

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: P318692

Luminaire Tested: **GAN-SA8C-730-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318692
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-SA8C-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA 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: 51935 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 445
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

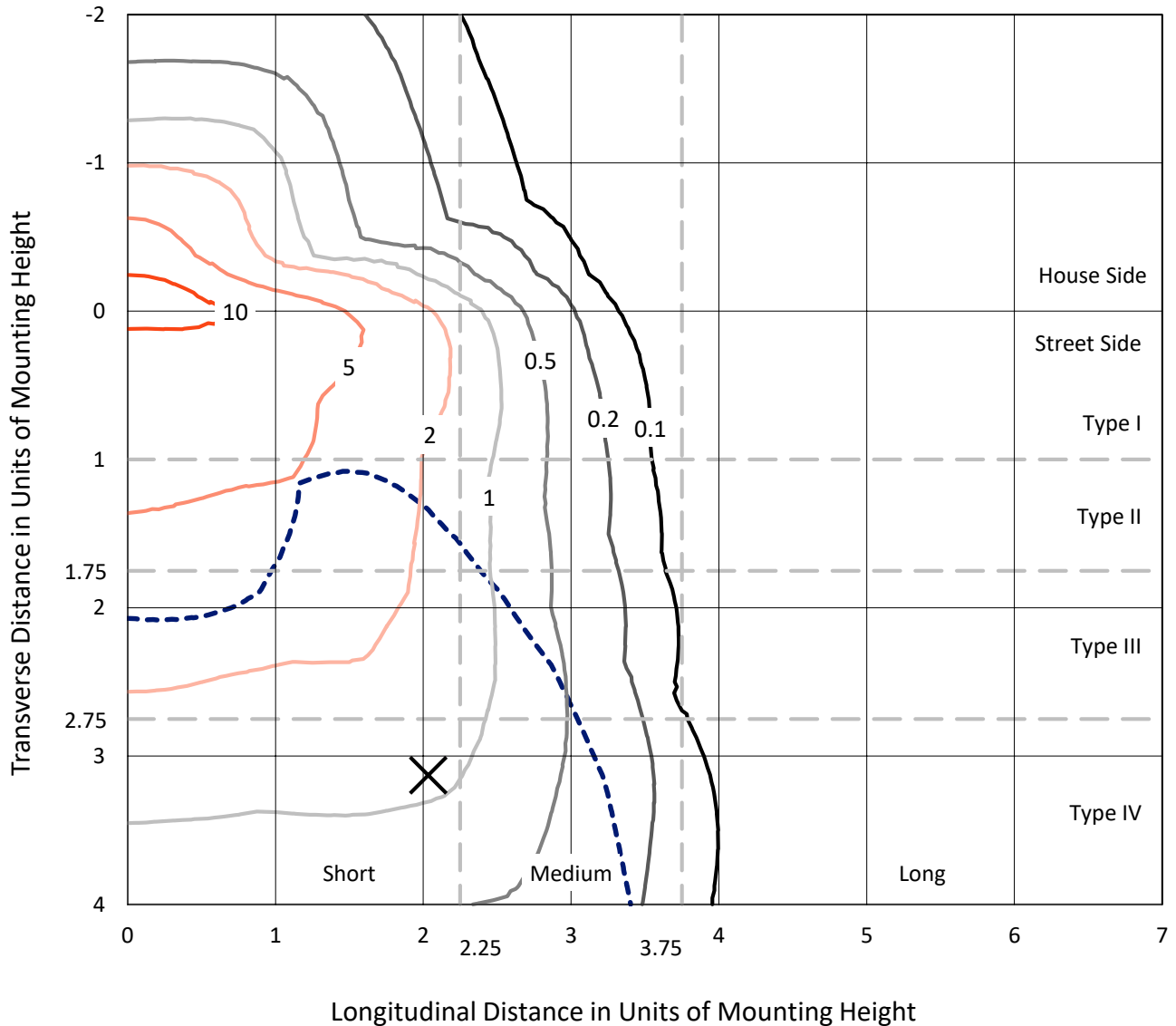




REPORT NUMBER: P318692
 CATALOG NUMBER: GAN-SA8C-730-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

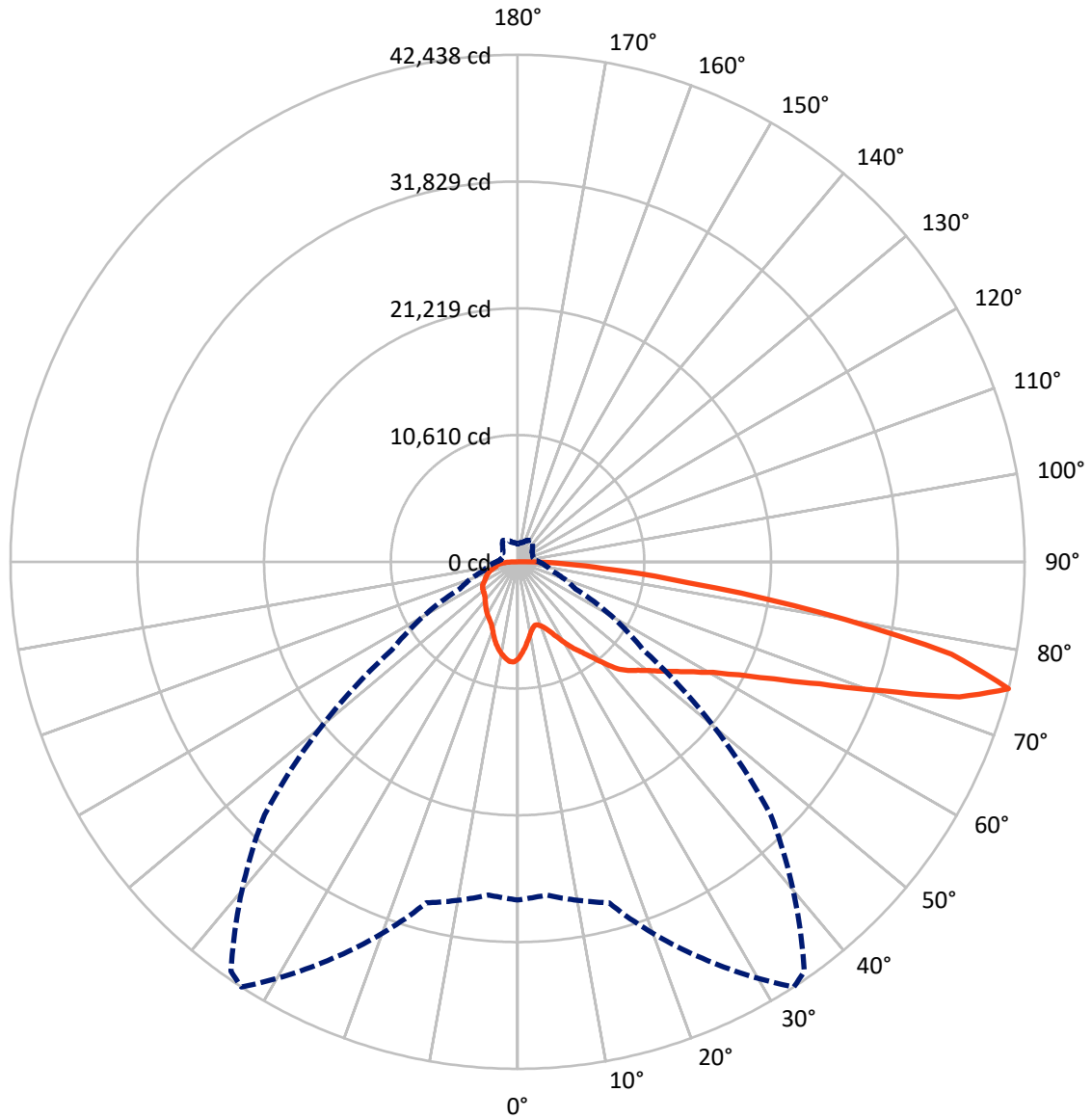
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type IV - Short - N/A

REPORT NUMBER: P318692
CATALOG NUMBER: GAN-SA8C-730-U-T4FT

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GAN-SA8C-730-U-T4FT

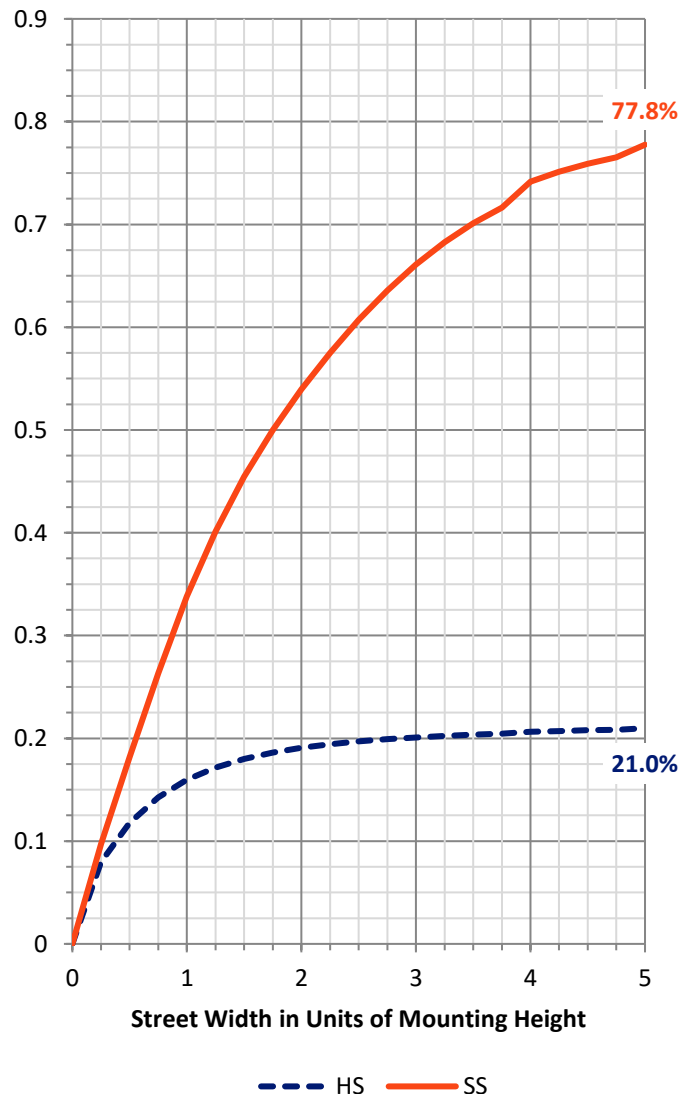
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11151.8	0.0	11151.8
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	40783.2	0.0	40783.2
	% Fixture	78.5	0.0	78.5
Total	Lumens	51935.0	0.0	51935.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	734.1	1.4
10°-20°	1988.4	3.8
20°-30°	3247.3	6.3
30°-40°	4836.0	9.3
40°-50°	6936.2	13.4
50°-60°	9522.3	18.3
60°-70°	11921.5	23.0
70°-80°	10784.8	20.8
80°-90°	1964.5	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°	51935.0	100.0
0°-180°	51935.0	100.0

Coefficient of Utilization

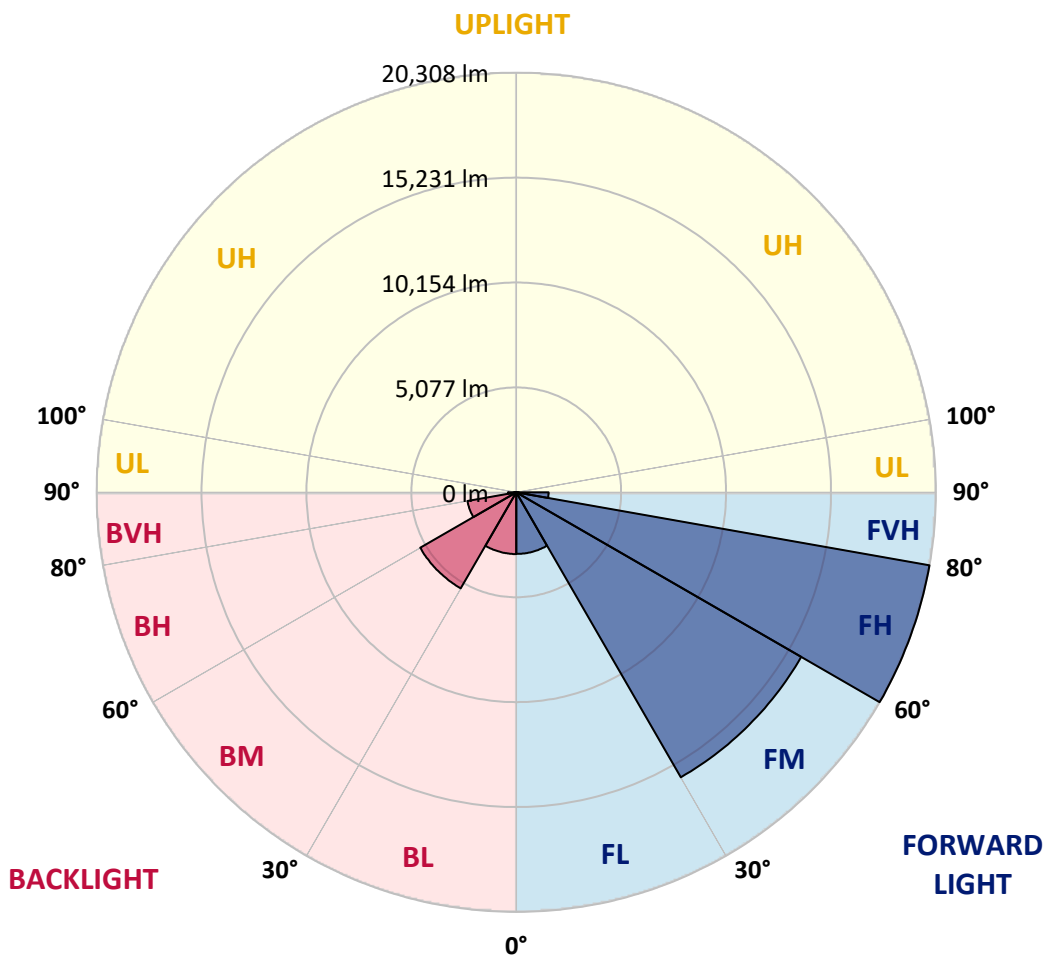


REPORT NUMBER: P318692
 CATALOG NUMBER: GAN-SA8C-730-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2982.9	5.7			
FM (30°-60°)	15927.4	30.7			
FH (60°-80°)	20308.4	39.1			G5
FVH (80°-90°)	1564.6	3.0			G5
BL (0°-30°)	2987.0	5.8	B4/5000		
BM (30°-60°)	5367.0	10.3	B4/8500		
BH (60°-80°)	2397.8	4.6	B3/2500		G3/2500
BVH (80°-90°)	400.0	0.8			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°	33°	35°	45°	55°	65°	75°	85°
0°	8117.7	8117.7	8117.7	8117.7	8117.7	8117.7	8117.7	8117.7	8117.7	8117.7	8117.7
2.5°	7538.3	7509.6	7563.4	7570.6	7617.2	7635.2	7699.7	7800.2	7882.7	7977.8	8063.9
5°	6854.8	6835.0	6910.4	6964.2	7066.5	7109.5	7262.0	7475.5	7665.7	7880.9	8076.5
7.5°	6205.4	6194.6	6278.9	6400.9	6519.3	6578.5	6842.2	7152.6	7470.1	7818.1	8117.7
10°	5658.2	5654.6	5735.3	5855.5	6029.5	6095.9	6436.8	6845.8	7290.7	7769.7	8187.7
12.5°	5351.4	5364.0	5401.7	5502.1	5663.6	5730.0	6108.5	6589.3	7140.0	7753.6	8290.0
15°	5426.8	5446.5	5381.9	5378.3	5493.1	5545.2	5900.4	6406.3	7032.4	7780.5	8438.9
17.5°	5747.9	5751.5	5581.1	5473.4	5543.4	5570.3	5835.8	6302.2	6969.6	7841.5	8625.4
20°	6200.0	6191.0	5889.6	5710.2	5747.9	5755.1	5927.3	6304.0	6964.2	7947.3	8867.6
22.5°	6799.2	6732.8	6327.3	6083.4	6074.4	6063.6	6162.3	6436.8	7043.1	8119.5	9156.4
25°	7581.3	7518.5	6960.6	6626.9	6555.2	6528.3	6542.6	6720.2	7199.2	8304.3	9479.4
27.5°	8451.4	8342.0	7803.8	7332.0	7183.1	7145.4	7059.3	7120.3	7369.6	8481.9	9863.3
30°	9179.8	9120.6	8650.5	8090.8	7915.0	7861.2	7635.2	7568.8	7615.4	8724.1	10347.6
32.5°	9587.0	9547.5	9262.3	8810.2	8647.0	8571.6	8252.3	8119.5	8010.1	9106.2	11004.2
35°	10080.3	10055.2	9883.0	9554.7	9312.5	9233.6	8986.0	8847.9	8566.2	9631.8	11852.8
37.5°	10708.2	10681.3	10684.9	10419.4	10130.6	10057.0	9893.8	9748.5	9287.4	10322.5	12774.9
40°	11418.6	11366.6	11346.9	11334.3	11151.3	11110.1	11024.0	10826.6	10191.6	11147.8	13684.4
42.5°	12487.9	12303.1	11908.4	12057.3	12238.5	12217.0	12286.9	12003.5	11196.2	12123.7	14572.4
45°	13519.4	13216.2	12534.5	12566.8	12963.3	13083.5	13607.3	13406.4	12285.1	13192.9	15491.0
47.5°	13989.4	13759.8	13180.3	13182.1	13575.0	13824.4	14972.5	14829.0	13429.7	14407.4	16612.2
50°	14515.0	14285.4	13765.2	13960.7	14303.4	14568.9	16291.1	16217.5	14518.6	15736.7	17955.9
52.5°	15089.1	14699.8	14369.7	14719.6	15200.3	15508.9	17611.4	17410.5	15517.9	17075.0	19500.5
55°	15096.3	14990.4	15241.6	15498.1	16217.5	16596.1	18994.6	18463.6	16332.3	18390.0	20758.1
57.5°	15955.6	15783.4	16316.2	16434.6	17374.6	17801.6	20370.6	19380.3	17161.2	19398.2	21436.2
60°	17093.0	16945.9	17381.8	17694.0	18806.2	19376.7	21839.8	20322.1	17812.4	20158.9	21403.9
62.5°	19057.4	18890.5	18885.2	19322.9	20820.9	21484.6	23488.5	21246.0	18070.7	20309.6	20490.8
65°	21933.1	21667.6	21167.1	21375.2	23603.3	24265.3	25330.9	21915.2	17729.8	19502.3	18138.9
67.5°	24731.7	24722.8	24107.4	24534.4	27277.4	27808.4	27429.9	21981.6	16666.0	16691.1	13966.1
70°	27521.4	27557.2	27453.2	28938.6	32241.3	32793.8	29665.2	21090.0	14274.6	12053.7	8367.1
72.5°	29731.5	29722.6	30246.4	34076.5	38683.5	38559.7	31548.8	18388.2	10249.0	6506.7	3998.8
75°	28299.9	27987.8	29548.5	36620.4	42438.2	41833.7	29946.8	12826.9	5319.1	2961.9	2152.8
77.5°	18458.2	18754.2	21045.1	30251.8	37120.9	36385.4	21970.8	5984.7	2506.2	1942.9	1560.8
80°	6684.3	6996.5	9854.3	17136.0	25574.9	25454.7	10819.5	2459.5	1695.3	1467.5	1137.4
82.5°	2299.9	2414.7	3887.5	7610.0	14439.7	14977.9	4070.5	1397.5	1232.5	1040.5	778.6
85°	902.4	1033.3	1777.8	3661.5	7283.5	7337.4	1648.7	836.0	857.5	681.7	427.0
87.5°	342.6	416.2	850.3	1700.7	3326.0	3055.1	590.2	398.3	488.0	405.4	202.7
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: P318692
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8117.7	8117.7	8117.7	8117.7	8117.7	8117.7	8117.7	8117.7	8117.7	8117.7	8117.7
2.5°	8130.3	8168.0	8246.9	8300.7	8358.1	8374.3	8381.4	8395.8	8410.1	8404.8	8406.6
5°	8180.5	8254.1	8381.4	8435.3	8460.4	8431.7	8376.1	8331.2	8298.9	8281.0	8275.6
7.5°	8263.0	8367.1	8503.4	8494.5	8437.1	8309.7	8166.2	8058.5	7968.8	7936.5	7918.6
10°	8372.5	8494.5	8589.5	8487.3	8320.5	8099.8	7884.5	7717.7	7583.1	7531.1	7522.1
12.5°	8512.4	8636.2	8654.1	8437.1	8160.8	7859.4	7567.0	7346.3	7145.4	7080.8	7066.5
15°	8693.6	8810.2	8699.0	8349.2	7963.4	7558.0	7179.5	6879.9	6668.2	6589.3	6560.6
17.5°	8883.8	8995.0	8707.9	8203.8	7705.1	7201.0	6725.6	6418.8	6176.7	6085.2	6074.4
20°	9111.6	9161.8	8670.3	7995.7	7349.9	6738.2	6237.6	5948.8	5819.7	5755.1	5747.9
22.5°	9393.2	9339.4	8584.2	7714.1	6899.6	6203.6	5796.3	5661.8	5629.5	5615.1	5620.5
25°	9691.0	9526.0	8456.8	7346.3	6330.9	5669.0	5473.4	5511.1	5554.1	5548.8	5548.8
27.5°	10019.3	9716.2	8261.2	6858.4	5701.2	5231.2	5254.5	5392.7	5457.3	5455.5	5453.7
30°	10440.9	9931.4	8011.9	6271.7	5112.8	4922.7	5064.4	5233.0	5320.9	5317.3	5319.1
32.5°	10959.4	10168.2	7672.8	5616.9	4687.7	4694.8	4858.1	5024.9	5127.2	5118.2	5120.0
35°	11565.7	10433.8	7213.6	4971.1	4406.0	4513.6	4642.8	4759.4	4856.3	4843.7	4831.2
37.5°	12225.9	10693.9	6603.6	4393.4	4176.4	4345.0	4452.6	4472.4	4517.2	4484.9	4461.6
40°	12853.8	10893.0	5817.9	3919.8	3944.9	4201.5	4271.5	4192.5	4111.8	4101.0	4068.7
42.5°	13401.0	10959.4	5023.1	3541.3	3701.0	4050.8	4093.8	3928.8	3783.5	3715.3	3686.6
45°	13978.6	10982.7	4282.2	3223.8	3466.0	3916.2	3962.9	3742.2	3537.7	3390.6	3342.2
47.5°	14733.9	11151.3	3706.3	2988.8	3286.6	3826.5	3892.9	3593.3	3327.8	3117.9	3073.1
50°	15722.4	11485.0	3238.1	2809.4	3170.0	3767.3	3842.7	3448.0	3155.6	2902.6	2857.8
52.5°	16820.3	11791.8	2859.6	2664.1	3056.9	3663.3	3778.1	3344.0	2994.1	2703.5	2655.1
55°	17588.1	11556.8	2554.6	2513.4	2909.8	3514.4	3688.4	3256.1	2762.7	2509.8	2466.7
57.5°	17735.2	10753.1	2323.2	2357.3	2732.2	3327.8	3550.3	3060.5	2637.1	2425.5	2380.6
60°	17333.4	9633.6	2151.0	2213.8	2542.1	3092.8	3291.9	2922.4	2516.9	2335.8	2298.1
62.5°	16323.4	8487.3	2023.6	2084.6	2364.5	2854.2	3130.5	2777.1	2395.0	2233.5	2195.8
65°	14283.6	7125.7	1901.6	1969.8	2199.4	2647.9	2985.2	2642.5	2274.8	2151.0	2115.1
67.5°	10781.8	5337.1	1786.8	1847.8	2052.3	2468.5	2827.3	2509.8	2158.2	2079.2	2036.2
70°	6348.9	3342.2	1655.8	1720.4	1898.0	2281.9	2658.7	2364.5	2012.8	1977.0	1921.3
72.5°	2954.7	2011.0	1506.9	1569.7	1704.3	2032.6	2441.6	2174.3	1840.6	1761.7	1686.3
75°	1763.5	1471.1	1331.1	1386.7	1481.8	1767.1	2168.9	1980.5	1677.4	1573.3	1494.4
77.5°	1318.6	1124.8	1137.4	1196.6	1273.7	1546.4	1921.3	1828.1	1551.8	1471.1	1417.2
80°	949.0	853.9	927.5	992.1	1072.8	1406.5	1840.6	1689.9	1402.9	1295.2	1245.0
82.5°	633.3	613.5	697.9	764.2	843.2	1230.7	1729.4	1480.0	1198.4	1062.0	950.8
85°	349.8	369.6	470.0	498.7	566.9	866.5	1417.2	1189.4	902.4	726.6	694.3
87.5°	145.3	170.4	253.0	244.0	301.4	516.7	932.9	717.6	574.1	428.8	333.7
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)