

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: P318398

Luminaire Tested: **GAN-SA4B-740-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318398  
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-SA4B-740-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23057 lumens  
Efficiency: N/A  
Efficacy: 134.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

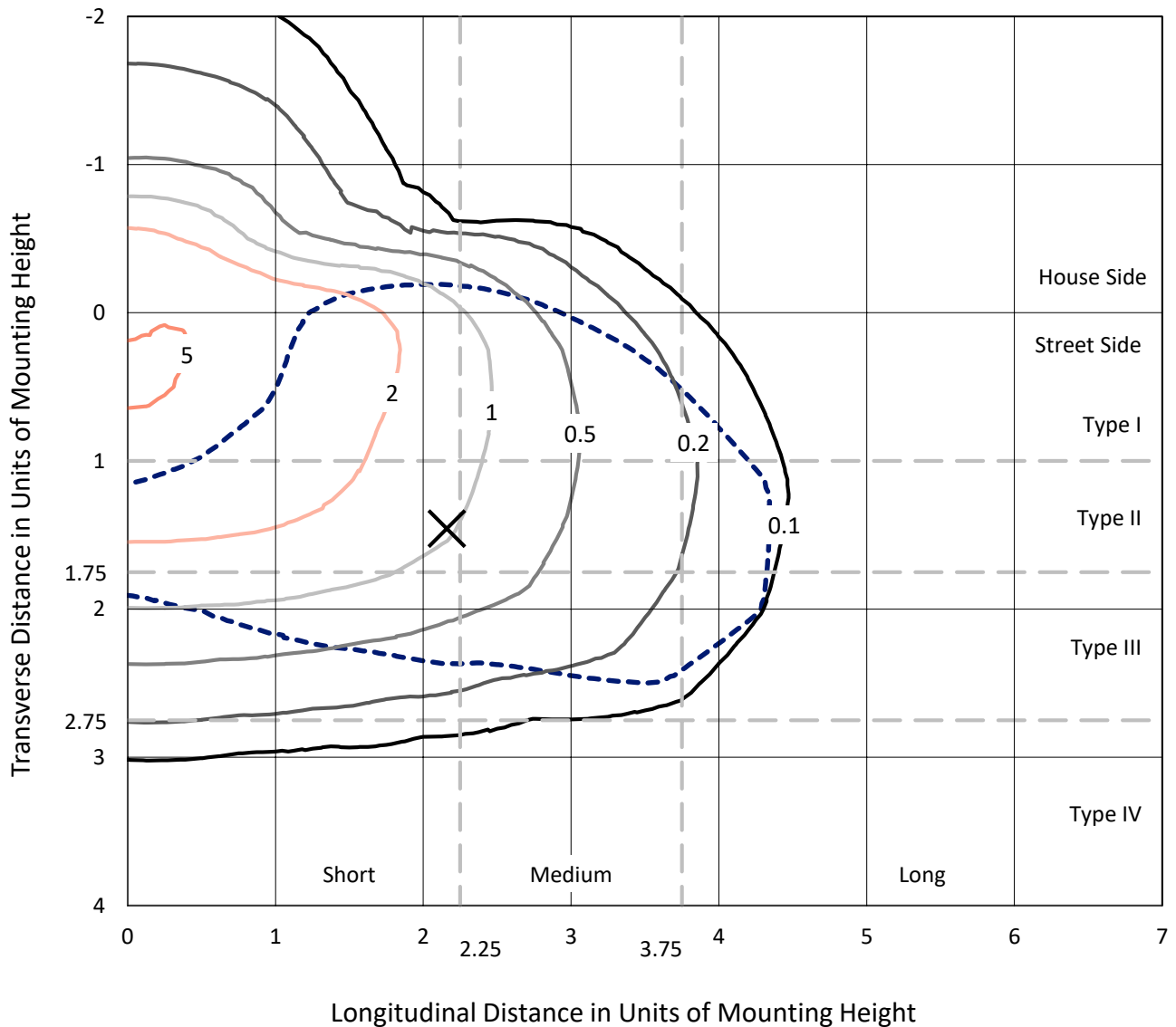
Input Watts (W): 171  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

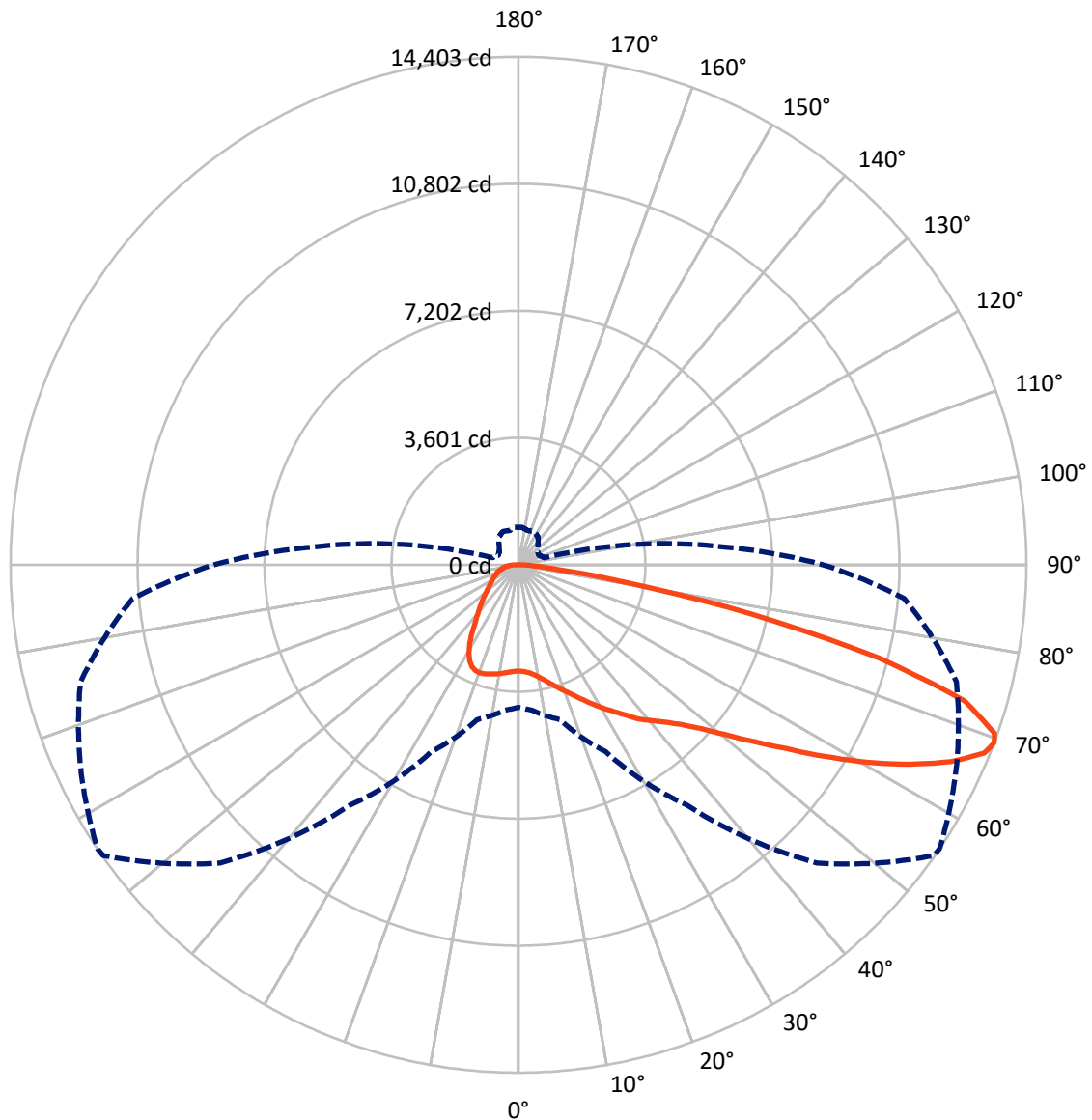
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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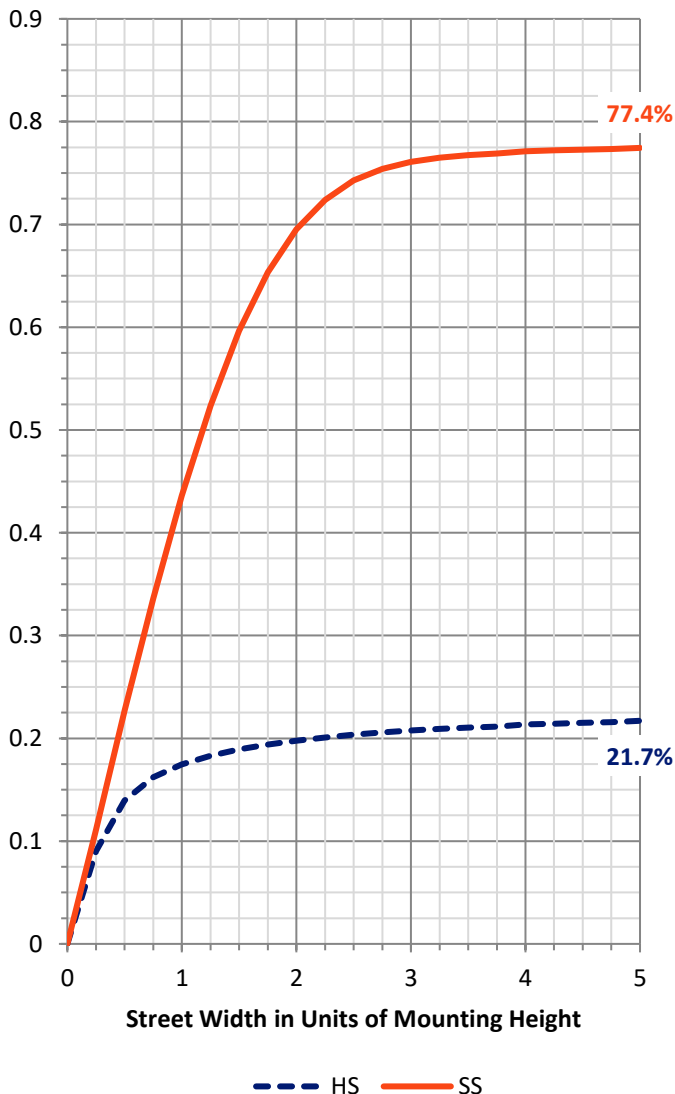
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5134.8	0.0	5134.8
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	17922.2	0.0	17922.2
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	23057.0	0.0	23057.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	296.1	1.3
10°-20°	952.0	4.1
20°-30°	1661.8	7.2
30°-40°	2387.2	10.4
40°-50°	3303.7	14.3
50°-60°	4840.4	21.0
60°-70°	5901.3	25.6
70°-80°	3262.6	14.2
80°-90°	451.9	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°	23057.0	100.0
0°-180°	23057.0	100.0

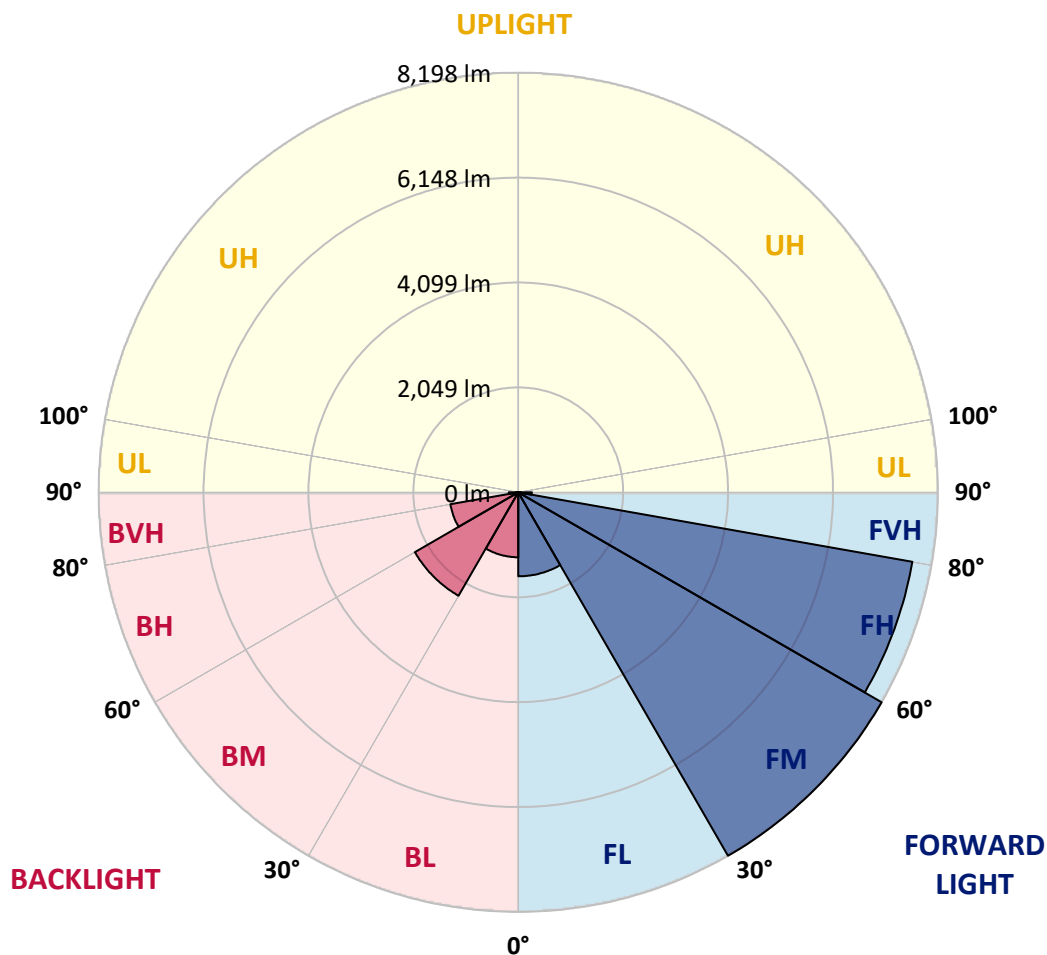


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1641.0	7.1			
FM (30°-60°)	8197.6	35.6			
FH (60°-80°)	7817.5	33.9			G4/12000
FVH (80°-90°)	266.2	1.2			G3/500
BL (0°-30°)	1268.9	5.5	B3/2500		
BM (30°-60°)	2333.6	10.1	B2/2500		
BH (60°-80°)	1346.5	5.8	B3/2500		G3/2500
BVH (80°-90°)	185.7	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-G4**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3014.4	3014.4	3014.4	3014.4	3014.4	3014.4	3014.4	3014.4	3014.4	3014.4	3014.4
2.5°	3033.4	3036.6	3034.2	3040.6	3033.4	3038.2	3034.2	3034.2	3031.8	3024.7	3016.7
5°	3081.1	3087.4	3083.5	3089.8	3081.1	3082.7	3075.5	3075.5	3068.4	3053.3	3037.4
7.5°	3155.7	3162.9	3159.7	3166.1	3154.2	3154.2	3144.6	3143.8	3129.5	3104.9	3086.6
10°	3244.7	3254.2	3251.1	3260.6	3251.1	3254.2	3244.7	3244.7	3225.6	3190.7	3167.7
12.5°	3374.2	3386.1	3377.3	3376.6	3372.6	3378.9	3371.0	3369.4	3351.9	3304.3	3272.5
15°	3547.3	3560.0	3541.8	3540.2	3517.9	3515.6	3515.6	3513.2	3502.1	3444.9	3392.4
17.5°	3746.7	3750.7	3734.8	3709.4	3680.8	3662.5	3660.1	3666.5	3666.5	3599.8	3516.4
20°	3942.1	3949.2	3936.5	3907.9	3871.4	3844.4	3825.3	3838.0	3837.2	3757.8	3639.5
22.5°	4155.0	4171.6	4152.6	4116.0	4073.2	4043.0	4009.6	4020.7	4021.5	3923.8	3760.2
25°	4430.6	4415.5	4403.6	4352.0	4290.8	4259.8	4228.8	4240.0	4236.8	4102.5	3884.9
27.5°	4674.4	4677.6	4661.7	4606.9	4536.2	4467.9	4466.3	4473.5	4461.6	4288.4	4002.5
30°	4958.0	4959.6	4937.3	4888.1	4811.1	4722.9	4702.2	4714.2	4688.7	4464.7	4126.4
32.5°	5240.0	5247.9	5223.3	5163.7	5101.8	4994.5	4953.2	4961.2	4897.6	4645.0	4254.3
35°	5487.0	5498.1	5490.2	5450.5	5382.9	5290.8	5241.6	5236.8	5158.2	4865.9	4423.4
37.5°	5738.8	5749.1	5740.4	5707.0	5680.0	5582.3	5556.1	5556.1	5419.5	5091.4	4638.7
40°	5997.7	6013.6	6003.3	5957.2	5934.2	5889.7	5827.0	5811.9	5664.1	5362.3	4989.8
42.5°	6238.4	6259.1	6300.4	6273.4	6226.5	6232.8	6106.6	6098.6	5990.6	5762.6	5430.6
45°	6580.0	6610.1	6680.0	6659.4	6649.9	6614.9	6464.8	6457.6	6416.3	6301.2	5977.9
47.5°	6952.5	6993.8	7120.1	7124.0	7226.5	7160.6	6956.4	6931.8	6941.4	6946.1	6645.9
50°	7295.6	7340.9	7548.2	7645.9	7887.4	7901.7	7575.2	7553.0	7590.3	7699.9	7424.3
52.5°	7569.6	7626.8	7885.8	8187.6	8601.4	8719.0	8336.9	8320.3	8348.1	8537.1	8304.4
55°	7770.6	7832.6	8114.5	8664.2	9325.0	9532.4	9213.8	9198.0	9215.4	9456.1	9261.5
57.5°	7817.5	7832.6	8241.6	8985.1	9935.9	10433.9	10286.9	10255.2	10169.4	10379.1	10317.9
60°	7597.4	7657.8	8136.8	9097.9	10408.5	11322.7	11408.5	11368.8	11128.1	11299.7	11250.4
62.5°	7151.1	7259.1	7745.2	8926.3	10593.5	12048.7	12508.6	12460.9	12046.3	12157.5	11920.8
65°	6421.9	6468.0	6978.7	8334.6	10358.4	12513.3	13489.5	13465.7	12943.9	12769.9	12044.7
67.5°	5117.7	5204.2	5637.9	7097.8	9396.5	12458.5	14248.1	14245.7	13530.0	12997.1	11605.5
69°	4043.0	4132.7	4545.8	5846.8	8314.7	11957.3	14375.2	14403.0	13695.3	12858.9	10978.0
70°	3223.3	3327.3	3610.9	4924.6	7354.4	11296.5	14269.5	14319.6	13663.5	12630.9	10398.9
72.5°	1371.8	1455.9	1657.7	2538.6	4482.2	8435.4	13047.1	13236.2	12927.2	11560.2	8594.3
75°	598.9	625.1	716.5	1035.0	1989.7	4591.0	10221.0	10570.5	11053.4	9771.4	6402.0
77.5°	438.5	449.6	499.6	607.6	892.8	1733.9	6572.8	6776.1	7971.6	7110.5	3927.0
80°	339.2	347.1	386.0	446.4	583.0	701.4	2997.7	3172.4	4482.2	3652.2	1635.5
82.5°	270.1	275.6	302.6	328.8	402.7	424.9	995.3	1104.1	1654.5	1008.8	432.9
85°	251.0	257.4	266.9	239.9	258.1	249.4	430.5	450.4	499.6	396.4	181.1
87.5°	113.6	134.2	264.5	186.7	137.4	109.6	176.3	184.3	207.3	208.1	80.2
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°	3014.4	3014.4	3014.4	3014.4	3014.4	3014.4	3014.4	3014.4	3014.4	3014.4	3014.4
2.5°	3021.5	3019.1	3023.1	3013.6	3025.5	3024.7	3020.7	3022.3	3030.2	3029.4	3030.2
5°	3039.8	3038.2	3043.0	3035.8	3050.1	3054.9	3055.7	3062.8	3071.5	3073.9	3073.9
7.5°	3085.8	3085.8	3088.2	3078.7	3088.2	3087.4	3083.5	3090.6	3099.3	3100.1	3099.3
10°	3165.3	3166.1	3162.1	3137.5	3129.5	3108.1	3088.2	3089.0	3100.1	3108.9	3111.3
12.5°	3265.4	3262.2	3244.7	3199.4	3166.1	3122.4	3101.7	3100.9	3112.1	3119.2	3121.6
15°	3379.7	3371.0	3325.7	3251.9	3193.1	3150.2	3116.8	3108.9	3102.5	3094.6	3095.4
17.5°	3487.8	3467.9	3392.4	3290.0	3228.0	3170.8	3106.5	3054.9	3019.1	2998.5	2992.1
20°	3597.4	3558.4	3449.6	3325.7	3247.1	3143.0	3019.1	2914.3	2849.1	2819.0	2813.4
22.5°	3697.5	3634.7	3502.8	3363.1	3232.0	3049.3	2854.7	2702.2	2611.6	2571.1	2574.3
25°	3795.1	3707.8	3558.4	3389.3	3155.7	2884.1	2625.9	2438.5	2333.6	2288.4	2286.8
27.5°	3880.9	3781.6	3618.8	3367.8	3013.6	2649.0	2355.1	2172.4	2085.0	2046.1	2039.8
30°	3979.4	3874.6	3699.0	3286.0	2805.5	2377.3	2090.6	1961.9	1900.0	1861.0	1853.9
32.5°	4099.4	4000.9	3765.0	3137.5	2539.4	2093.8	1884.1	1794.3	1737.9	1694.2	1686.3
35°	4274.1	4167.7	3781.6	2924.6	2247.1	1869.8	1732.4	1640.2	1564.0	1507.6	1502.0
37.5°	4493.3	4376.6	3743.5	2649.0	1963.5	1724.4	1606.1	1492.5	1393.2	1313.8	1301.1
40°	4809.5	4633.1	3637.9	2331.3	1754.6	1612.4	1483.0	1353.5	1230.4	1137.4	1119.2
42.5°	5189.1	4934.2	3475.8	2015.1	1601.3	1498.8	1360.6	1200.2	1082.6	1016.7	1007.2
45°	5672.1	5247.1	3251.1	1738.7	1450.4	1385.3	1228.8	1081.0	1008.0	959.5	951.6
47.5°	6223.3	5598.2	3015.1	1513.9	1322.5	1278.8	1123.1	1027.8	969.8	931.7	924.6
50°	6900.8	5994.6	2764.9	1329.7	1193.8	1150.9	1073.1	998.4	952.4	923.0	915.8
52.5°	7665.0	6441.7	2584.6	1184.3	1087.4	1056.4	1046.9	982.5	945.2	923.0	915.8
55°	8487.9	6896.9	2390.0	1062.0	995.3	1004.0	1029.4	984.1	958.7	931.7	921.4
57.5°	9311.5	7367.1	2173.2	958.7	922.2	965.1	1017.5	987.3	965.9	939.7	930.1
60°	9962.9	7665.0	1837.2	872.1	864.2	922.2	988.9	963.5	935.7	936.5	934.9
62.5°	10267.1	7649.1	1466.3	795.1	806.2	864.2	942.8	926.1	903.1	934.1	936.5
65°	10096.3	7267.8	1141.4	725.2	744.3	803.8	895.2	907.9	915.8	975.4	983.3
67.5°	9379.8	6525.9	884.1	664.0	687.9	762.5	899.9	988.9	999.2	1062.0	1061.2
69°	8638.8	5830.1	768.1	632.3	660.1	772.9	961.9	1040.5	1001.6	1068.3	1058.8
70°	8017.6	5279.7	706.1	610.8	647.4	791.1	1003.2	1039.7	989.7	1046.9	1031.0
72.5°	6174.9	3798.3	598.9	571.1	604.5	757.0	1015.1	1016.7	961.9	973.0	946.0
75°	4235.2	2400.4	522.6	517.1	539.3	682.3	977.0	971.4	889.6	873.7	851.5
77.5°	2335.2	1219.2	444.0	465.5	480.5	604.5	888.0	880.1	812.6	779.2	771.3
80°	900.7	533.8	374.9	413.8	423.4	523.4	778.4	771.3	714.9	672.0	660.1
82.5°	340.0	279.6	309.8	358.2	355.1	432.1	659.3	655.3	600.5	537.7	518.7
85°	157.3	167.6	245.4	295.5	272.4	320.1	527.4	534.6	467.8	393.2	393.2
87.5°	66.7	93.7	174.0	223.2	183.5	216.0	386.8	369.3	339.2	235.1	220.8
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)