

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: P317732

Luminaire Tested: **GAN-SA8C-730-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317732  
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-SA8C-730-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 52783 lumens  
Efficiency: N/A  
Efficacy: 118.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5

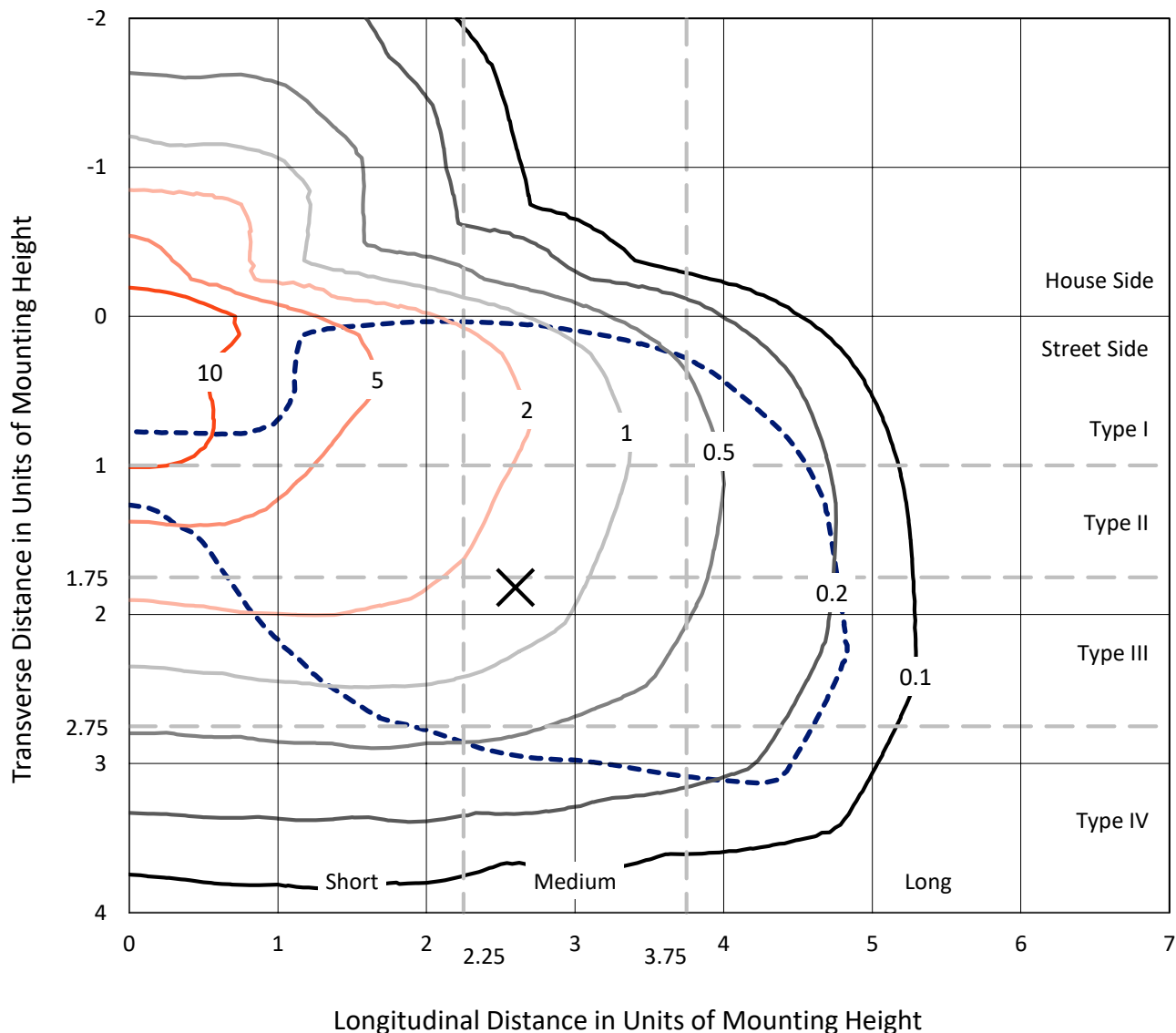
Input Watts (W): 445  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

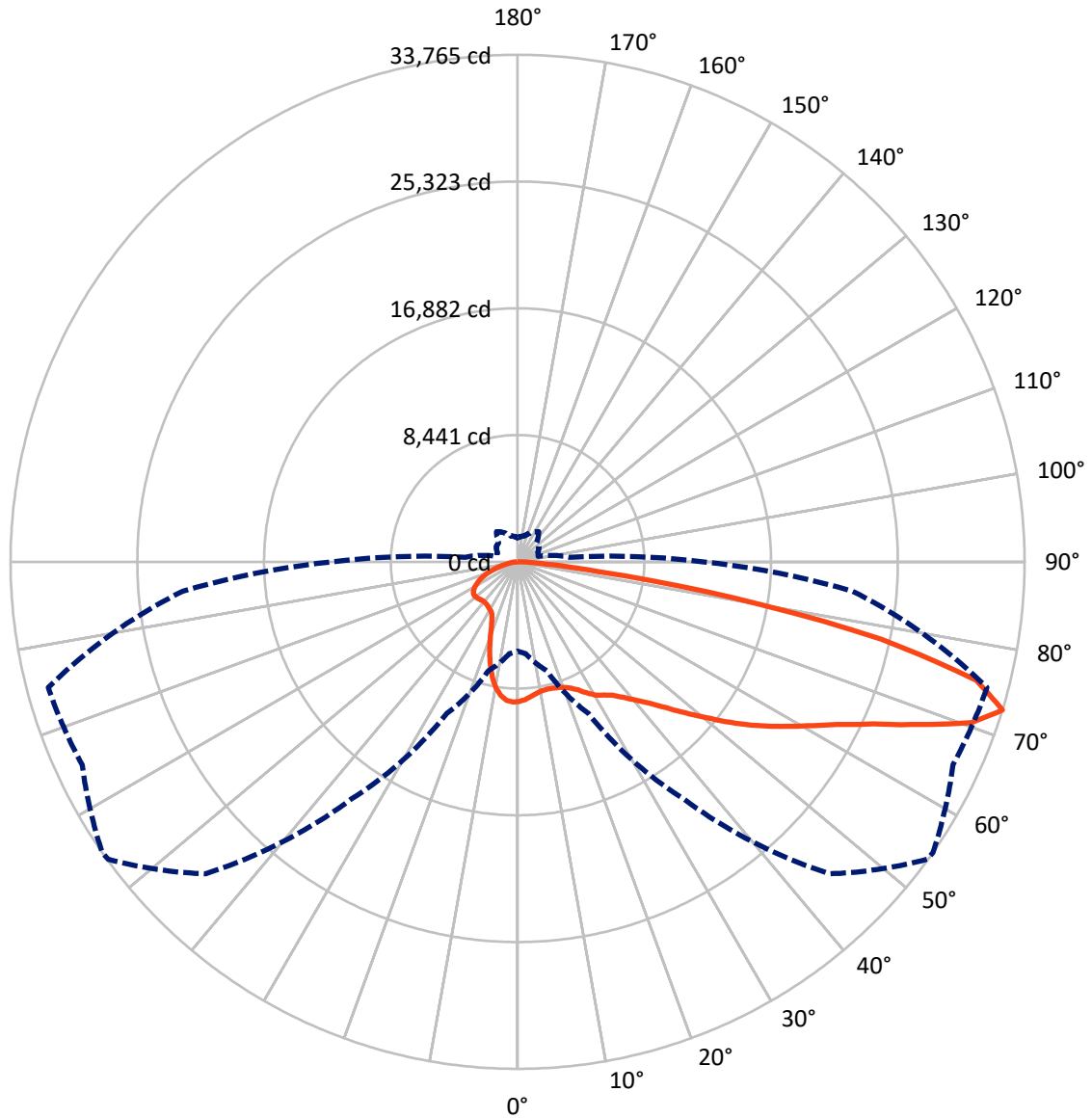
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 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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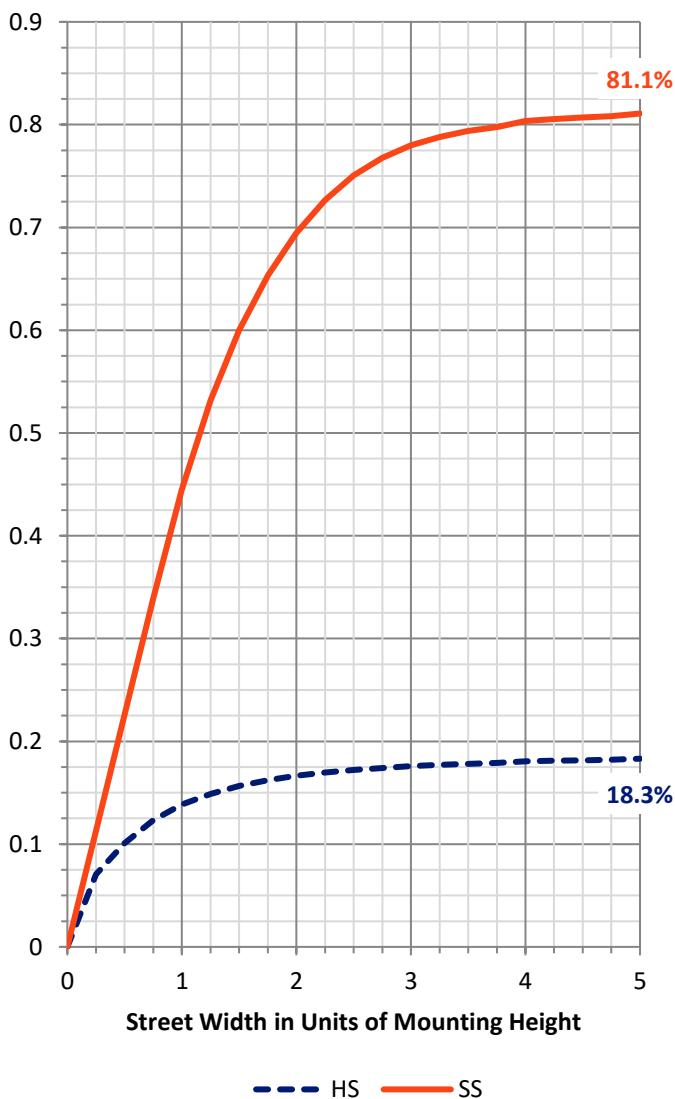
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9810.6	0.0	9810.6
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	42972.4	0.0	42972.4
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	52783.0	0.0	52783.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	842.4	1.6
10°-20°	2242.8	4.2
20°-30°	3697.9	7.0
30°-40°	5470.1	10.4
40°-50°	7635.1	14.5
50°-60°	9941.2	18.8
60°-70°	12217.4	23.1
70°-80°	9577.0	18.1
80°-90°	1158.9	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°	52783.0	100.0
0°-180°	52783.0	100.0

**Coefficient of Utilization**

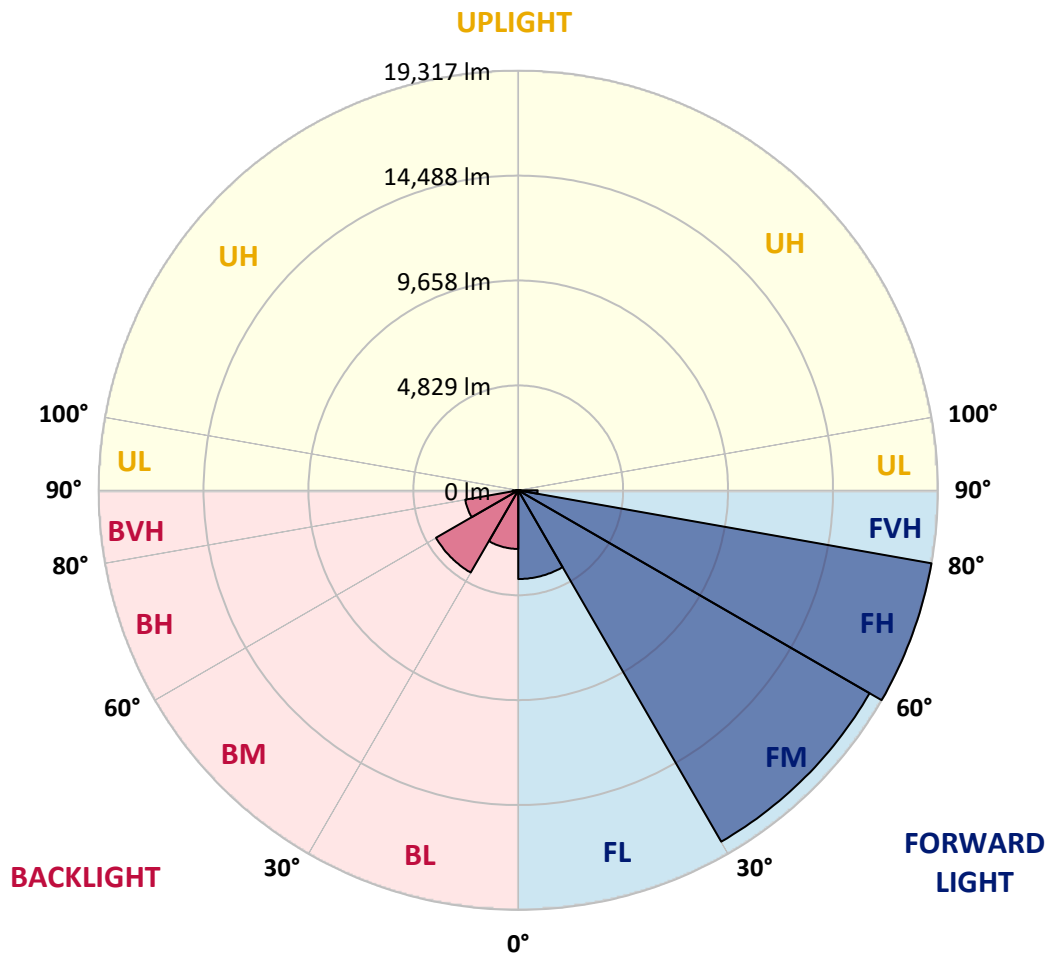


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4083.9	7.7			
FM (30°-60°)	18675.7	35.4			
FH (60°-80°)	19316.8	36.6			G5
FVH (80°-90°)	896.0	1.7			G5
BL (0°-30°)	2699.3	5.1	B4/5000		
BM (30°-60°)	4370.8	8.3	B3/5000		
BH (60°-80°)	2477.6	4.7	B3/2500		G3/2500
BVH (80°-90°)	262.9	0.5			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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9309.8	9309.8	9309.8	9309.8	9309.8	9309.8	9309.8	9309.8	9309.8	9309.8	9309.8
2.5°	9006.7	8985.3	9012.1	9049.5	9090.5	9145.8	9177.9	9192.1	9247.4	9268.8	9315.1
5°	8589.5	8578.8	8623.4	8687.6	8778.5	8906.9	9010.3	9029.9	9176.1	9279.5	9374.0
7.5°	8286.5	8286.5	8338.2	8414.8	8516.4	8689.4	8835.6	8862.3	9110.1	9333.0	9507.7
10°	8045.8	8054.7	8115.3	8206.2	8325.7	8509.3	8703.6	8733.9	9092.3	9457.8	9735.9
12.5°	7885.3	7906.7	7962.0	8044.0	8192.0	8414.8	8660.8	8701.9	9129.7	9636.0	10010.4
15°	7986.9	8022.6	8028.0	8061.8	8143.8	8386.3	8685.8	8728.6	9209.9	9817.9	10322.4
17.5°	8432.6	8445.1	8389.9	8318.5	8279.3	8434.4	8760.7	8805.3	9306.2	9997.9	10621.9
20°	9110.1	9103.0	8983.5	8791.0	8591.3	8616.3	8883.7	8930.0	9436.4	10156.6	10921.4
22.5°	9965.9	9940.9	9757.3	9402.5	9062.0	8919.4	9099.4	9138.6	9632.5	10383.0	11242.3
25°	11003.4	10948.2	10705.7	10229.7	9728.7	9361.5	9423.9	9461.3	9917.7	10636.2	11536.5
27.5°	12098.1	12042.8	11734.4	11158.5	10491.8	9919.5	9871.4	9903.5	10242.2	10823.4	11754.0
30°	13242.6	13183.8	12902.1	12256.8	11301.2	10497.1	10288.5	10301.0	10470.4	10925.0	11932.3
32.5°	14392.6	14337.3	14021.7	13273.0	12180.1	11117.5	10589.8	10573.8	10607.7	11030.2	12133.7
35°	15558.5	15579.9	15210.9	14381.9	13153.5	11807.5	10946.4	10912.5	10837.6	11245.9	12419.0
37.5°	16806.5	16792.2	16314.4	15448.0	14171.5	12556.3	11458.1	11452.7	11194.2	11654.2	12866.5
40°	17640.8	17649.7	17359.1	16539.0	15200.2	13385.3	12114.1	12101.7	11762.9	12265.7	13453.0
42.5°	17967.1	18025.9	18100.8	17580.2	16277.0	14346.2	12896.8	12879.0	12556.3	13142.8	14143.0
45°	17990.2	18107.9	18571.4	18505.5	17368.0	15446.2	13896.9	13847.0	13615.2	14308.8	14966.6
47.5°	17790.6	17911.8	18682.0	19056.4	18343.2	16606.8	15066.4	15027.2	14827.6	15767.1	15858.0
50°	17353.8	17469.7	18453.8	19325.6	19145.5	17722.8	16414.2	16310.8	16203.9	17451.8	16877.8
52.5°	16535.5	16758.3	18148.9	19389.7	19625.1	18714.1	17831.6	17763.8	17822.7	19229.3	17899.3
55°	14597.6	14847.2	17362.7	19336.3	19979.8	19546.6	19248.9	19245.3	19550.2	21094.1	18995.7
57.5°	13511.8	13688.3	15761.7	19245.3	20400.6	20373.8	20652.0	20685.8	21279.5	23124.7	20143.9
60°	12898.6	13084.0	14950.6	18908.4	21053.1	21443.5	22083.6	22151.3	23037.4	25372.8	21525.5
62.5°	12340.5	12543.8	14447.8	18222.0	21821.5	22973.2	23798.6	23859.2	24898.6	27683.3	22860.9
65°	11386.7	11616.7	13711.5	17771.0	22520.3	24968.1	25979.0	26020.0	27036.2	30104.4	23882.4
67.5°	10039.0	10249.3	12322.7	16774.4	23037.4	27391.0	28877.8	28901.0	29155.9	31814.1	24404.8
70°	8464.7	8545.0	10343.8	14717.0	22425.9	29656.9	32054.8	32060.1	31088.5	32908.7	24319.2
72.5°	5947.4	6136.4	7509.2	11140.7	19272.1	29380.6	33703.8	33764.5	31987.0	32356.1	22375.9
75°	3647.6	3847.3	4710.2	6751.5	12226.4	23106.9	31140.2	31560.9	30302.3	28849.3	18279.1
77.5°	2438.9	2513.7	3073.5	3936.4	5539.2	13294.3	23941.2	24732.8	25173.1	21038.8	11689.8
80°	1360.3	1502.9	2037.7	2446.0	2463.8	5282.4	14355.1	14540.5	14005.7	8377.4	3606.6
82.5°	720.3	798.7	1360.3	1436.9	1344.2	1768.5	5350.2	5355.5	4474.8	2246.3	1071.5
85°	558.0	624.0	932.4	877.1	686.4	784.4	1765.0	1861.2	1522.5	919.9	349.4
87.5°	278.1	345.9	632.9	556.2	269.2	224.6	631.1	673.9	600.8	360.1	126.6
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°	9309.8	9309.8	9309.8	9309.8	9309.8	9309.8	9309.8	9309.8	9309.8	9309.8	9309.8
2.5°	9333.0	9349.0	9368.6	9347.2	9340.1	9311.6	9263.4	9252.7	9227.8	9229.6	9243.8
5°	9415.0	9441.7	9431.0	9349.0	9251.0	9113.7	8971.1	8849.8	8769.6	8764.2	8758.9
7.5°	9571.9	9589.7	9505.9	9272.3	8997.8	8680.5	8380.9	8118.9	7960.2	7921.0	7912.1
10°	9817.9	9814.3	9584.3	9113.7	8566.4	7999.4	7518.1	7154.4	6942.2	6879.8	6863.8
12.5°	10092.4	10051.4	9611.1	8824.9	7956.6	7170.4	6560.7	6156.0	5934.9	5863.6	5845.8
15°	10375.9	10274.3	9545.1	8393.4	7207.9	6277.2	5637.2	5262.8	5143.4	5104.2	5097.0
17.5°	10639.8	10443.6	9356.1	7808.7	6353.9	5387.6	4888.4	4738.7	4767.2	4818.9	4820.7
20°	10898.3	10557.7	9053.1	7070.6	5453.6	4654.9	4485.5	4596.1	4731.6	4836.7	4851.0
22.5°	11153.2	10638.0	8662.6	6218.4	4647.8	4243.1	4362.5	4564.0	4719.1	4833.2	4852.8
25°	11367.1	10657.6	8124.2	5309.2	4088.0	4088.0	4303.7	4494.4	4647.8	4760.1	4779.7
27.5°	11445.6	10525.7	7364.7	4467.7	3806.3	4016.7	4221.7	4380.3	4510.5	4629.9	4651.3
30°	11475.9	10281.4	6487.6	3792.0	3690.4	3940.0	4111.1	4246.6	4369.6	4482.0	4501.6
32.5°	11481.2	9987.2	5557.0	3408.7	3610.2	3859.8	3973.9	4093.3	4225.2	4269.8	4276.9
35°	11515.1	9639.6	4576.4	3212.6	3535.3	3784.9	3875.8	3961.4	3747.4	3763.5	3777.8
37.5°	11613.2	9295.5	3756.4	3102.1	3487.2	3745.7	3854.4	3544.2	3376.6	3337.4	3332.1
40°	11796.8	8928.3	3148.4	3012.9	3469.3	3765.3	3717.1	3308.9	3020.1	2804.3	2772.3
42.5°	12051.7	8532.5	2759.8	2954.1	3481.8	3859.8	3526.4	3082.5	2602.9	2463.8	2446.0
45°	12338.8	8117.1	2549.4	2913.1	3524.6	3932.9	3487.2	2781.2	2408.6	2303.4	2294.5
47.5°	12616.9	7609.0	2440.7	2895.3	3583.4	3874.0	3321.4	2688.5	2315.9	2260.6	2265.9
50°	12936.0	7150.8	2374.7	2875.7	3635.1	3836.6	3134.2	2640.3	2280.2	2347.9	2419.3
52.5°	13205.2	6676.6	2315.9	2836.4	3654.7	3770.6	3086.0	2649.2	2280.2	2410.3	2478.1
55°	13524.3	6318.2	2248.1	2754.4	3617.3	3583.4	3052.2	2702.7	2306.9	2224.9	2232.1
57.5°	13936.2	6200.6	2173.2	2626.1	3492.5	3310.7	3036.1	2754.4	2290.9	2239.2	2257.0
60°	14506.6	6325.4	2142.9	2458.5	3298.2	3096.7	3037.9	2727.7	2178.6	2089.4	2091.2
62.5°	15050.4	6464.4	2141.1	2353.3	3059.3	2906.0	2996.9	2640.3	2121.5	2069.8	2089.4
65°	15228.7	6323.6	2055.6	2235.6	2790.1	2677.8	2922.0	2547.6	2078.7	2000.3	1996.7
67.5°	14989.8	5886.8	1882.6	2044.9	2481.7	2412.1	2824.0	2437.1	2011.0	1946.8	1936.1
70°	14280.2	4911.6	1668.7	1793.5	2130.4	2112.6	2668.9	2308.7	1920.1	1864.8	1818.5
72.5°	12370.9	3499.6	1406.6	1492.2	1734.7	1791.7	2454.9	2141.1	1791.7	1672.3	1601.0
75°	10160.2	2590.4	1155.3	1173.1	1317.5	1472.6	2160.8	1945.0	1640.2	1436.9	1381.7
77.5°	6222.0	1584.9	919.9	927.1	944.9	1174.9	1779.2	1725.8	1447.6	1198.0	1158.8
80°	2014.6	864.7	665.0	698.9	645.4	861.1	1376.3	1469.0	1242.6	1001.9	959.1
82.5°	766.6	504.5	449.3	472.4	447.5	577.6	1003.7	1176.6	1018.0	823.7	670.3
85°	370.8	285.2	265.6	297.7	276.3	295.9	641.8	866.4	772.0	536.6	499.2
87.5°	131.9	126.6	101.6	137.3	117.7	105.2	196.1	436.8	509.9	369.0	329.8
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)