

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: P318993

Luminaire Tested: **GAN-SA9A-730-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318993  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9A-730-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37676 lumens  
Efficiency: N/A  
Efficacy: 129.9 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

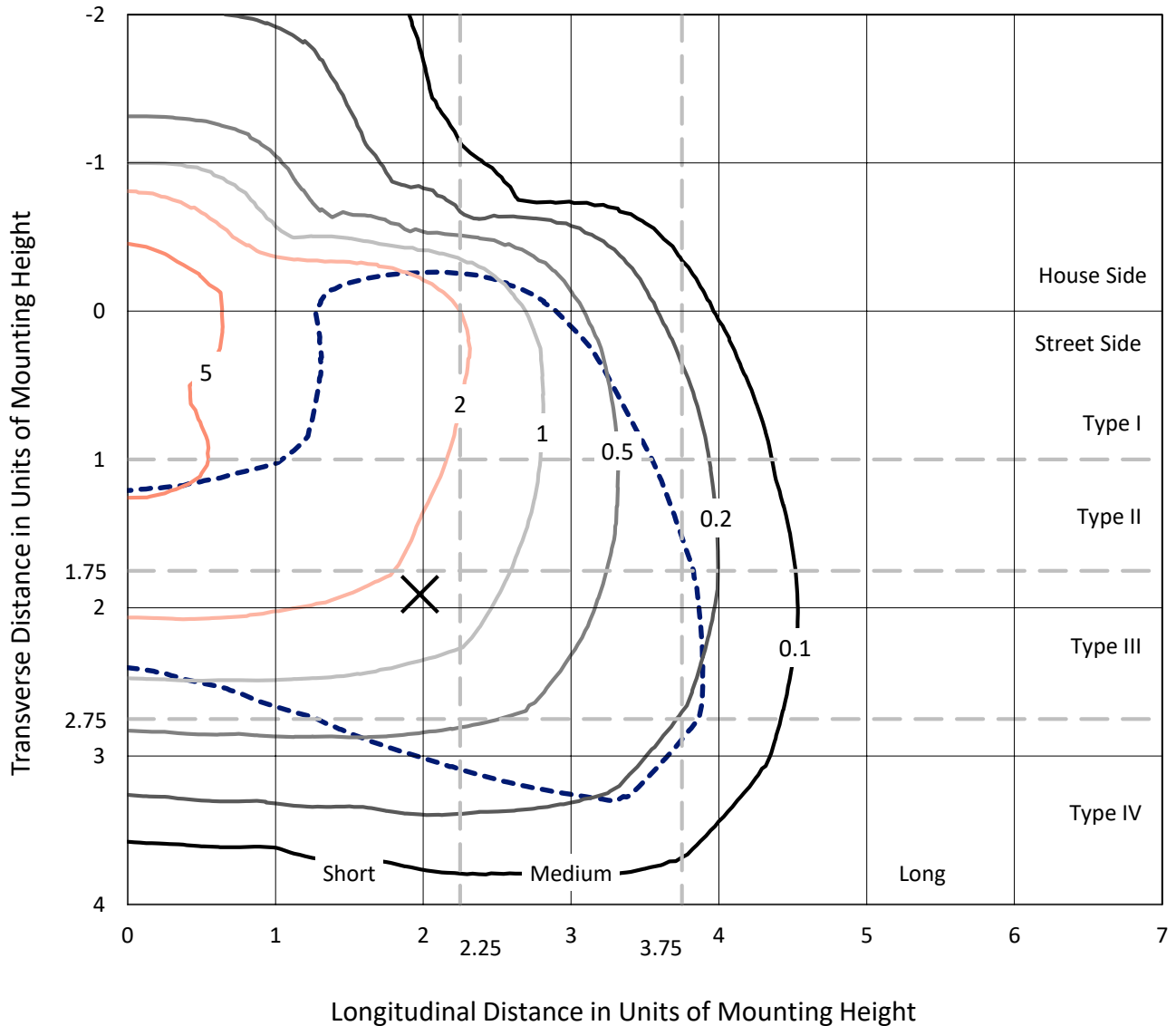
Input Watts (W): 290  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

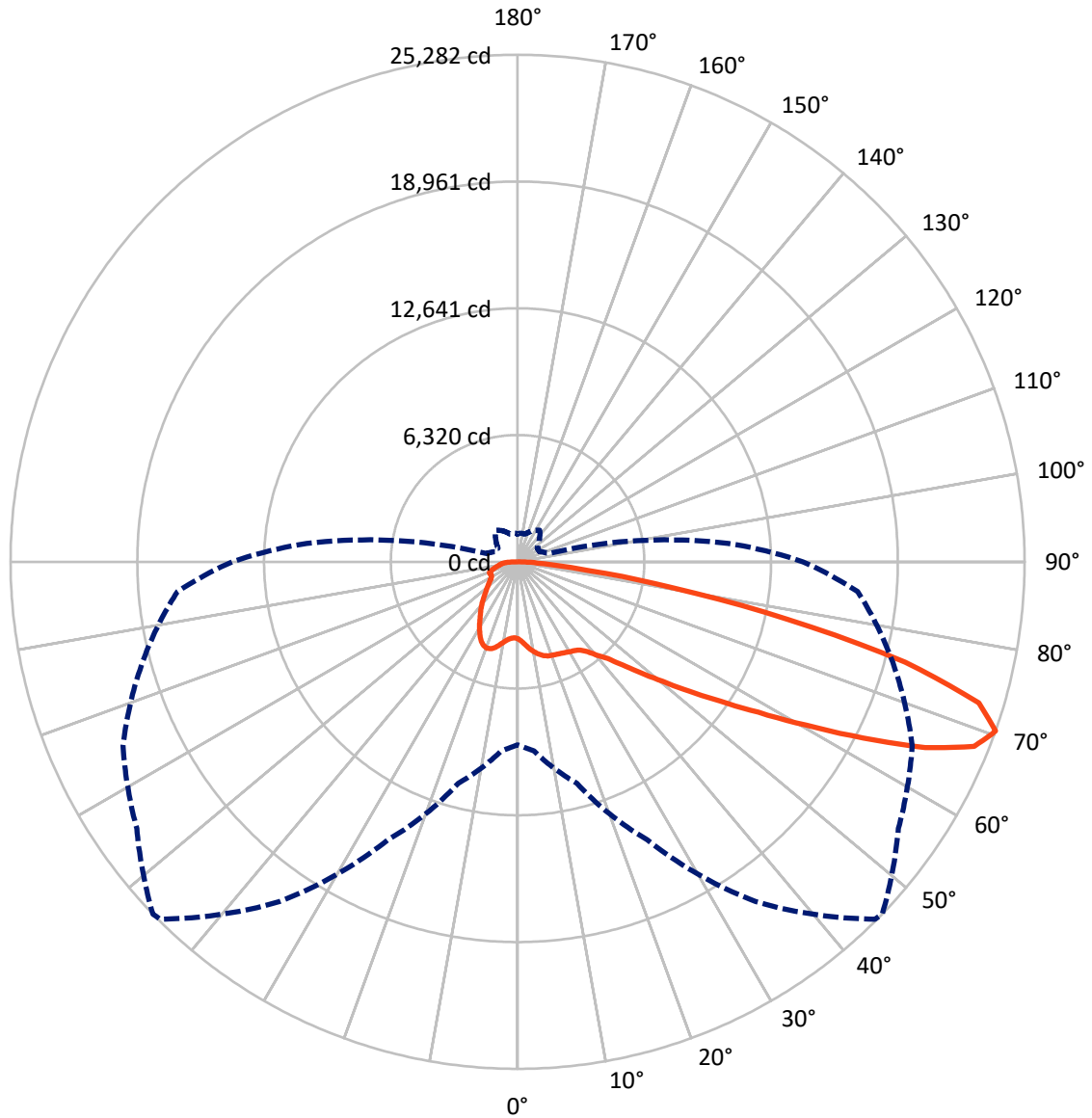
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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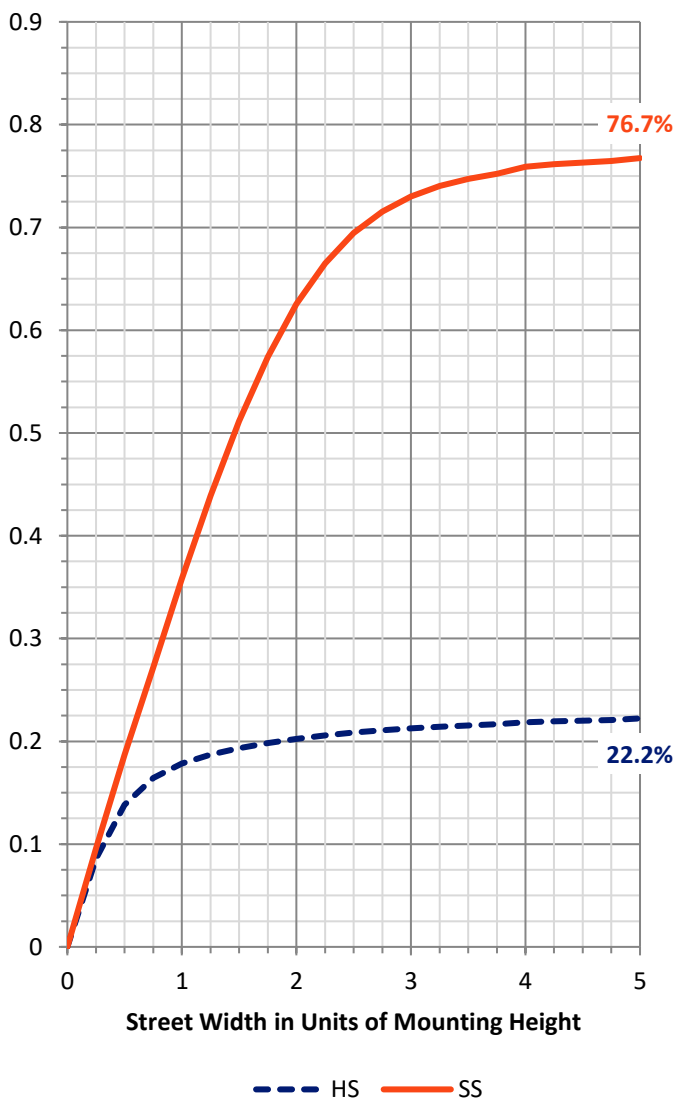
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8635.2	0.0	8635.2
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	29040.8	0.0	29040.8
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	37676.0	0.0	37676.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	391.3	1.0
10°-20°	1303.7	3.5
20°-30°	2173.8	5.8
30°-40°	3084.7	8.2
40°-50°	4537.4	12.0
50°-60°	7684.1	20.4
60°-70°	10907.5	29.0
70°-80°	6626.4	17.6
80°-90°	967.0	2.6
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°	37676.0	100.0
0°-180°	37676.0	100.0

**Coefficient of Utilization**

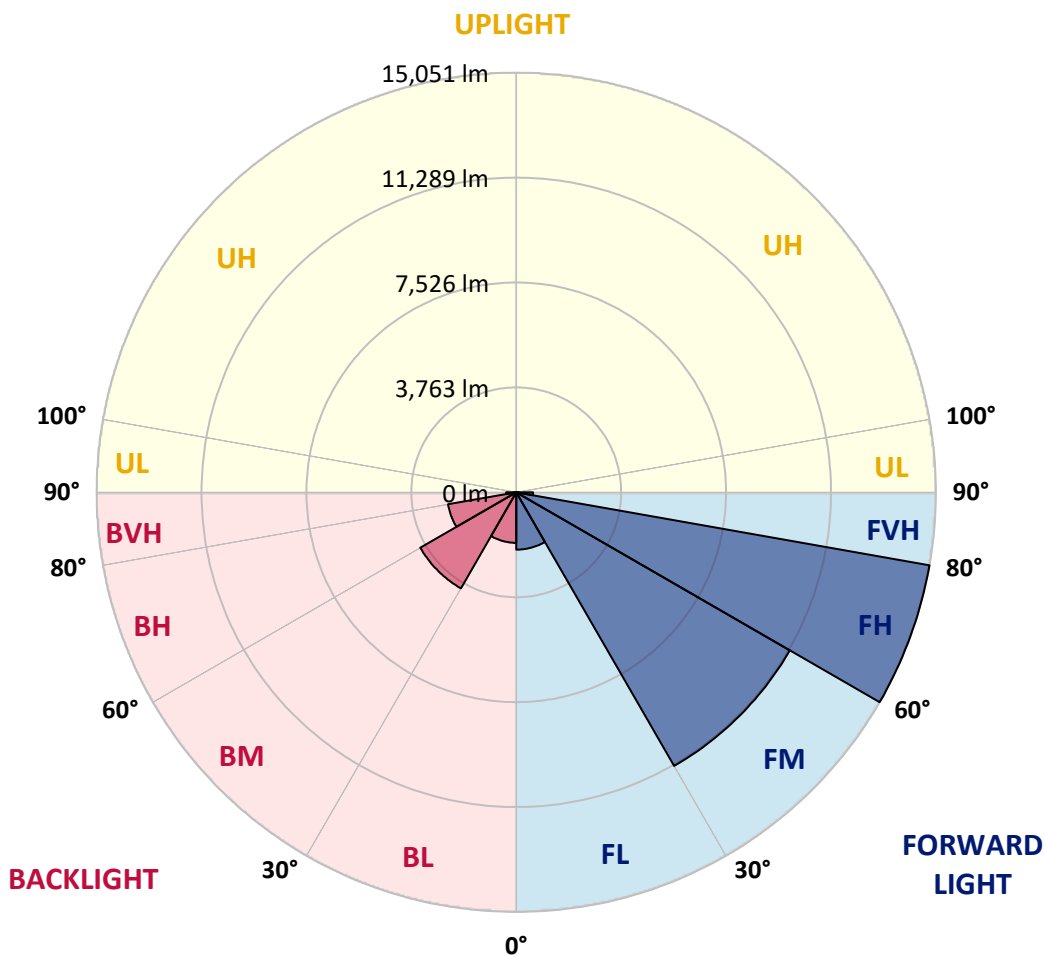


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2055.8	5.5			
FM (30°-60°)	11331.3	30.1			
FH (60°-80°)	15051.4	39.9			G5
FVH (80°-90°)	602.4	1.6			G4/750
BL (0°-30°)	1813.0	4.8	B3/2500		
BM (30°-60°)	3975.0	10.6	B3/5000		
BH (60°-80°)	2482.6	6.6	B3/2500		G3/2500
BVH (80°-90°)	364.7	1.0			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3838.4	3838.4	3838.4	3838.4	3838.4	3838.4	3838.4	3838.4	3838.4	3838.4	3838.4
2.5°	4030.6	4033.1	4038.3	4025.4	3989.3	3979.0	3975.1	3937.7	3913.2	3877.1	3846.2
5°	4352.9	4355.5	4347.7	4311.6	4231.7	4172.4	4167.2	4082.1	4004.8	3922.3	3860.4
7.5°	4689.4	4693.3	4668.8	4600.5	4488.3	4385.1	4378.7	4262.6	4145.3	4020.2	3927.4
10°	4987.3	4971.8	4931.8	4836.4	4703.6	4577.3	4572.1	4450.9	4315.5	4164.7	4040.9
12.5°	5185.8	5172.9	5121.4	5005.3	4859.6	4743.6	4733.3	4621.1	4489.6	4324.5	4176.3
15°	5295.4	5304.5	5234.8	5103.3	4961.5	4863.5	4854.5	4774.5	4657.2	4490.9	4320.7
17.5°	5309.6	5317.4	5250.3	5120.1	5004.0	4937.0	4933.1	4880.3	4795.2	4635.3	4457.3
20°	5227.1	5232.3	5176.8	5069.8	4993.7	4973.1	4971.8	4948.6	4885.4	4743.6	4570.8
22.5°	5107.2	5111.1	5071.1	4993.7	4967.9	5000.2	5009.2	5000.2	4955.0	4822.2	4659.8
25°	5077.5	5075.0	5033.7	4955.0	4977.0	5045.3	5056.9	5060.8	5029.8	4913.8	4773.2
27.5°	5220.6	5211.6	5133.0	5006.6	5020.8	5103.3	5118.8	5156.2	5136.8	5035.0	4902.2
30°	5634.5	5619.1	5457.9	5202.6	5133.0	5175.5	5194.9	5254.2	5258.0	5172.9	5073.7
32.5°	6333.4	6314.0	6025.2	5568.8	5322.5	5249.0	5267.1	5356.0	5403.7	5338.0	5231.0
35°	7216.6	7194.7	6815.6	6191.5	5639.7	5389.6	5402.4	5473.4	5568.8	5475.9	5334.1
37.5°	8137.2	8084.3	7719.4	6923.9	6143.8	5690.0	5690.0	5699.0	5744.1	5550.7	5455.3
40°	9052.6	8999.8	8669.7	7785.2	6796.3	6163.2	6133.5	5933.7	5897.6	5731.2	5699.0
42.5°	9903.6	9888.2	9693.5	8758.7	7562.1	6628.6	6587.4	6248.3	6256.0	6152.9	6154.2
45°	10808.8	10808.8	10650.2	9741.2	8454.4	7376.5	7335.2	6836.2	6913.6	6865.9	6980.6
47.5°	11547.6	11570.8	11548.9	10764.9	9492.3	8326.7	8252.0	7651.1	7867.7	8031.5	8365.4
50°	12301.9	12338.0	12341.8	11888.0	10746.9	9456.2	9371.1	8732.9	9216.4	9685.7	10342.0
52.5°	13396.5	13477.8	13154.1	13008.4	12283.8	10797.2	10713.4	10124.1	10931.3	11590.1	12720.9
55°	14411.3	14340.3	14109.5	14199.8	13929.0	12323.8	12260.6	11743.6	12842.1	13698.2	15166.8
57.5°	14960.5	14955.4	15187.5	15574.3	15703.2	14206.3	14153.4	13650.5	14996.6	15640.0	17463.2
60°	15605.2	15614.2	16189.3	17067.4	17598.6	16550.3	16527.1	16145.5	17089.3	17452.9	19264.4
62.5°	15695.5	15857.9	16848.2	18359.3	19372.7	19288.9	19340.5	18392.8	18961.4	18899.5	20609.2
65°	14657.5	14871.6	16663.8	18750.0	21136.6	22284.1	22331.8	20653.1	20437.8	20136.1	21090.2
67.5°	12530.1	12847.3	14794.2	17900.3	21718.1	24498.0	24565.0	22405.3	21662.7	20555.1	19932.3
70°	9118.4	9470.4	11430.2	15288.0	20681.5	25205.8	25281.9	23180.2	21709.1	19362.4	17015.8
72.5°	5508.2	5784.1	7399.7	11254.9	17455.5	23916.5	24051.9	22197.8	19820.2	16400.8	12564.9
75°	2418.9	2599.4	3578.0	6485.5	12496.5	19787.9	19956.8	19000.1	16104.2	11918.9	7426.8
77.5°	1030.2	1081.8	1467.3	2817.3	7064.4	13521.6	13753.7	13882.6	10926.1	6485.5	3138.3
80°	642.1	662.7	830.4	1275.2	3305.9	7594.4	7844.5	8168.1	5425.7	2384.0	1096.0
82.5°	390.7	413.9	551.8	771.0	1721.3	3442.6	3562.5	3790.7	2105.5	1030.2	567.3
85°	234.7	251.4	337.8	487.4	979.9	1353.8	1352.5	1495.7	991.5	662.7	299.1
87.5°	112.2	125.1	180.5	252.7	493.8	508.0	475.8	539.0	602.1	434.5	150.9
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°	3838.4	3838.4	3838.4	3838.4	3838.4	3838.4	3838.4	3838.4	3838.4	3838.4	3838.4
2.5°	3835.9	3830.7	3813.9	3801.1	3798.5	3790.7	3784.3	3788.2	3793.3	3794.6	3794.6
5°	3834.6	3820.4	3798.5	3789.5	3801.1	3816.5	3835.9	3861.7	3877.1	3888.7	3896.5
7.5°	3896.5	3869.4	3844.9	3839.7	3862.9	3904.2	3948.0	4002.2	4039.6	4065.4	4070.5
10°	3999.6	3966.1	3941.6	3946.8	3988.0	4047.3	4109.2	4178.8	4235.6	4270.4	4273.0
12.5°	4118.2	4086.0	4062.8	4084.7	4153.1	4225.3	4289.7	4350.3	4401.9	4436.7	4436.7
15°	4254.9	4231.7	4204.6	4254.9	4347.7	4412.2	4439.3	4468.9	4497.3	4523.1	4517.9
17.5°	4386.4	4364.5	4350.3	4409.6	4506.3	4536.0	4517.9	4496.0	4496.0	4510.2	4512.8
20°	4499.9	4480.6	4489.6	4547.6	4597.9	4566.9	4499.9	4430.3	4401.9	4409.6	4417.4
22.5°	4599.2	4590.1	4617.2	4644.3	4608.2	4499.9	4376.1	4282.0	4247.2	4244.6	4247.2
25°	4715.2	4713.9	4747.5	4698.5	4538.6	4338.7	4172.4	4080.8	4061.5	4077.0	4102.8
27.5°	4859.6	4873.8	4890.6	4711.3	4396.7	4095.0	3926.1	3862.9	3882.3	3919.7	3944.2
30°	5044.0	5082.7	5046.6	4679.1	4193.0	3816.5	3655.4	3637.3	3690.2	3743.0	3768.8
32.5°	5223.2	5283.8	5196.2	4595.3	3930.0	3521.3	3396.2	3391.0	3455.5	3507.1	3543.2
35°	5367.6	5487.5	5308.3	4429.0	3625.7	3249.2	3157.7	3122.8	3146.1	3206.7	3247.9
37.5°	5555.9	5755.7	5385.7	4175.0	3295.6	3024.9	2917.8	2837.9	2817.3	2841.8	2862.4
40°	5900.1	6164.5	5421.8	3820.4	2973.3	2800.5	2692.2	2574.9	2493.6	2434.3	2435.6
42.5°	6462.3	6697.0	5398.6	3389.7	2675.4	2581.3	2458.8	2323.4	2191.9	2057.8	2047.5
45°	7375.2	7488.6	5329.0	2933.3	2413.7	2351.8	2237.1	2101.7	1926.3	1774.2	1760.0
47.5°	8836.0	8584.6	5220.6	2534.9	2182.9	2157.1	2051.4	1895.4	1709.7	1587.2	1576.9
50°	10828.1	10166.7	5167.8	2217.7	1979.2	1986.9	1900.5	1735.5	1560.1	1469.9	1459.6
52.5°	13210.9	12009.2	5269.6	1972.7	1815.4	1842.5	1778.0	1623.3	1476.3	1405.4	1395.1
55°	15682.6	13917.4	5379.2	1794.8	1660.7	1713.6	1691.7	1564.0	1431.2	1365.4	1356.4
57.5°	17798.4	15342.2	5160.0	1650.4	1522.7	1605.3	1624.6	1526.6	1408.0	1348.7	1338.4
60°	19130.3	15916.0	4585.0	1515.0	1413.1	1518.9	1585.9	1516.3	1417.0	1411.9	1404.1
62.5°	19762.1	15865.7	3722.4	1408.0	1344.8	1481.5	1614.3	1574.3	1520.2	1566.6	1570.4
65°	19478.5	15107.5	2772.1	1337.1	1295.8	1495.7	1699.4	1683.9	1549.8	1596.2	1602.7
67.5°	17611.5	13298.5	2052.7	1275.2	1241.7	1535.6	1854.1	1720.0	1491.8	1525.3	1504.7
70°	14234.6	10543.2	1583.3	1205.6	1186.2	1530.5	1923.7	1698.1	1428.6	1436.4	1380.9
72.5°	9816.0	7189.5	1288.1	1141.1	1106.3	1395.1	1874.7	1643.9	1375.8	1316.4	1243.0
75°	5338.0	3859.1	1094.7	1074.0	965.7	1224.9	1784.5	1605.3	1328.0	1249.4	1208.1
77.5°	2100.4	1601.4	950.3	982.5	844.5	1081.8	1683.9	1531.8	1262.3	1159.1	1138.5
80°	857.4	817.5	787.8	849.7	725.9	946.4	1562.7	1445.4	1183.6	1075.3	1034.1
82.5°	486.1	508.0	612.4	670.5	589.2	871.6	1504.7	1375.8	1089.5	963.2	914.2
85°	248.8	297.8	426.8	480.9	433.2	741.4	1386.1	1204.3	874.2	737.5	741.4
87.5°	119.9	166.3	269.5	301.7	281.1	536.4	1035.4	872.9	680.8	539.0	522.2
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)