

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: P317757

Luminaire Tested: **GAN-SA3B-740-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317757
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-SA3B-740-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17838 lumens
Efficiency: N/A
Efficacy: 143.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

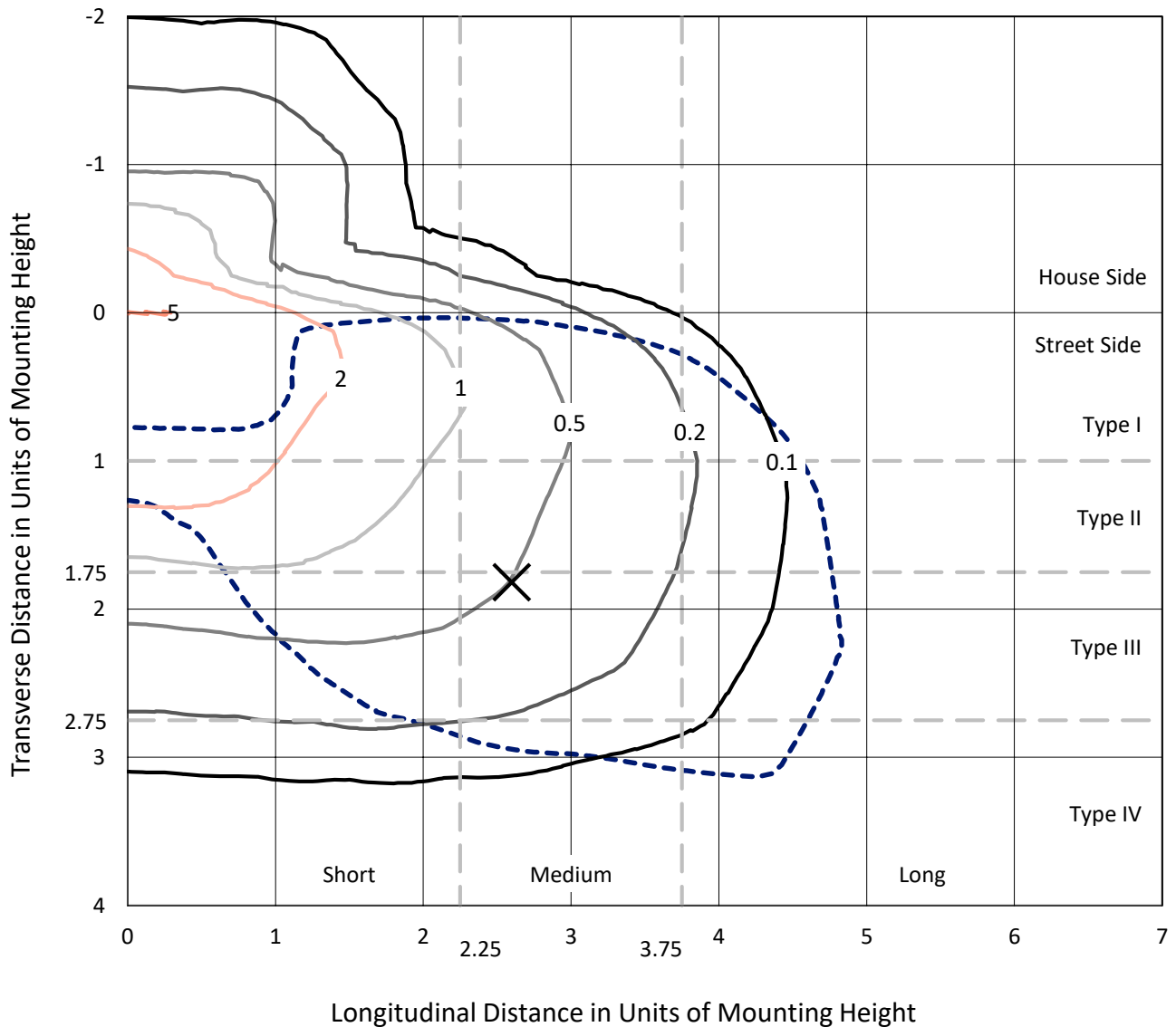
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

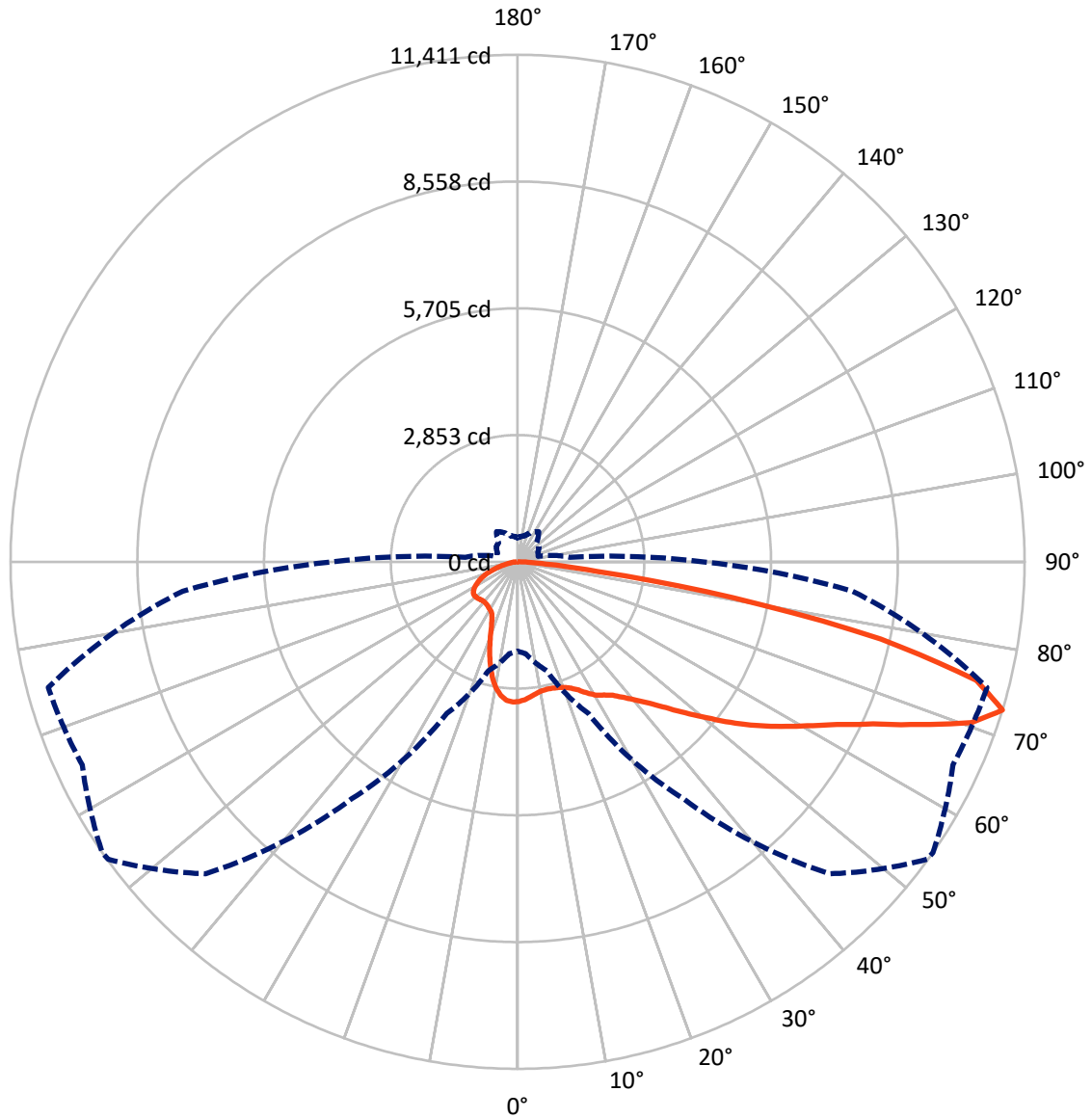
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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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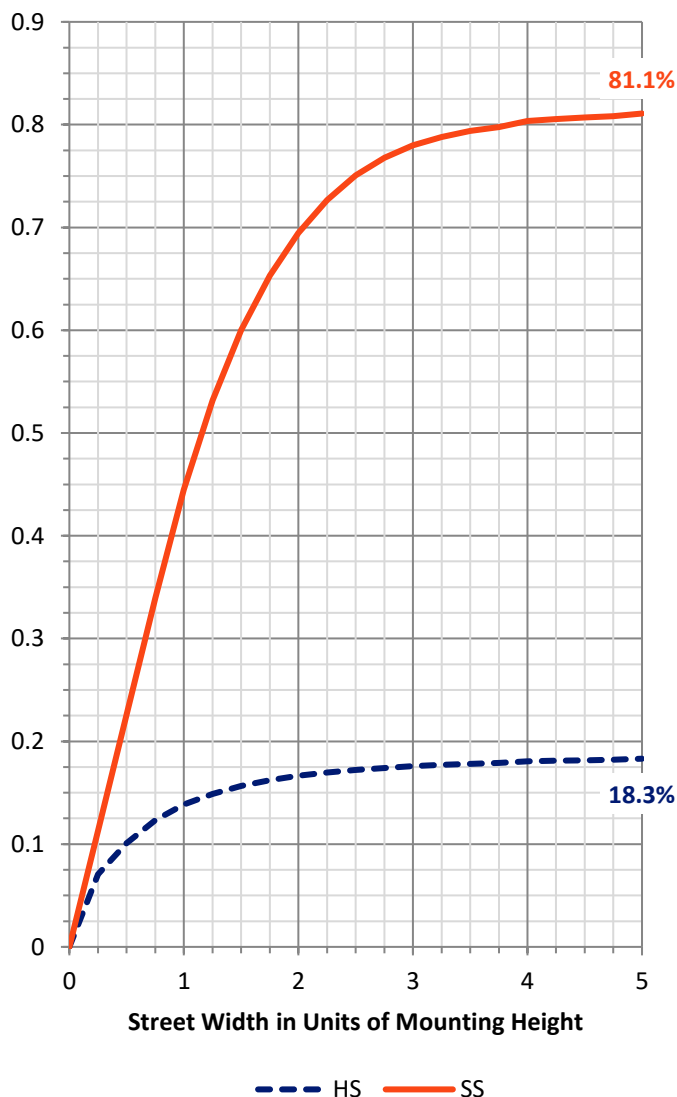
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3315.5	0.0	3315.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	14522.5	0.0	14522.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	17838.0	0.0	17838.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.7	1.6
10°-20°	758.0	4.2
20°-30°	1249.7	7.0
30°-40°	1848.6	10.4
40°-50°	2580.3	14.5
50°-60°	3359.6	18.8
60°-70°	4128.9	23.1
70°-80°	3236.5	18.1
80°-90°	391.7	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°	17838.0	100.0
0°-180°	17838.0	100.0

Coefficient of Utilization

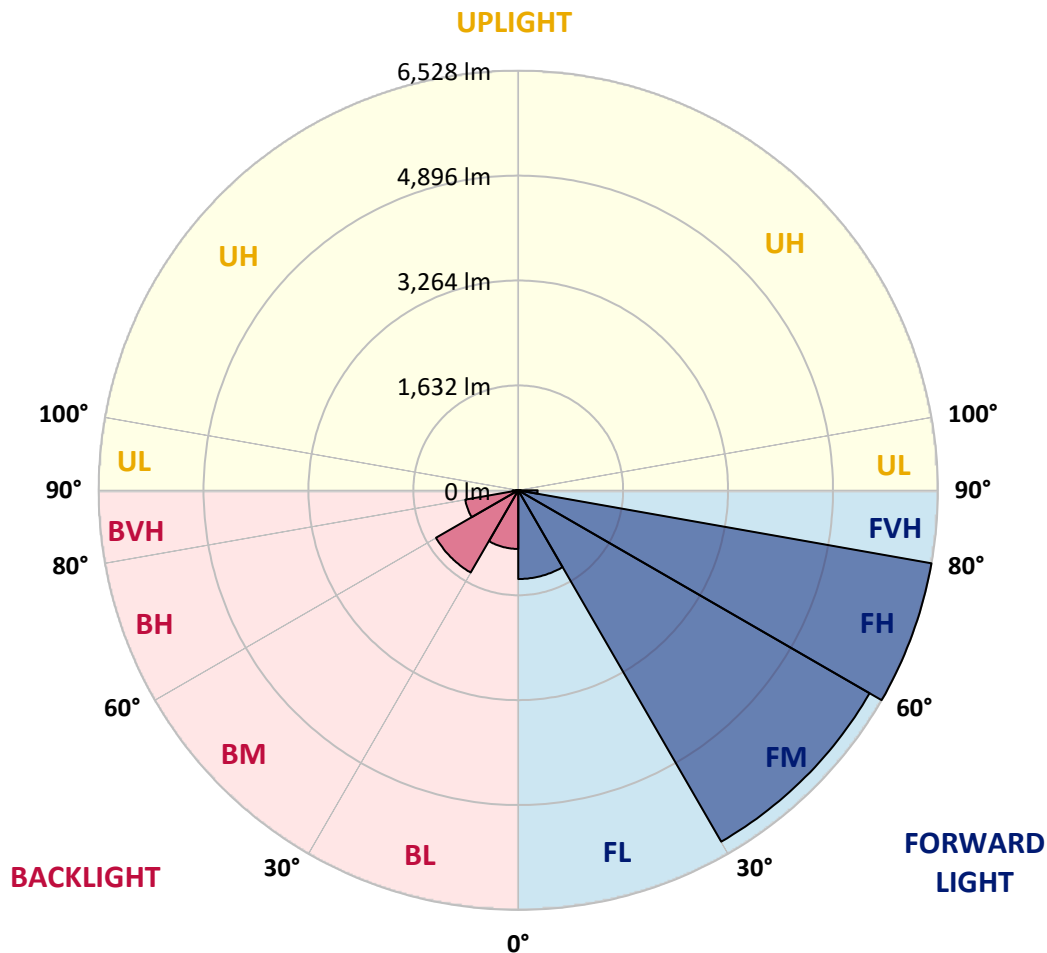


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1380.1	7.7			
FM (30°-60°)	6311.4	35.4			
FH (60°-80°)	6528.1	36.6			G3/7500
FVH (80°-90°)	302.8	1.7			G3/500
BL (0°-30°)	912.2	5.1	B2/1000		
BM (30°-60°)	1477.1	8.3	B2/2500		
BH (60°-80°)	837.3	4.7	B2/1000		G2/1000
BVH (80°-90°)	88.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3146.2	3146.2	3146.2	3146.2	3146.2	3146.2	3146.2	3146.2	3146.2	3146.2	3146.2
2.5°	3043.8	3036.6	3045.6	3058.3	3072.1	3090.8	3101.7	3106.5	3125.2	3132.4	3148.0
5°	2902.8	2899.2	2914.3	2936.0	2966.7	3010.1	3045.0	3051.6	3101.1	3136.0	3167.9
7.5°	2800.4	2800.4	2817.9	2843.8	2878.1	2936.6	2986.0	2995.0	3078.8	3154.1	3213.1
10°	2719.1	2722.1	2742.6	2773.3	2813.7	2875.7	2941.4	2951.6	3072.7	3196.2	3290.2
12.5°	2664.8	2672.1	2690.8	2718.5	2768.5	2843.8	2926.9	2940.8	3085.4	3256.5	3383.0
15°	2699.2	2711.2	2713.0	2724.5	2752.2	2834.1	2935.4	2949.8	3112.5	3318.0	3488.5
17.5°	2849.8	2854.0	2835.4	2811.3	2798.0	2850.4	2960.7	2975.7	3145.0	3378.8	3589.7
20°	3078.8	3076.3	3036.0	2970.9	2903.4	2911.9	3002.2	3017.9	3189.0	3432.4	3690.9
22.5°	3368.0	3359.5	3297.5	3177.6	3062.5	3014.3	3075.1	3088.4	3255.3	3508.9	3799.3
25°	3718.6	3699.9	3618.0	3457.1	3287.8	3163.7	3184.8	3197.5	3351.7	3594.5	3898.8
27.5°	4088.5	4069.9	3965.6	3771.0	3545.7	3352.3	3336.0	3346.9	3461.3	3657.8	3972.3
30°	4475.3	4455.5	4360.3	4142.2	3819.2	3547.5	3477.0	3481.2	3538.5	3692.1	4032.5
32.5°	4864.0	4845.3	4738.6	4485.6	4116.3	3757.2	3578.8	3573.4	3584.9	3727.6	4100.6
35°	5258.0	5265.2	5140.5	4860.3	4445.2	3990.3	3699.3	3687.9	3662.6	3800.6	4197.0
37.5°	5679.7	5674.9	5513.5	5220.6	4789.2	4243.4	3872.2	3870.4	3783.1	3938.5	4348.2
40°	5961.7	5964.7	5866.5	5589.4	5136.9	4523.5	4094.0	4089.7	3975.3	4145.2	4546.4
42.5°	6072.0	6091.8	6117.2	5941.2	5500.8	4848.3	4358.5	4352.4	4243.4	4441.6	4779.6
45°	6079.8	6119.6	6276.2	6253.9	5869.5	5220.0	4696.5	4679.6	4601.3	4835.6	5058.0
47.5°	6012.3	6053.3	6313.6	6440.1	6199.1	5612.3	5091.7	5078.4	5011.0	5328.5	5359.2
50°	5864.7	5903.9	6236.4	6531.1	6470.2	5989.4	5547.2	5512.2	5476.1	5897.8	5703.8
52.5°	5588.2	5663.5	6133.4	6552.8	6632.3	6324.4	6026.2	6003.3	6023.2	6498.5	6049.1
55°	4933.2	5017.6	5867.7	6534.7	6752.2	6605.8	6505.2	6504.0	6607.0	7128.7	6419.6
57.5°	4566.3	4626.0	5326.7	6504.0	6894.4	6885.3	6979.3	6990.8	7191.4	7815.0	6807.6
60°	4359.1	4421.7	5052.5	6390.1	7114.9	7246.8	7463.1	7486.0	7785.5	8574.7	7274.5
62.5°	4170.5	4239.2	4882.6	6158.1	7374.6	7763.8	8042.7	8063.2	8414.5	9355.6	7725.8
65°	3848.1	3925.9	4633.8	6005.7	7610.7	8438.0	8779.6	8793.4	9136.9	10173.8	8071.0
67.5°	3392.7	3463.8	4164.5	5668.9	7785.5	9256.8	9759.2	9767.1	9853.2	10751.6	8247.6
70°	2860.7	2887.8	3495.7	4973.6	7578.8	10022.5	10832.9	10834.7	10506.3	11121.5	8218.7
72.5°	2009.9	2073.8	2537.7	3765.0	6513.0	9929.2	11390.2	11410.7	10810.0	10934.7	7561.9
75°	1232.7	1300.2	1591.8	2281.7	4131.9	7809.0	10523.8	10666.0	10240.6	9749.6	6177.4
77.5°	824.2	849.5	1038.7	1330.3	1872.0	4492.8	8090.9	8358.4	8507.3	7110.1	3950.6
80°	459.7	507.9	688.7	826.6	832.7	1785.2	4851.3	4914.0	4733.2	2831.1	1218.9
82.5°	243.4	269.9	459.7	485.6	454.3	597.7	1808.1	1809.9	1512.3	759.1	362.1
85°	188.6	210.9	315.1	296.4	232.0	265.1	596.5	629.0	514.5	310.9	118.1
87.5°	94.0	116.9	213.9	188.0	91.0	75.9	213.3	227.7	203.0	121.7	42.8
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°	3146.2	3146.2	3146.2	3146.2	3146.2	3146.2	3146.2	3146.2	3146.2	3146.2	3146.2
2.5°	3154.1	3159.5	3166.1	3158.9	3156.5	3146.8	3130.6	3127.0	3118.5	3119.1	3123.9
5°	3181.8	3190.8	3187.2	3159.5	3126.4	3080.0	3031.8	2990.8	2963.7	2961.9	2960.1
7.5°	3234.8	3240.8	3212.5	3133.6	3040.8	2933.6	2832.3	2743.8	2690.1	2676.9	2673.9
10°	3318.0	3316.7	3239.0	3080.0	2895.0	2703.4	2540.7	2417.8	2346.1	2325.0	2319.6
12.5°	3410.7	3396.9	3248.1	2982.4	2688.9	2423.2	2217.2	2080.4	2005.7	1981.6	1975.6
15°	3506.5	3472.2	3225.8	2836.6	2435.9	2121.4	1905.1	1778.6	1738.2	1724.9	1722.5
17.5°	3595.7	3529.4	3161.9	2638.9	2147.3	1820.7	1652.0	1601.4	1611.1	1628.5	1629.2
20°	3683.1	3568.0	3059.5	2389.5	1843.0	1573.1	1515.9	1553.2	1599.0	1634.6	1639.4
22.5°	3769.2	3595.1	2927.5	2101.5	1570.7	1433.9	1474.3	1542.4	1594.8	1633.4	1640.0
25°	3841.5	3601.7	2745.6	1794.2	1381.5	1381.5	1454.4	1518.9	1570.7	1608.7	1615.3
27.5°	3868.0	3557.1	2488.9	1509.9	1286.3	1357.4	1426.7	1480.3	1524.3	1564.7	1571.9
30°	3878.3	3474.6	2192.5	1281.5	1247.2	1331.5	1389.4	1435.1	1476.7	1514.7	1521.3
32.5°	3880.1	3375.2	1878.0	1152.0	1220.1	1304.4	1343.0	1383.3	1427.9	1443.0	1445.4
35°	3891.5	3257.7	1546.6	1085.7	1194.8	1279.1	1309.8	1338.7	1266.4	1271.9	1276.7
37.5°	3924.7	3141.4	1269.5	1048.3	1178.5	1265.8	1302.6	1197.8	1141.1	1127.9	1126.1
40°	3986.7	3017.3	1064.0	1018.2	1172.5	1272.5	1256.2	1118.2	1020.6	947.7	936.9
42.5°	4072.9	2883.6	932.7	998.3	1176.7	1304.4	1191.7	1041.7	879.6	832.7	826.6
45°	4169.9	2743.2	861.6	984.5	1191.1	1329.1	1178.5	939.9	814.0	778.4	775.4
47.5°	4263.9	2571.5	824.8	978.5	1211.0	1309.2	1122.5	908.6	782.6	764.0	765.8
50°	4371.7	2416.6	802.5	971.8	1228.5	1296.6	1059.2	892.3	770.6	793.5	817.6
52.5°	4462.7	2256.4	782.6	958.6	1235.1	1274.3	1042.9	895.3	770.6	814.6	837.5
55°	4570.5	2135.2	759.7	930.9	1222.5	1211.0	1031.5	913.4	779.6	751.9	754.3
57.5°	4709.7	2095.5	734.4	887.5	1180.3	1118.8	1026.1	930.9	774.2	756.7	762.8
60°	4902.5	2137.7	724.2	830.8	1114.6	1046.5	1026.7	921.8	736.3	706.1	706.7
62.5°	5086.3	2184.7	723.6	795.3	1033.9	982.1	1012.8	892.3	717.0	699.5	706.1
65°	5146.5	2137.1	694.7	755.5	942.9	905.0	987.5	861.0	702.5	676.0	674.8
67.5°	5065.8	1989.4	636.2	691.1	838.7	815.2	954.4	823.6	679.6	657.9	654.3
70°	4826.0	1659.9	563.9	606.1	720.0	714.0	901.9	780.2	648.9	630.2	614.5
72.5°	4180.7	1182.7	475.4	504.3	586.2	605.5	829.6	723.6	605.5	565.1	541.0
75°	3433.6	875.4	390.4	396.4	445.2	497.7	730.2	657.3	554.3	485.6	466.9
77.5°	2102.7	535.6	310.9	313.3	319.3	397.0	601.3	583.2	489.2	404.9	391.6
80°	680.8	292.2	224.7	236.2	218.1	291.0	465.1	496.5	419.9	338.6	324.1
82.5°	259.1	170.5	151.8	159.7	151.2	195.2	339.2	397.6	344.0	278.4	226.5
85°	125.3	96.4	89.8	100.6	93.4	100.0	216.9	292.8	260.9	181.4	168.7
87.5°	44.6	42.8	34.3	46.4	39.8	35.5	66.3	147.6	172.3	124.7	111.5
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)