

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: P318407

Luminaire Tested: **GAN-SA3C-740-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318407
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3C-740-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21598 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

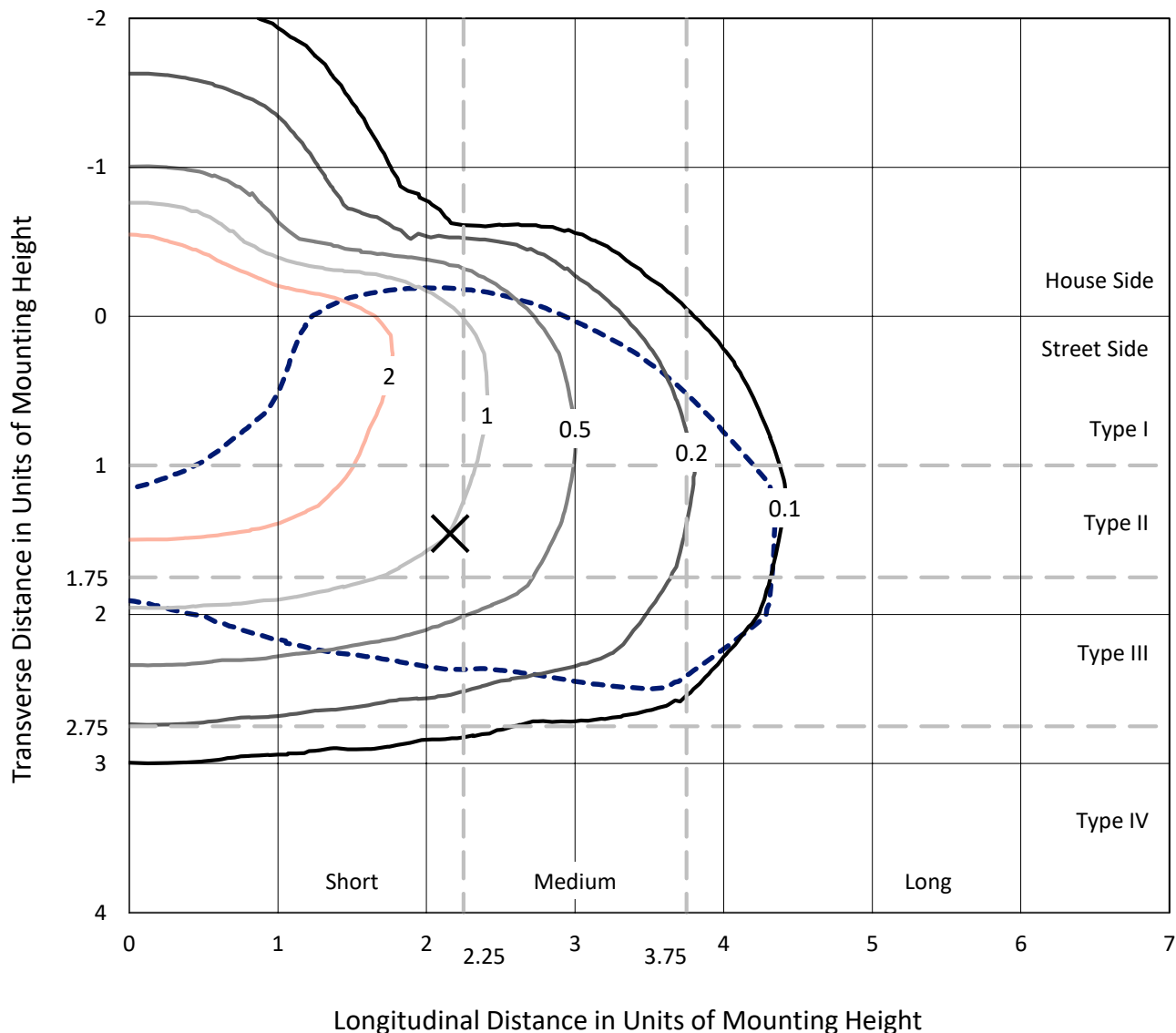
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

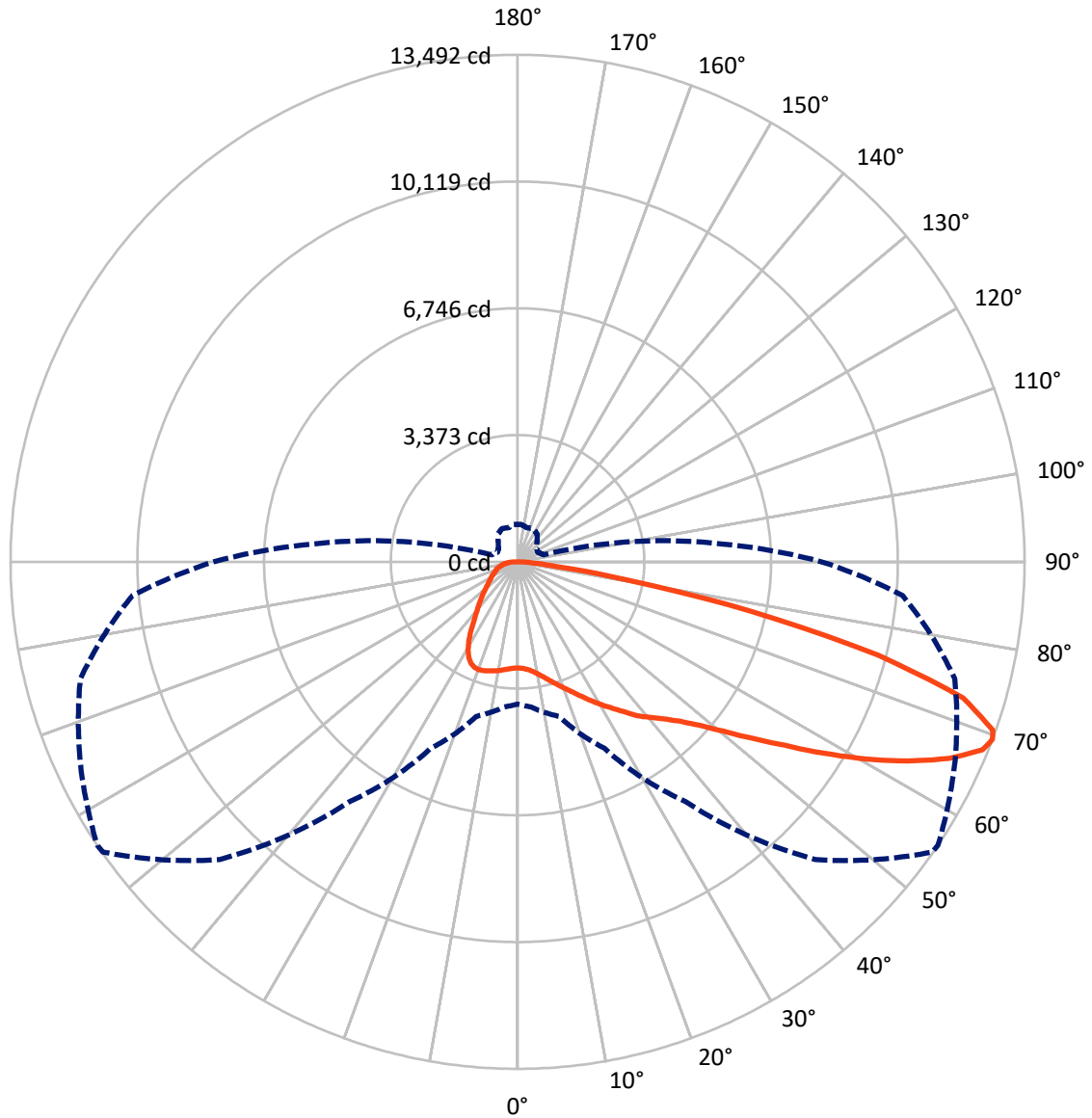
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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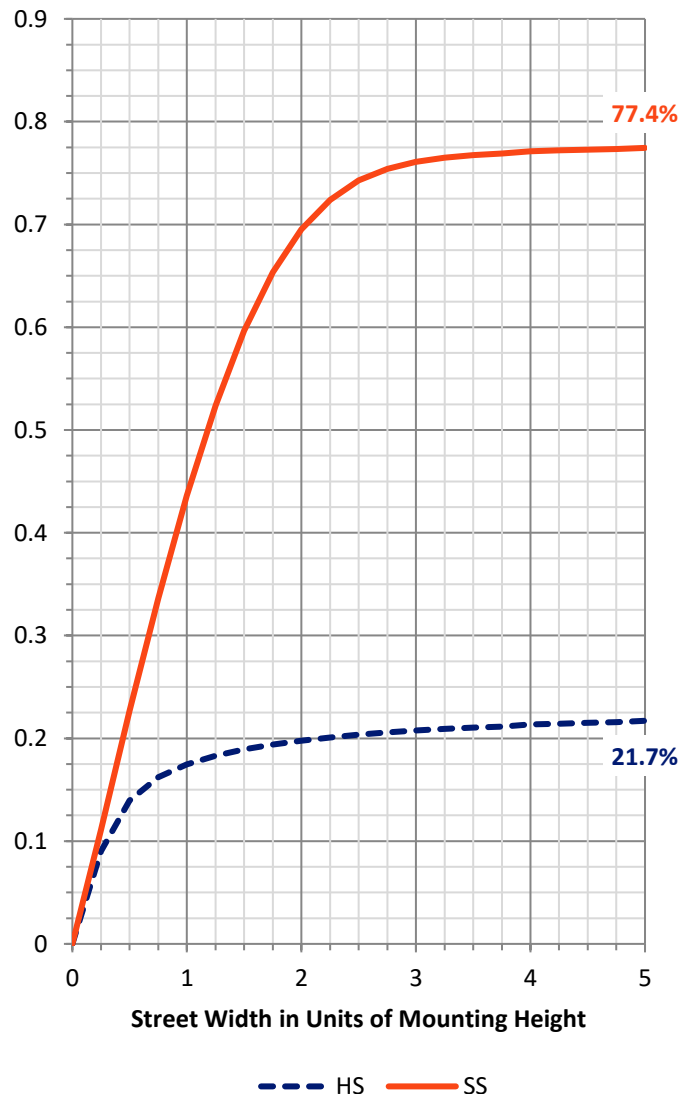
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4809.8	0.0	4809.8
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	16788.2	0.0	16788.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	21598.0	0.0	21598.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.3	1.3
10°-20°	891.8	4.1
20°-30°	1556.7	7.2
30°-40°	2236.1	10.4
40°-50°	3094.7	14.3
50°-60°	4534.1	21.0
60°-70°	5527.9	25.6
70°-80°	3056.2	14.2
80°-90°	423.3	2.0
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°	21598.0	100.0
0°-180°	21598.0	100.0

Coefficient of Utilization

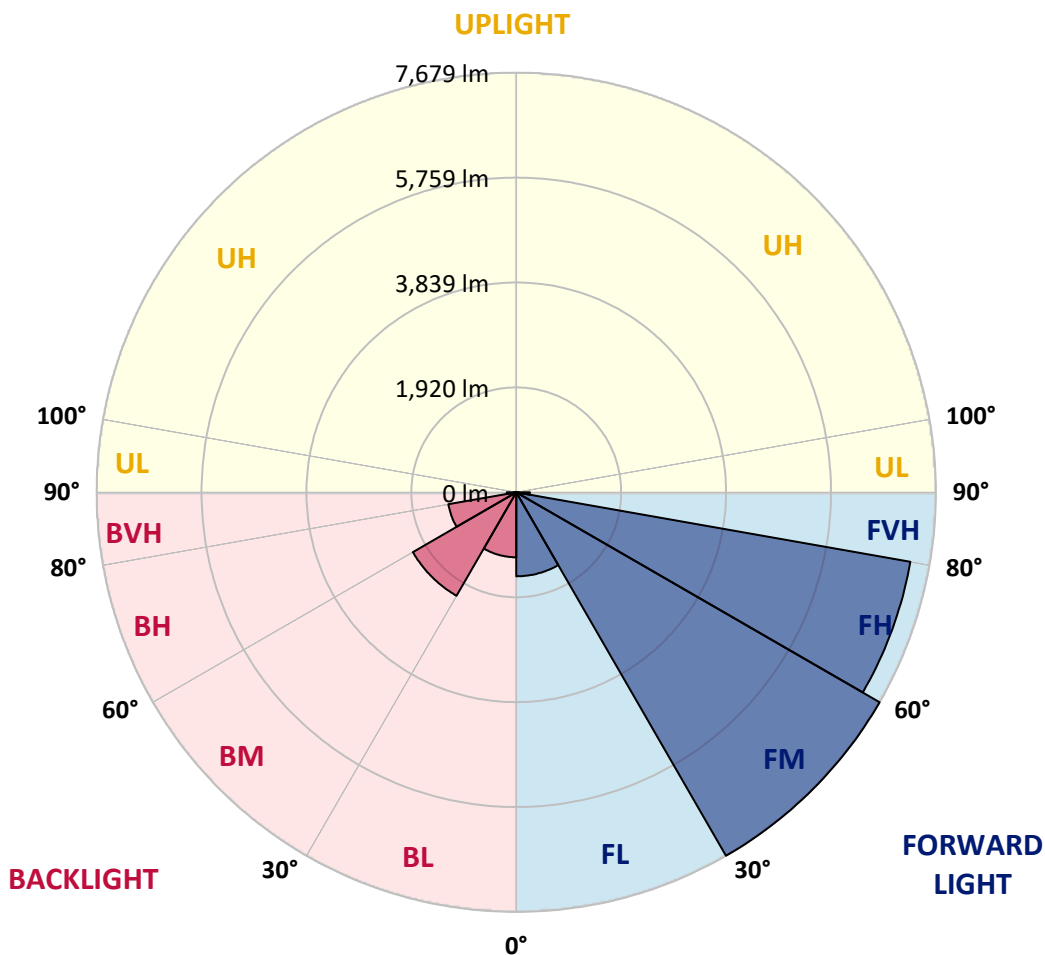


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1537.1	7.1			
FM (30°-60°)	7678.9	35.6			
FH (60°-80°)	7322.8	33.9			G3/7500
FVH (80°-90°)	249.3	1.2			G3/500
BL (0°-30°)	1188.6	5.5	B3/2500		
BM (30°-60°)	2186.0	10.1	B2/2500		
BH (60°-80°)	1261.3	5.8	B3/2500		G3/2500
BVH (80°-90°)	174.0	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2823.6	2823.6	2823.6	2823.6	2823.6	2823.6	2823.6	2823.6	2823.6	2823.6	2823.6
2.5°	2841.5	2844.4	2842.2	2848.2	2841.5	2845.9	2842.2	2842.2	2840.0	2833.3	2825.8
5°	2886.1	2892.1	2888.3	2894.3	2886.1	2887.6	2880.9	2880.9	2874.2	2860.1	2845.2
7.5°	2956.1	2962.7	2959.8	2965.7	2954.6	2954.6	2945.6	2944.9	2931.5	2908.4	2891.3
10°	3039.4	3048.3	3045.3	3054.3	3045.3	3048.3	3039.4	3039.4	3021.5	2988.8	2967.2
12.5°	3160.7	3171.8	3163.6	3162.9	3159.2	3165.1	3157.7	3156.2	3139.8	3095.2	3065.4
15°	3322.9	3334.8	3317.7	3316.2	3295.3	3293.1	3293.1	3290.9	3280.5	3226.9	3177.8
17.5°	3509.6	3513.3	3498.5	3474.6	3447.9	3430.7	3428.5	3434.5	3434.5	3372.0	3293.8
20°	3692.6	3699.3	3687.4	3660.7	3626.4	3601.1	3583.3	3595.2	3594.4	3520.0	3409.2
22.5°	3892.0	3907.7	3889.8	3855.6	3815.4	3787.1	3755.9	3766.3	3767.0	3675.5	3522.3
25°	4150.2	4136.1	4124.9	4076.6	4019.3	3990.3	3961.2	3971.7	3968.7	3842.9	3639.1
27.5°	4378.6	4381.6	4366.7	4315.4	4249.2	4185.2	4183.7	4190.4	4179.2	4017.0	3749.2
30°	4644.3	4645.8	4624.9	4578.8	4506.6	4424.0	4404.7	4415.8	4392.0	4182.2	3865.3
32.5°	4908.4	4915.8	4892.8	4837.0	4778.9	4678.5	4639.8	4647.2	4587.7	4351.1	3985.1
35°	5139.8	5150.2	5142.8	5105.6	5042.3	4956.0	4909.9	4905.4	4831.8	4558.0	4143.5
37.5°	5375.7	5385.3	5377.1	5345.9	5320.6	5229.1	5204.5	5204.5	5076.6	4769.3	4345.2
40°	5618.2	5633.1	5623.4	5580.3	5558.7	5517.0	5458.2	5444.1	5305.7	5023.0	4674.0
42.5°	5843.7	5863.0	5901.7	5876.4	5832.5	5838.4	5720.1	5712.7	5611.5	5398.0	5087.0
45°	6163.6	6191.9	6257.3	6238.0	6229.1	6196.3	6055.7	6049.0	6010.3	5902.4	5599.6
47.5°	6512.5	6551.2	6669.5	6673.3	6769.2	6707.5	6516.3	6493.2	6502.1	6506.6	6225.3
50°	6834.0	6876.4	7070.6	7162.1	7388.3	7401.7	7095.9	7075.0	7110.0	7212.7	6954.5
52.5°	7090.7	7144.2	7386.8	7669.5	8057.2	8167.3	7809.4	7793.8	7819.8	7996.9	7778.9
55°	7278.9	7336.9	7601.1	8115.9	8735.0	8929.2	8630.8	8615.9	8632.3	8857.7	8675.4
57.5°	7322.8	7336.9	7720.1	8416.5	9307.1	9773.6	9636.0	9606.2	9525.9	9722.3	9665.0
60°	7116.7	7173.2	7621.9	8522.2	9749.8	10606.2	10686.6	10649.4	10423.9	10584.6	10538.5
62.5°	6698.5	6799.7	7255.1	8361.5	9923.2	11286.3	11717.1	11672.4	11284.0	11388.2	11166.5
65°	6015.5	6058.7	6537.1	7807.2	9703.0	11721.5	12635.9	12613.6	12124.8	11961.9	11282.5
67.5°	4793.8	4874.9	5281.2	6648.7	8801.9	11670.2	13346.5	13344.3	12673.9	12174.6	10871.1
69°	3787.1	3871.2	4258.1	5476.8	7788.6	11200.7	13465.5	13491.6	12828.7	12045.2	10283.3
70°	3019.3	3116.8	3382.4	4613.0	6889.0	10581.7	13366.6	13413.5	12798.9	11831.6	9740.9
72.5°	1284.9	1363.8	1552.8	2377.9	4198.6	7901.7	12221.5	12398.6	12109.2	10828.7	8050.5
75°	561.0	585.6	671.1	969.5	1863.8	4300.5	9574.2	9901.6	10354.0	9153.1	5996.9
77.5°	410.7	421.1	468.0	569.2	836.3	1624.2	6156.9	6347.4	7467.1	6660.6	3678.5
80°	317.7	325.1	361.6	418.1	546.1	657.0	2808.0	2971.7	4198.6	3421.1	1532.0
82.5°	253.0	258.2	283.5	308.0	377.2	398.1	932.3	1034.2	1549.8	944.9	405.5
85°	235.1	241.1	250.0	224.7	241.8	233.6	403.3	421.9	468.0	371.3	169.6
87.5°	106.4	125.7	247.8	174.8	128.7	102.7	165.2	172.6	194.2	194.9	75.1
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°	2823.6	2823.6	2823.6	2823.6	2823.6	2823.6	2823.6	2823.6	2823.6	2823.6	2823.6
2.5°	2830.3	2828.1	2831.8	2822.9	2834.0	2833.3	2829.6	2831.1	2838.5	2837.8	2838.5
5°	2847.4	2845.9	2850.4	2843.7	2857.1	2861.6	2862.3	2869.0	2877.2	2879.4	2879.4
7.5°	2890.6	2890.6	2892.8	2883.9	2892.8	2892.1	2888.3	2895.0	2903.2	2904.0	2903.2
10°	2965.0	2965.7	2962.0	2938.9	2931.5	2911.4	2892.8	2893.6	2904.0	2912.2	2914.4
12.5°	3058.7	3055.8	3039.4	2997.0	2965.7	2924.8	2905.5	2904.7	2915.1	2921.8	2924.1
15°	3165.9	3157.7	3115.3	3046.1	2991.0	2950.8	2919.6	2912.2	2906.2	2898.8	2899.5
17.5°	3267.1	3248.5	3177.8	3081.8	3023.8	2970.2	2909.9	2861.6	2828.1	2808.7	2802.8
20°	3369.7	3333.3	3231.3	3115.3	3041.6	2944.1	2828.1	2729.9	2668.9	2640.6	2635.4
22.5°	3463.5	3404.7	3281.2	3150.2	3027.5	2856.4	2674.1	2531.2	2446.4	2408.4	2411.4
25°	3555.0	3473.2	3333.3	3174.8	2956.1	2701.6	2459.8	2284.2	2186.0	2143.6	2142.1
27.5°	3635.4	3542.4	3389.8	3154.7	2822.9	2481.4	2206.1	2034.9	1953.1	1916.6	1910.7
30°	3727.6	3629.4	3465.0	3078.1	2627.9	2226.9	1958.3	1837.8	1779.7	1743.3	1736.6
32.5°	3840.0	3747.7	3526.7	2938.9	2378.7	1961.3	1764.9	1680.8	1627.9	1587.0	1579.6
35°	4003.7	3904.0	3542.4	2739.5	2104.9	1751.5	1622.7	1536.4	1465.0	1412.2	1407.0
37.5°	4209.0	4099.6	3506.6	2481.4	1839.3	1615.3	1504.4	1398.0	1305.0	1230.6	1218.7
40°	4505.1	4340.0	3407.7	2183.7	1643.6	1510.4	1389.1	1267.8	1152.5	1065.5	1048.3
42.5°	4860.8	4621.9	3255.9	1887.6	1500.0	1404.0	1274.5	1124.2	1014.1	952.4	943.4
45°	5313.2	4915.1	3045.3	1628.7	1358.6	1297.6	1151.0	1012.6	944.2	898.8	891.4
47.5°	5829.5	5244.0	2824.4	1418.1	1238.8	1197.9	1052.1	962.8	908.5	872.8	866.1
50°	6464.2	5615.2	2590.0	1245.5	1118.3	1078.1	1005.2	935.3	892.1	864.6	857.9
52.5°	7179.9	6034.1	2421.1	1109.4	1018.6	989.6	980.6	920.4	885.4	864.6	857.9
55°	7950.8	6460.5	2238.8	994.8	932.3	940.5	964.3	921.9	898.1	872.8	863.1
57.5°	8722.3	6900.9	2035.7	898.1	863.8	904.0	953.1	924.8	904.7	880.2	871.3
60°	9332.4	7179.9	1721.0	817.0	809.5	863.8	926.3	902.5	876.5	877.2	875.7
62.5°	9617.4	7165.1	1373.5	744.8	755.2	809.5	883.2	867.5	846.0	875.0	877.2
65°	9457.4	6807.9	1069.2	679.3	697.2	753.0	838.5	850.4	857.9	913.7	921.1
67.5°	8786.3	6113.0	828.1	622.0	644.3	714.3	843.0	926.3	936.0	994.8	994.0
69°	8092.1	5461.2	719.5	592.3	618.3	723.9	901.0	974.7	938.2	1000.7	991.8
70°	7510.3	4945.6	661.4	572.2	606.4	741.1	939.7	973.9	927.1	980.6	965.8
72.5°	5784.1	3558.0	561.0	535.0	566.2	709.1	950.9	952.4	901.0	911.4	886.1
75°	3967.2	2248.5	489.6	484.4	505.2	639.1	915.2	910.0	833.3	818.4	797.6
77.5°	2187.5	1142.1	415.9	436.0	450.1	566.2	831.8	824.4	761.1	729.9	722.5
80°	843.7	500.0	351.2	387.6	396.6	490.3	729.2	722.5	669.6	629.5	618.3
82.5°	318.4	261.9	290.2	335.6	332.6	404.8	617.5	613.8	562.5	503.7	485.9
85°	147.3	157.0	229.9	276.8	255.2	299.8	494.0	500.7	438.2	368.3	368.3
87.5°	62.5	87.8	162.9	209.1	171.9	202.4	362.3	346.0	317.7	220.2	206.8
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)