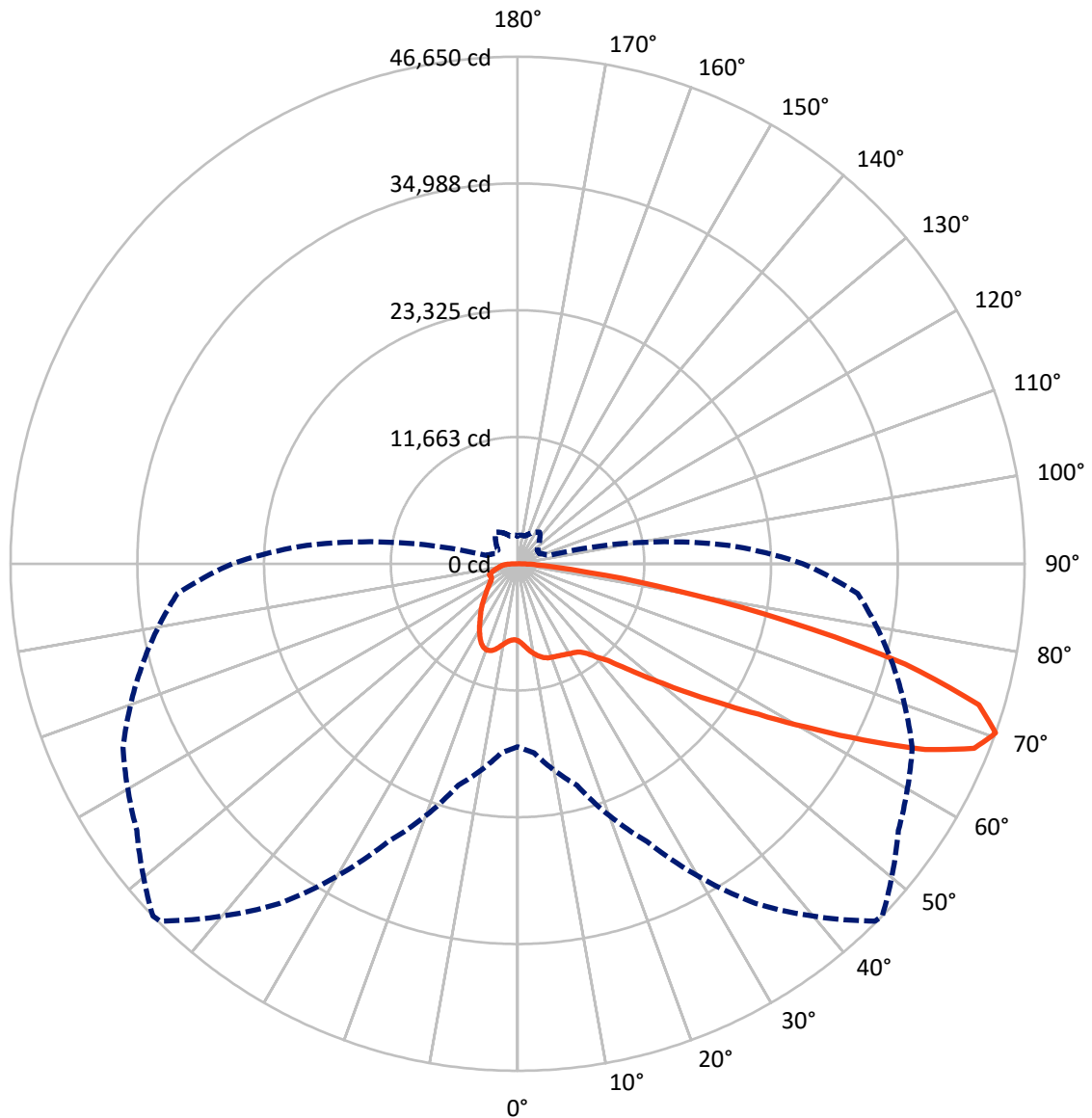
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 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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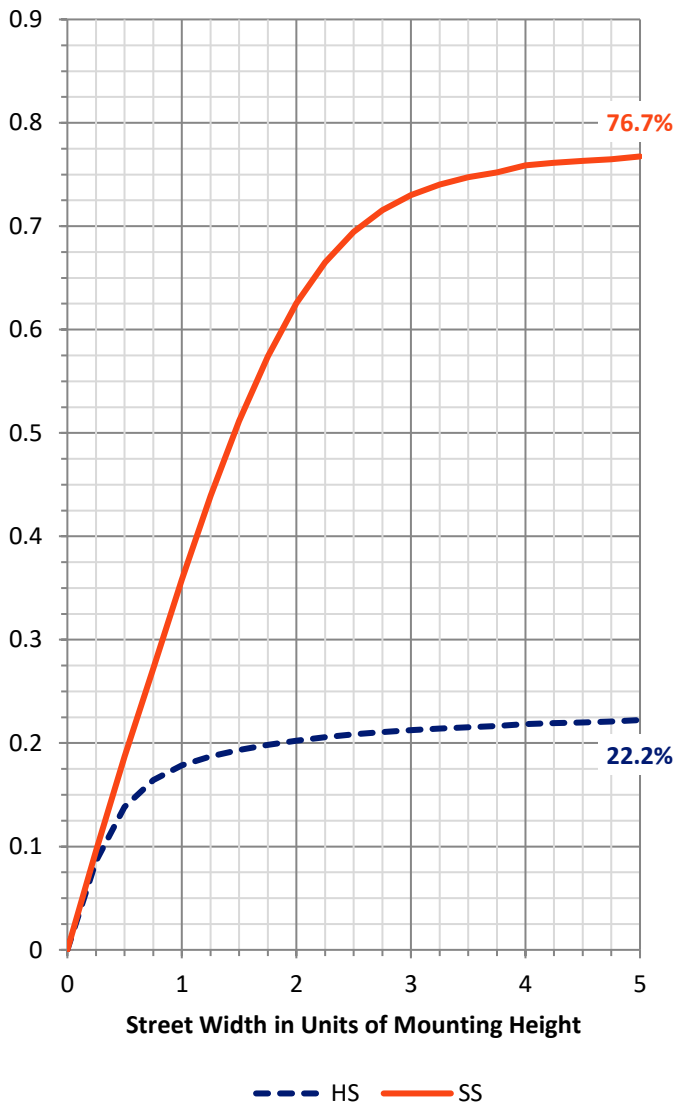
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15933.8	0.0	15933.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	53586.2	0.0	53586.2
	% Fixture	77.1	0.0	77.1
Total	Lumens	69520.0	0.0	69520.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	722.0	1.0
10°-20°	2405.6	3.5
20°-30°	4011.0	5.8
30°-40°	5691.9	8.2
40°-50°	8372.5	12.0
50°-60°	14178.8	20.4
60°-70°	20126.6	29.0
70°-80°	12227.1	17.6
80°-90°	1784.4	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°	69520.0	100.0
0°-180°	69520.0	100.0

Coefficient of Utilization

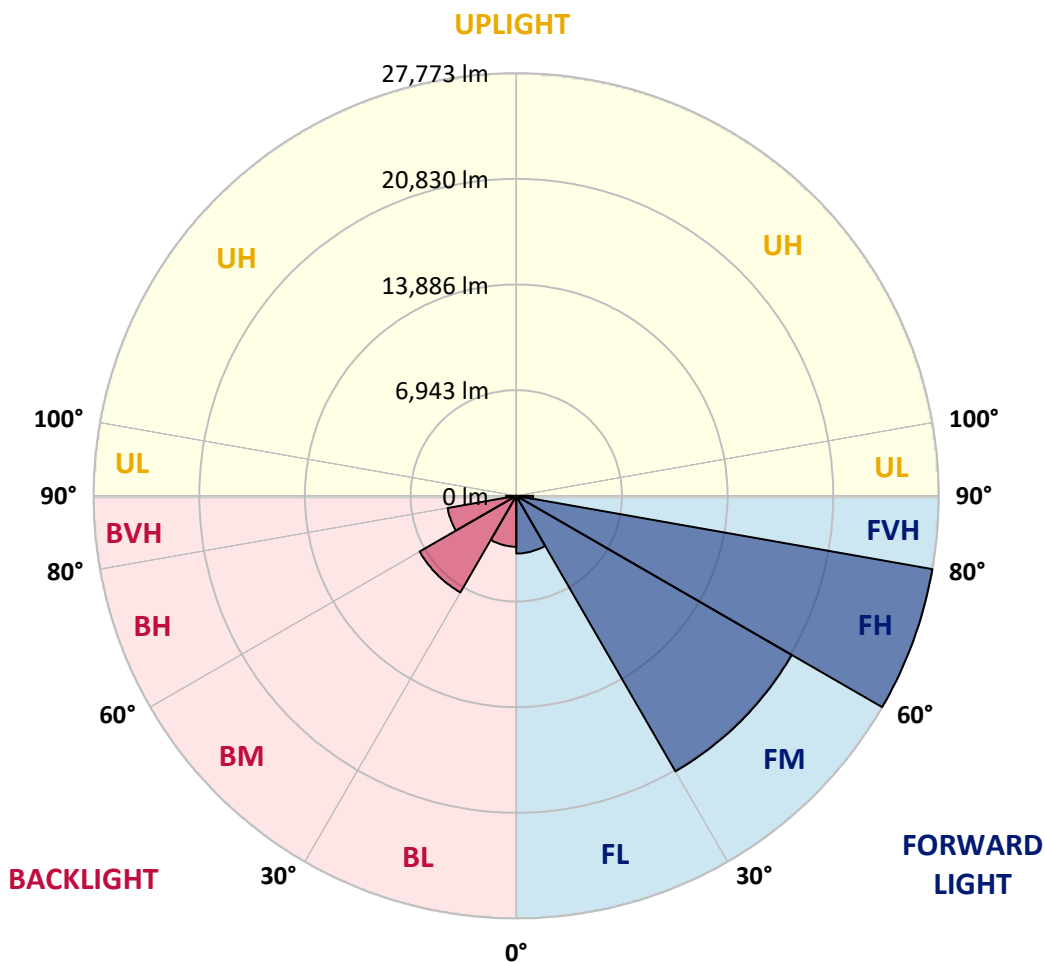


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3793.3	5.5			
FM (30°-60°)	20908.5	30.1			
FH (60°-80°)	27772.8	39.9			G5
FVH (80°-90°)	1111.5	1.6			G5
BL (0°-30°)	3345.3	4.8	B4/5000		
BM (30°-60°)	7334.7	10.6	B4/8500		
BH (60°-80°)	4580.8	6.6	B4/5000		G4/5000
BVH (80°-90°)	672.9	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°	7082.7	7082.7	7082.7	7082.7	7082.7	7082.7	7082.7	7082.7	7082.7	7082.7	7082.7
2.5°	7437.2	7442.0	7451.5	7427.7	7361.1	7342.1	7334.9	7265.9	7220.7	7154.1	7097.0
5°	8032.0	8036.8	8022.5	7955.9	7808.4	7698.9	7689.4	7532.4	7389.6	7237.4	7123.2
7.5°	8653.0	8660.1	8614.9	8488.8	8281.8	8091.5	8079.6	7865.5	7649.0	7418.2	7246.9
10°	9202.5	9174.0	9100.2	8924.2	8679.1	8446.0	8436.5	8212.8	7963.0	7684.7	7456.3
12.5°	9568.9	9545.1	9450.0	9235.9	8967.0	8752.9	8733.9	8526.9	8284.2	7979.7	7706.1
15°	9771.2	9787.8	9659.3	9416.7	9155.0	8974.2	8957.5	8810.0	8593.5	8286.6	7972.5
17.5°	9797.3	9811.6	9687.9	9447.6	9233.5	9109.8	9102.6	9005.1	8848.1	8553.0	8224.7
20°	9645.1	9654.6	9552.3	9354.8	9214.4	9176.4	9174.0	9131.2	9014.6	8752.9	8434.1
22.5°	9423.8	9430.9	9357.2	9214.4	9166.9	9226.3	9243.0	9226.3	9143.1	8898.0	8598.2
25°	9369.1	9364.3	9288.2	9143.1	9183.5	9309.6	9331.0	9338.2	9281.1	9066.9	8807.6
27.5°	9633.2	9616.5	9471.4	9238.2	9264.4	9416.7	9445.2	9514.2	9478.5	9290.6	9045.5
30°	10396.9	10368.3	10070.9	9599.9	9471.4	9549.9	9585.6	9695.0	9702.2	9545.1	9362.0
32.5°	11686.4	11650.7	11117.8	10275.5	9821.1	9685.5	9718.8	9883.0	9971.0	9849.7	9652.2
35°	13316.1	13275.7	12576.2	11424.7	10406.4	9944.8	9968.6	10099.5	10275.5	10104.2	9842.5
37.5°	15014.8	14917.3	14244.0	12776.0	11336.6	10499.2	10499.2	10515.8	10599.1	10242.2	10066.2
40°	16704.0	16606.5	15997.4	14365.3	12540.5	11372.3	11317.6	10948.8	10882.2	10575.3	10515.8
42.5°	18274.2	18245.7	17886.4	16161.6	13953.7	12231.2	12155.1	11529.4	11543.6	11353.3	11355.7
45°	19944.4	19944.4	19651.8	17974.5	15600.1	13611.1	13535.0	12614.2	12757.0	12669.0	12880.7
47.5°	21307.7	21350.5	21310.0	19863.5	17515.3	15364.5	15226.6	14117.9	14517.6	14819.7	15435.9
50°	22699.5	22766.1	22773.2	21935.8	19830.2	17448.7	17291.7	16114.0	17006.2	17872.2	19083.2
52.5°	24719.4	24869.2	24272.1	24003.2	22666.2	19923.0	19768.4	18681.1	20170.4	21386.2	23472.7
55°	26591.8	26460.9	26035.0	26201.6	25701.9	22739.9	22623.3	21669.3	23696.3	25276.1	27985.9
57.5°	27605.3	27595.8	28024.0	28737.7	28975.7	26213.5	26115.9	25188.1	27671.9	28859.1	32223.2
60°	28794.8	28811.5	29872.6	31492.8	32473.0	30538.8	30495.9	29791.7	31533.2	32204.2	35546.9
62.5°	28961.4	29261.2	31088.3	33876.7	35746.7	35592.1	35687.2	33938.6	34987.8	34873.6	38028.3
65°	27046.2	27441.1	30748.1	34597.6	39001.4	41118.8	41206.9	38109.2	37711.9	37155.2	38915.7
67.5°	23120.6	23705.8	27298.4	33029.7	40074.4	45203.8	45327.6	41342.5	39972.1	37928.4	36779.3
70°	16825.3	17474.9	21091.2	28209.6	38161.6	46510.0	46650.4	42772.3	40057.7	35727.7	31397.6
72.5°	10163.7	10672.9	13653.9	20767.6	32208.9	44130.8	44380.6	40959.4	36572.3	30262.8	23184.8
75°	4463.3	4796.4	6602.1	11967.1	23058.7	36512.8	36824.5	35059.1	29715.6	21992.9	13703.9
77.5°	1900.9	1996.1	2707.5	5198.4	13035.4	24950.1	25378.4	25616.3	20160.9	11967.1	5790.8
80°	1184.8	1222.9	1532.2	2353.0	6100.1	14013.2	14474.7	15071.9	10011.5	4399.0	2022.3
82.5°	720.9	763.7	1018.3	1422.7	3176.2	6352.3	6573.6	6994.7	3885.2	1900.9	1046.8
85°	433.0	463.9	623.3	899.3	1808.2	2498.1	2495.7	2759.8	1829.6	1222.9	552.0
87.5°	207.0	230.8	333.1	466.3	911.2	937.4	877.9	994.5	1111.1	801.8	278.4
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°	7082.7	7082.7	7082.7	7082.7	7082.7	7082.7	7082.7	7082.7	7082.7	7082.7	7082.7
2.5°	7078.0	7068.5	7037.5	7013.7	7009.0	6994.7	6982.8	6989.9	6999.5	7001.8	7001.8
5°	7075.6	7049.4	7009.0	6992.3	7013.7	7042.3	7078.0	7125.6	7154.1	7175.5	7189.8
7.5°	7189.8	7139.8	7094.6	7085.1	7127.9	7204.1	7285.0	7384.9	7453.9	7501.5	7511.0
10°	7380.1	7318.3	7273.1	7282.6	7358.7	7468.1	7582.3	7710.8	7815.5	7879.7	7884.5
12.5°	7599.0	7539.5	7496.7	7537.1	7663.2	7796.5	7915.4	8027.2	8122.4	8186.7	8186.7
15°	7851.2	7808.4	7758.4	7851.2	8022.5	8141.4	8191.4	8246.1	8298.5	8346.1	8336.5
17.5°	8093.9	8053.4	8027.2	8136.7	8315.1	8369.8	8336.5	8296.1	8296.1	8322.3	8327.0
20°	8303.2	8267.5	8284.2	8391.3	8484.0	8426.9	8303.2	8174.8	8122.4	8136.7	8151.0
22.5°	8486.4	8469.8	8519.7	8569.7	8503.1	8303.2	8074.8	7901.2	7836.9	7832.2	7836.9
25°	8700.5	8698.2	8760.0	8669.6	8374.6	8005.8	7698.9	7530.0	7494.3	7522.9	7570.5
27.5°	8967.0	8993.2	9024.1	8693.4	8112.9	7556.2	7244.5	7127.9	7163.6	7232.6	7277.8
30°	9307.2	9378.6	9312.0	8633.9	7737.0	7042.3	6744.9	6711.6	6809.1	6906.7	6954.3
32.5°	9637.9	9749.8	9588.0	8479.3	7251.6	6497.5	6266.7	6257.2	6376.1	6471.3	6537.9
35°	9904.4	10125.7	9795.0	8172.4	6690.2	5995.5	5826.5	5762.3	5805.1	5916.9	5993.1
37.5°	10251.8	10620.5	9937.7	7703.7	6081.1	5581.5	5384.0	5236.5	5198.4	5243.6	5281.7
40°	10887.0	11374.7	10004.3	7049.4	5486.3	5167.5	4967.7	4751.2	4601.3	4491.8	4494.2
42.5°	11924.3	12357.3	9961.5	6254.8	4936.7	4763.1	4537.0	4287.2	4044.6	3797.1	3778.1
45°	13608.7	13818.1	9833.0	5412.6	4453.8	4339.6	4127.8	3878.0	3554.4	3273.7	3247.5
47.5°	16304.3	15840.4	9633.2	4677.4	4027.9	3980.3	3785.2	3497.3	3154.8	2928.7	2909.7
50°	19980.1	18759.6	9535.6	4092.1	3652.0	3666.3	3506.9	3202.3	2878.8	2712.2	2693.2
52.5°	24376.8	22159.4	9723.6	3640.1	3349.8	3399.8	3280.8	2995.3	2724.1	2593.3	2574.2
55°	28937.6	25680.5	9925.8	3311.8	3064.3	3161.9	3121.4	2885.9	2640.9	2519.5	2502.9
57.5°	32841.8	28309.5	9521.4	3045.3	2809.8	2962.0	2997.7	2816.9	2598.0	2488.6	2469.6
60°	35299.4	29368.2	8460.3	2795.5	2607.5	2802.6	2926.4	2797.9	2614.7	2605.2	2590.9
62.5°	36465.2	29275.4	6868.6	2598.0	2481.5	2733.6	2978.7	2904.9	2805.0	2890.7	2897.8
65°	35941.8	27876.5	5115.2	2467.2	2391.0	2759.8	3135.7	3107.2	2859.7	2945.4	2957.3
67.5°	32496.8	24538.5	3787.6	2353.0	2291.1	2833.6	3421.2	3173.8	2752.7	2814.5	2776.5
70°	26265.8	19454.3	2921.6	2224.5	2188.8	2824.1	3549.7	3133.3	2636.1	2650.4	2548.1
72.5°	18112.5	13266.1	2376.8	2105.5	2041.3	2574.2	3459.3	3033.4	2538.6	2429.1	2293.5
75°	9849.7	7120.8	2019.9	1981.8	1782.0	2260.2	3292.7	2962.0	2450.5	2305.4	2229.3
77.5°	3875.6	2954.9	1753.4	1812.9	1558.3	1996.1	3107.2	2826.4	2329.2	2138.9	2100.8
80°	1582.1	1508.4	1453.7	1567.9	1339.5	1746.3	2883.5	2667.0	2184.1	1984.2	1908.1
82.5°	896.9	937.4	1130.1	1237.2	1087.3	1608.3	2776.5	2538.6	2010.4	1777.2	1686.8
85°	459.2	549.6	787.5	887.4	799.4	1368.0	2557.6	2222.1	1613.1	1360.9	1368.0
87.5°	221.3	306.9	497.2	556.7	518.7	989.7	1910.5	1610.7	1256.2	994.5	963.6
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)