

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: P317433

Luminaire Tested: **GAN-SA9A-740-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317433  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9A-740-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43404 lumens  
Efficiency: N/A  
Efficacy: 149.7 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

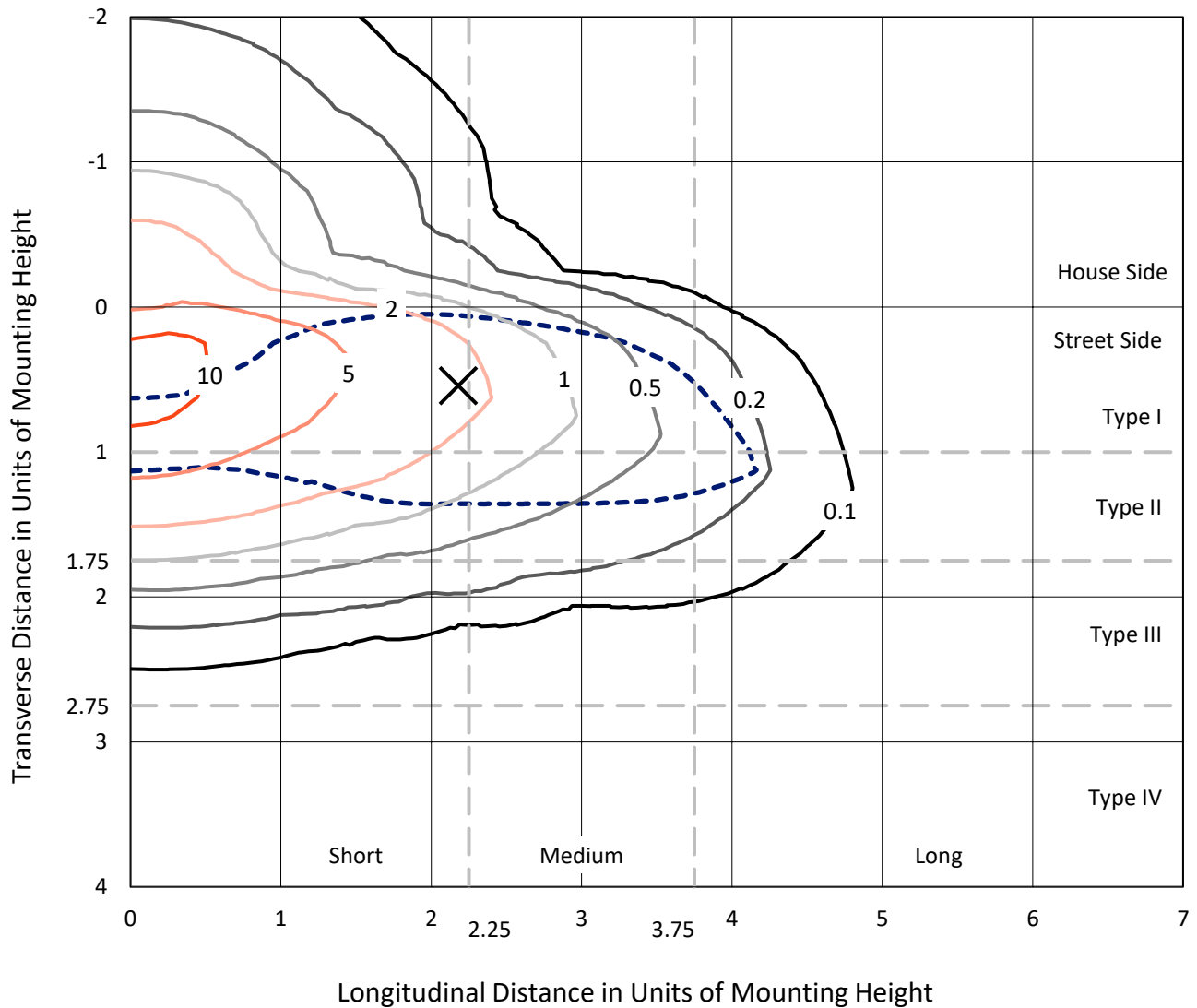
Input Watts (W): 290  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

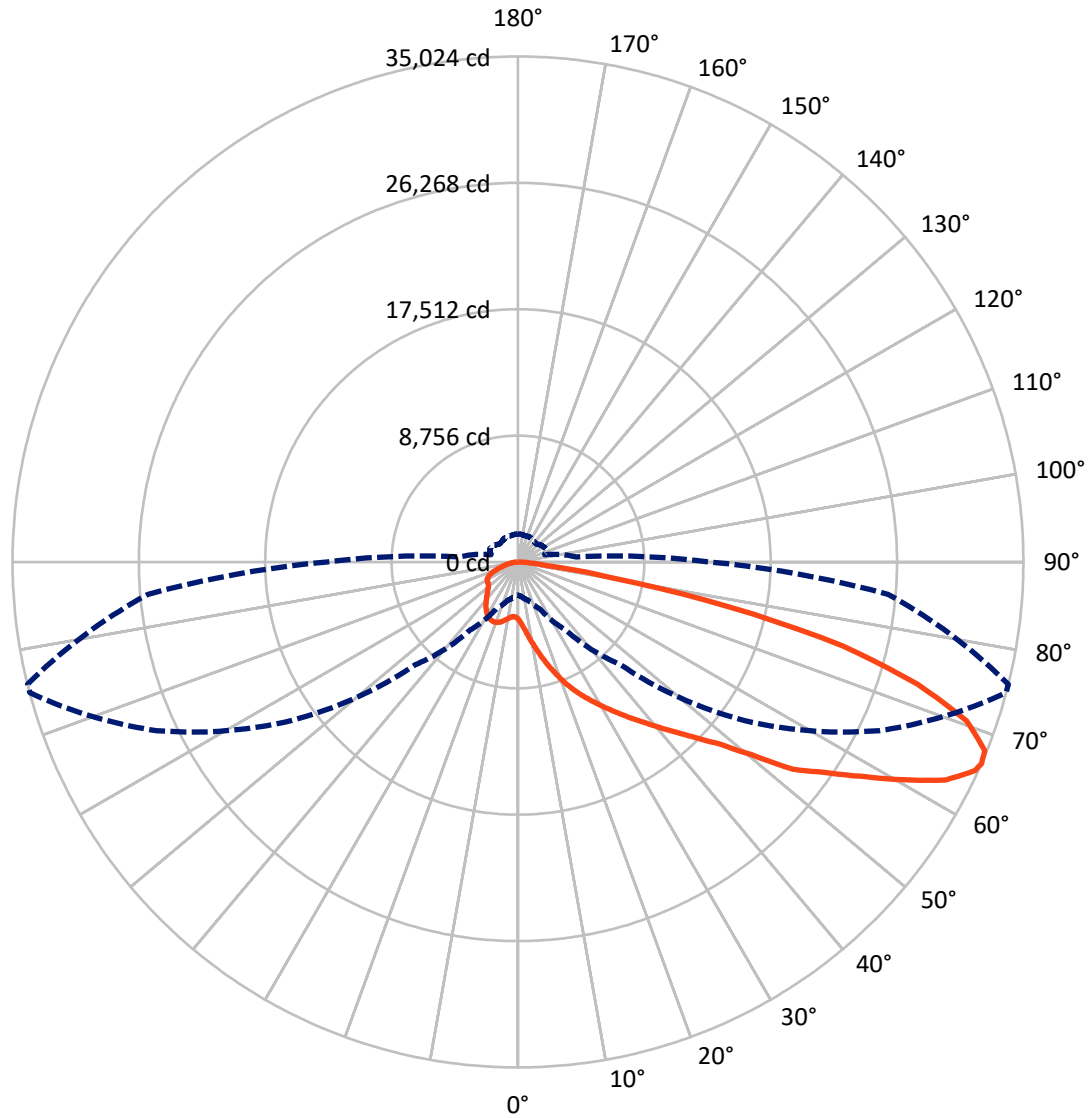
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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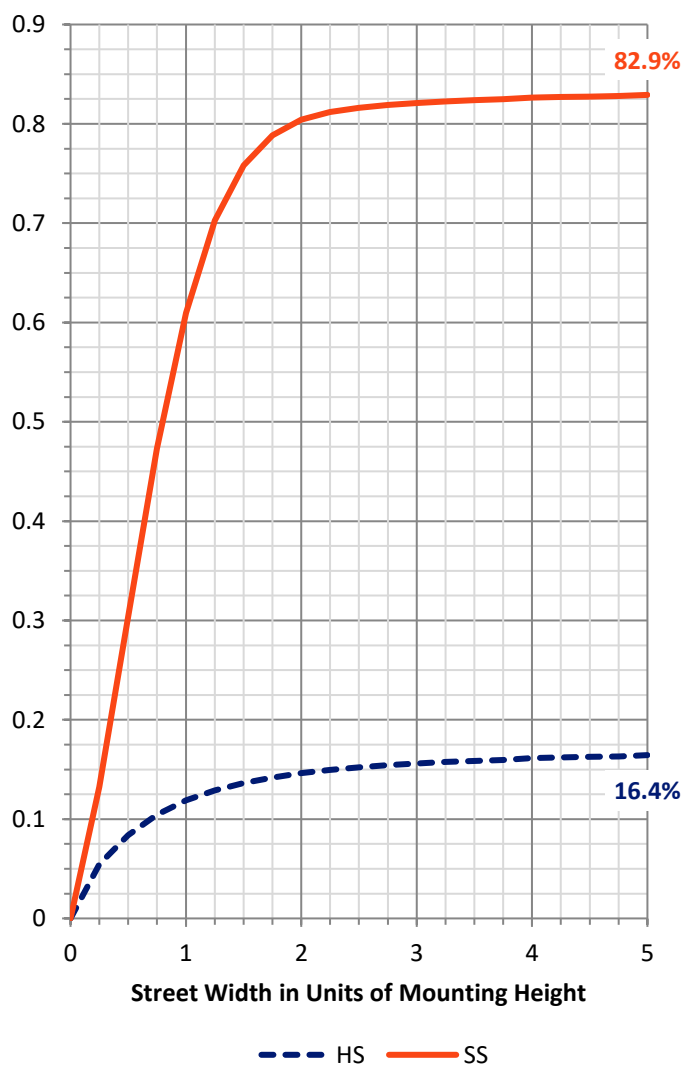
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7303.4	0.0	7303.4
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	36100.6	0.0	36100.6
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	43404.0	0.0	43404.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	479.3	1.1
10°-20°	1892.8	4.4
20°-30°	3678.2	8.5
30°-40°	6003.7	13.8
40°-50°	8202.5	18.9
50°-60°	9554.2	22.0
60°-70°	8565.5	19.7
70°-80°	4328.7	10.0
80°-90°	699.0	1.6
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°	43404.0	100.0
0°-180°	43404.0	100.0

**Coefficient of Utilization**



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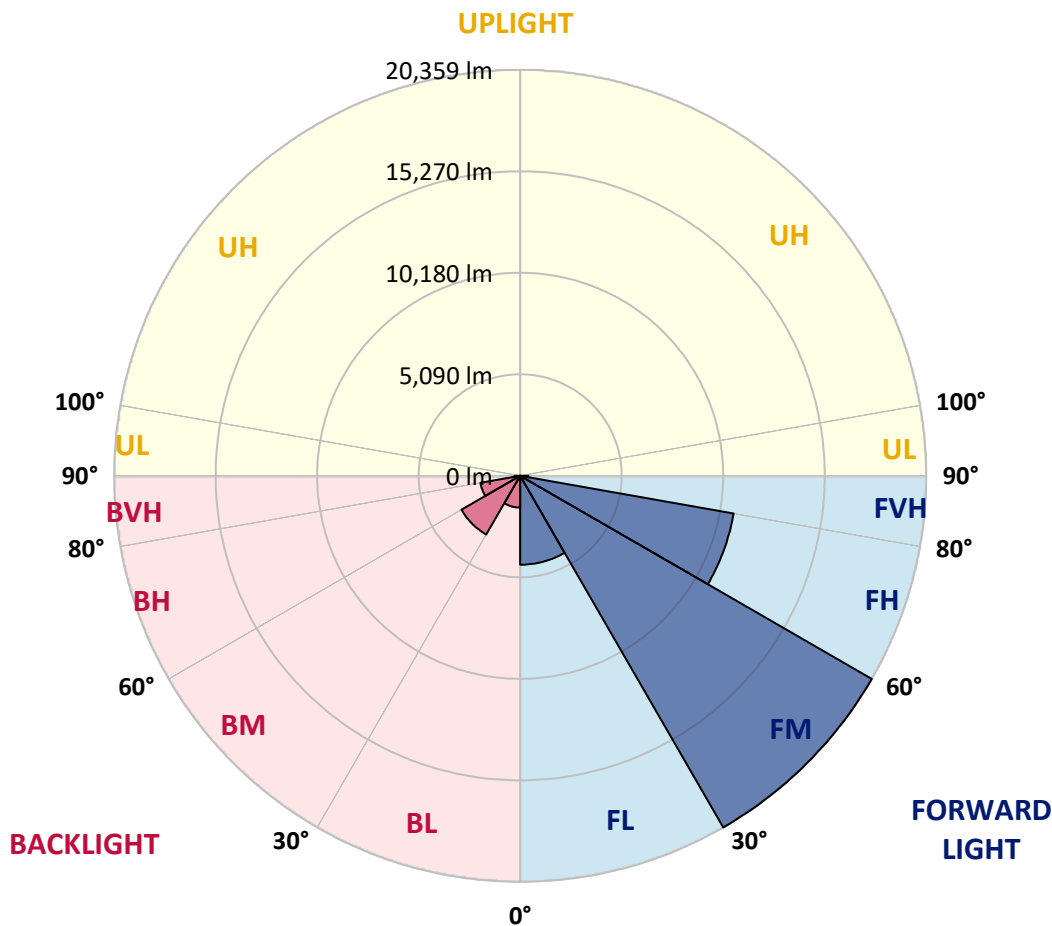
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4457.5	10.3			
FM (30°-60°)	20359.5	46.9			
FH (60°-80°)	10870.8	25.0			G4/12000
FVH (80°-90°)	412.8	1.0			G3/500
BL (0°-30°)	1592.9	3.7	B3/2500		
BM (30°-60°)	3400.9	7.8	B3/5000		
BH (60°-80°)	2023.4	4.7	B3/2500		G3/2500
BVH (80°-90°)	286.2	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3963.8	3963.8	3963.8	3963.8	3963.8	3963.8	3963.8	3963.8	3963.8	3963.8	3963.8
2.5°	5261.9	5182.4	5175.0	5058.6	5032.1	4809.6	4646.0	4475.1	4280.6	4242.3	4089.0
5°	6759.0	6751.7	6650.0	6459.9	6311.1	5930.9	5555.2	5157.3	4721.2	4650.4	4305.6
7.5°	8105.8	8094.0	8015.9	7811.1	7596.0	7128.9	6592.5	5982.5	5275.2	5170.6	4598.9
10°	9128.4	9124.0	9097.5	8947.2	8764.5	8316.5	7724.2	6891.6	5919.1	5776.2	4965.8
12.5°	9918.3	9927.1	9944.8	9891.7	9804.8	9423.1	8816.1	7855.3	6605.8	6464.3	5373.9
15°	10453.1	10479.7	10571.0	10646.2	10691.8	10457.6	9869.6	8841.1	7375.0	7205.5	5826.3
17.5°	10722.8	10752.3	10909.9	11136.9	11346.1	11322.5	10855.4	9781.2	8113.2	7949.6	6312.6
20°	10955.6	10977.7	11154.5	11427.1	11797.0	11960.5	11698.3	10686.0	8922.2	8727.6	6828.3
22.5°	11630.5	11658.5	11711.5	11866.2	12193.4	12494.0	12367.2	11542.1	9663.3	9482.1	7317.5
25°	12933.1	12967.0	12852.0	12720.9	12782.8	12992.0	13015.6	12323.0	10414.8	10210.0	7843.5
27.5°	14502.4	14551.0	14355.0	14017.6	13722.9	13641.8	13613.8	12962.5	11132.4	10895.2	8363.7
30°	16039.2	16123.2	15868.3	15430.7	14889.9	14509.7	14228.3	13588.8	11839.7	11612.8	8854.4
32.5°	17540.8	17506.9	17137.0	16709.7	16076.1	15600.1	14919.4	14260.7	12635.4	12374.6	9342.1
35°	18569.3	18581.1	18237.7	17730.8	17126.7	16761.3	15844.7	14985.7	13447.3	13207.1	9896.1
37.5°	19444.5	19390.0	19001.0	18528.0	18007.9	17851.7	16927.8	15784.3	14327.0	14064.7	10485.6
40°	19736.3	19672.9	19418.0	19077.6	18660.6	18647.4	18122.8	16689.1	15321.6	15062.3	11150.1
42.5°	19559.5	19478.4	19373.8	19281.0	19152.8	19211.7	19245.6	17750.0	16415.0	16124.7	11919.3
45°	18906.7	18784.4	18858.1	19060.0	19338.5	19671.5	20259.4	18924.4	17639.5	17396.4	12822.6
47.5°	17903.2	17792.7	18022.6	18454.3	19211.7	20054.6	21218.7	20221.1	19101.2	18859.6	14108.9
50°	16491.6	16524.0	16852.6	17638.0	18782.9	20231.4	22400.4	21937.7	21226.0	21000.6	15863.9
52.5°	14175.2	14181.1	15106.5	16395.8	18022.6	20140.0	23056.1	24131.8	24127.4	23854.8	17534.9
55°	12023.9	12155.1	12887.4	14601.1	16790.7	19774.6	23514.4	25198.6	26032.6	25712.9	19092.4
57.5°	9922.7	9999.3	10693.3	12414.4	15032.8	18800.6	23984.5	26479.1	28228.2	28026.3	21028.6
60°	7532.6	7650.5	8368.1	9958.0	12784.2	17072.2	24028.7	27815.6	30852.5	30649.2	23190.2
62.5°	4889.1	5092.5	5764.4	7254.1	10064.1	14586.4	23003.1	28689.4	33339.8	33267.6	25108.8
65°	2810.0	2963.2	3430.4	4579.7	6943.2	11465.4	20564.4	28353.4	34870.8	34829.6	25826.4
66°	2295.7	2391.5	2749.6	3579.2	5729.0	10068.6	19146.9	27644.7	35022.6	35024.1	25743.8
67.5°	1836.0	1878.7	2039.3	2562.4	4227.5	7980.6	16613.9	26081.3	34834.0	34885.5	25211.9
70°	1519.2	1541.3	1591.4	1718.1	2307.5	4812.5	11792.6	22018.8	32940.5	32980.3	23135.7
72.5°	1363.0	1376.3	1395.4	1413.1	1628.2	2689.2	7202.6	17614.4	28881.0	28932.5	19972.1
75°	1234.8	1242.2	1239.2	1240.7	1366.0	1713.7	3722.1	13151.2	23352.3	23249.2	15299.5
77.5°	1084.5	1091.9	1077.1	1080.1	1208.3	1317.3	1852.2	9206.5	15759.3	15031.4	8620.1
80°	916.5	922.4	916.5	926.8	1052.1	994.6	1077.1	5179.4	6968.3	6591.0	3064.9
82.5°	692.6	717.6	735.3	776.5	866.4	707.3	720.6	2017.2	2121.9	2020.2	940.1
85°	303.5	369.9	554.0	593.8	651.3	424.4	473.0	822.2	863.5	837.0	341.9
87.5°	79.6	86.9	274.1	344.8	361.0	191.6	246.1	374.3	394.9	374.3	113.5
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°	3963.8	3963.8	3963.8	3963.8	3963.8	3963.8	3963.8	3963.8	3963.8	3963.8	3963.8
2.5°	4008.0	3935.8	3806.1	3691.2	3604.2	3545.3	3486.3	3456.9	3439.2	3421.5	3424.5
5°	4136.2	3990.3	3767.8	3610.1	3521.7	3465.7	3436.2	3424.5	3417.1	3399.4	3399.4
7.5°	4329.2	4122.9	3816.4	3654.3	3585.1	3542.3	3524.7	3518.8	3509.9	3489.3	3492.2
10°	4572.3	4283.5	3918.1	3760.4	3697.1	3649.9	3624.9	3616.0	3599.8	3576.2	3579.2
12.5°	4858.2	4482.4	4052.2	3887.1	3810.5	3747.2	3705.9	3680.8	3652.9	3621.9	3623.4
15°	5170.6	4699.0	4196.6	4000.6	3896.0	3807.6	3741.3	3698.5	3654.3	3616.0	3614.5
17.5°	5487.4	4908.3	4307.1	4062.5	3921.0	3804.6	3714.7	3648.4	3593.9	3546.8	3542.3
20°	5829.2	5096.9	4369.0	4056.6	3873.9	3735.4	3616.0	3533.5	3473.1	3425.9	3418.6
22.5°	6177.0	5273.7	4379.3	3996.2	3769.3	3599.8	3474.6	3383.2	3321.3	3272.7	3255.0
25°	6495.3	5410.8	4336.6	3879.8	3623.4	3440.7	3318.4	3225.5	3175.4	3118.0	3100.3
27.5°	6785.6	5506.5	4251.1	3730.9	3459.8	3280.1	3165.1	3085.5	3031.0	2986.8	2972.1
30°	7046.4	5558.1	4111.1	3554.1	3291.8	3128.3	3031.0	2976.5	2929.4	2873.4	2863.0
32.5°	7293.9	5558.1	3931.3	3361.1	3125.3	2994.2	2936.7	2902.8	2849.8	2795.3	2780.5
35°	7541.5	5524.2	3719.2	3159.2	2972.1	2898.4	2895.5	2855.7	2774.6	2701.0	2681.8
37.5°	7802.3	5455.0	3480.5	2970.6	2846.8	2855.7	2880.7	2792.3	2677.4	2572.8	2544.8
40°	8097.0	5359.2	3232.9	2807.1	2742.2	2836.5	2840.9	2701.0	2477.0	2381.2	2356.2
42.5°	8443.3	5263.4	3003.0	2662.6	2659.7	2779.1	2765.8	2503.5	2369.4	2320.8	2307.5
45°	8898.6	5208.9	2784.9	2525.6	2594.9	2686.2	2637.6	2394.5	2338.5	2310.5	2298.7
47.5°	9616.2	5236.9	2584.6	2416.6	2530.0	2593.4	2398.9	2350.3	2310.5	2276.6	2264.8
50°	10515.0	5220.7	2422.5	2341.4	2456.4	2496.1	2291.3	2292.8	2272.2	2233.9	2216.2
52.5°	11191.4	5094.0	2317.8	2298.7	2391.5	2323.7	2223.5	2236.8	2226.5	2170.5	2151.3
55°	11844.1	4984.9	2264.8	2282.5	2344.4	2108.6	2144.0	2176.4	2166.1	2111.6	2102.7
57.5°	12656.0	4964.3	2232.4	2286.9	2304.6	2001.0	2067.3	2110.1	2102.7	2079.1	2074.7
60°	13650.7	4970.2	2202.9	2294.3	2260.4	1921.5	1995.1	2049.7	2054.1	2049.7	2046.7
62.5°	14197.3	4809.6	2129.2	2273.6	2182.3	1852.2	1920.0	1999.6	2001.0	2009.9	2008.4
65°	13733.2	4329.2	1992.2	2201.4	2051.1	1794.7	1855.2	1942.1	1920.0	1959.8	1959.8
66°	13282.3	4052.2	1924.4	2154.3	1995.1	1772.6	1834.5	1912.6	1884.6	1939.2	1939.2
67.5°	12361.3	3585.1	1802.1	2054.1	1915.6	1741.7	1811.0	1864.0	1825.7	1906.7	1900.8
70°	10678.6	2773.2	1556.0	1827.2	1784.4	1696.0	1778.5	1766.7	1710.8	1834.5	1811.0
72.5°	9003.2	2107.1	1249.5	1529.5	1585.5	1638.6	1732.9	1643.0	1572.2	1659.2	1607.6
75°	6986.0	1584.0	987.3	1189.1	1339.4	1548.7	1678.3	1500.0	1398.4	1389.5	1361.5
77.5°	3776.6	1087.5	782.4	907.7	1063.9	1436.7	1641.5	1346.8	1193.5	1158.2	1136.1
80°	1495.6	707.3	568.8	688.1	744.1	1274.6	1553.1	1168.5	984.3	948.9	915.1
82.5°	617.4	418.5	366.9	461.2	484.8	1090.4	1393.9	957.8	760.3	1052.1	1116.9
85°	265.2	229.9	218.1	238.7	274.1	764.8	1109.6	730.9	820.7	732.3	582.0
87.5°	79.6	97.3	92.8	91.4	100.2	182.7	590.9	406.7	602.7	228.4	170.9
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)