

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: P317771

Luminaire Tested: **GAN-SA7C-740-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317771
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-SA7C-740-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 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: 51153 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

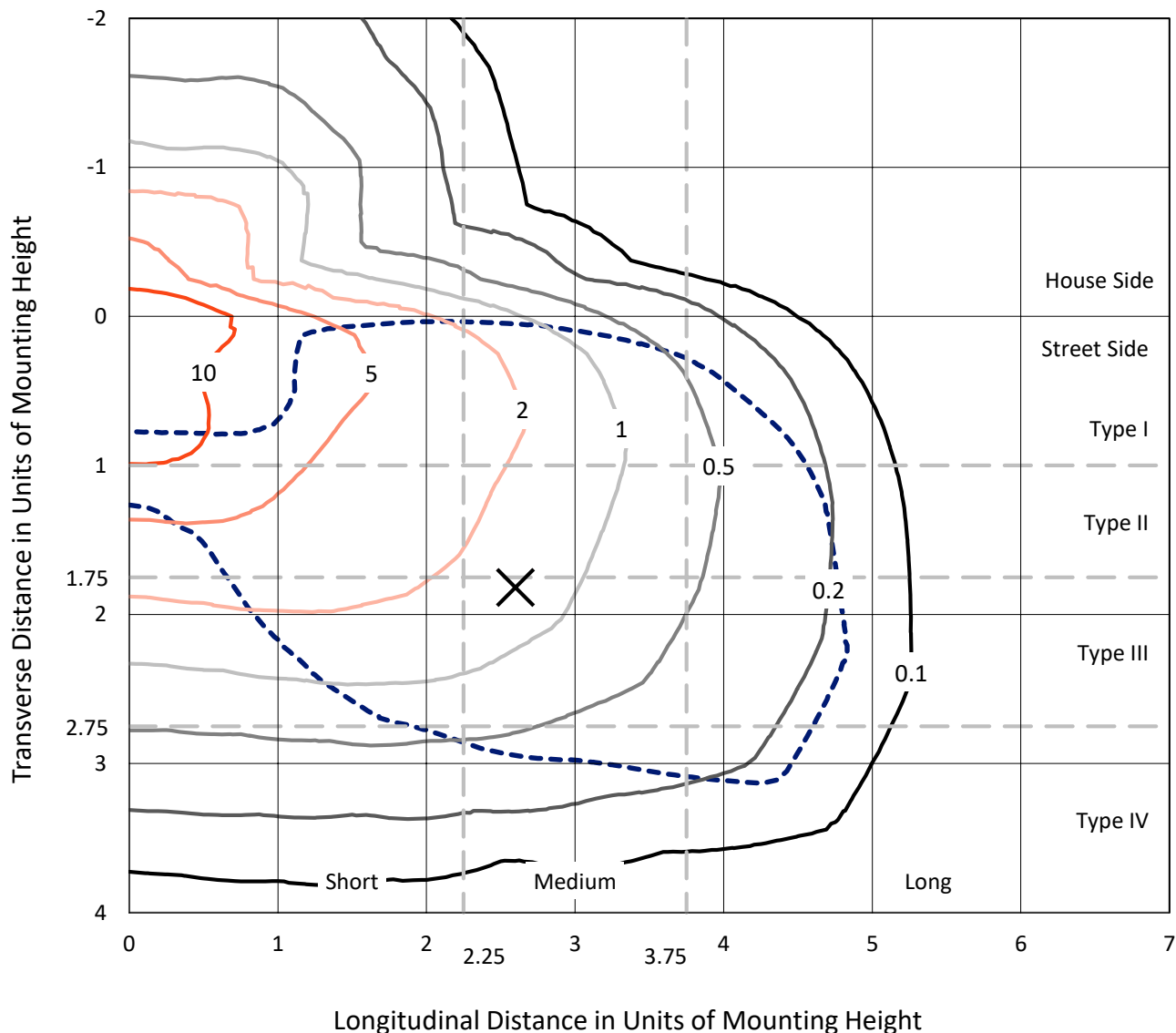
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

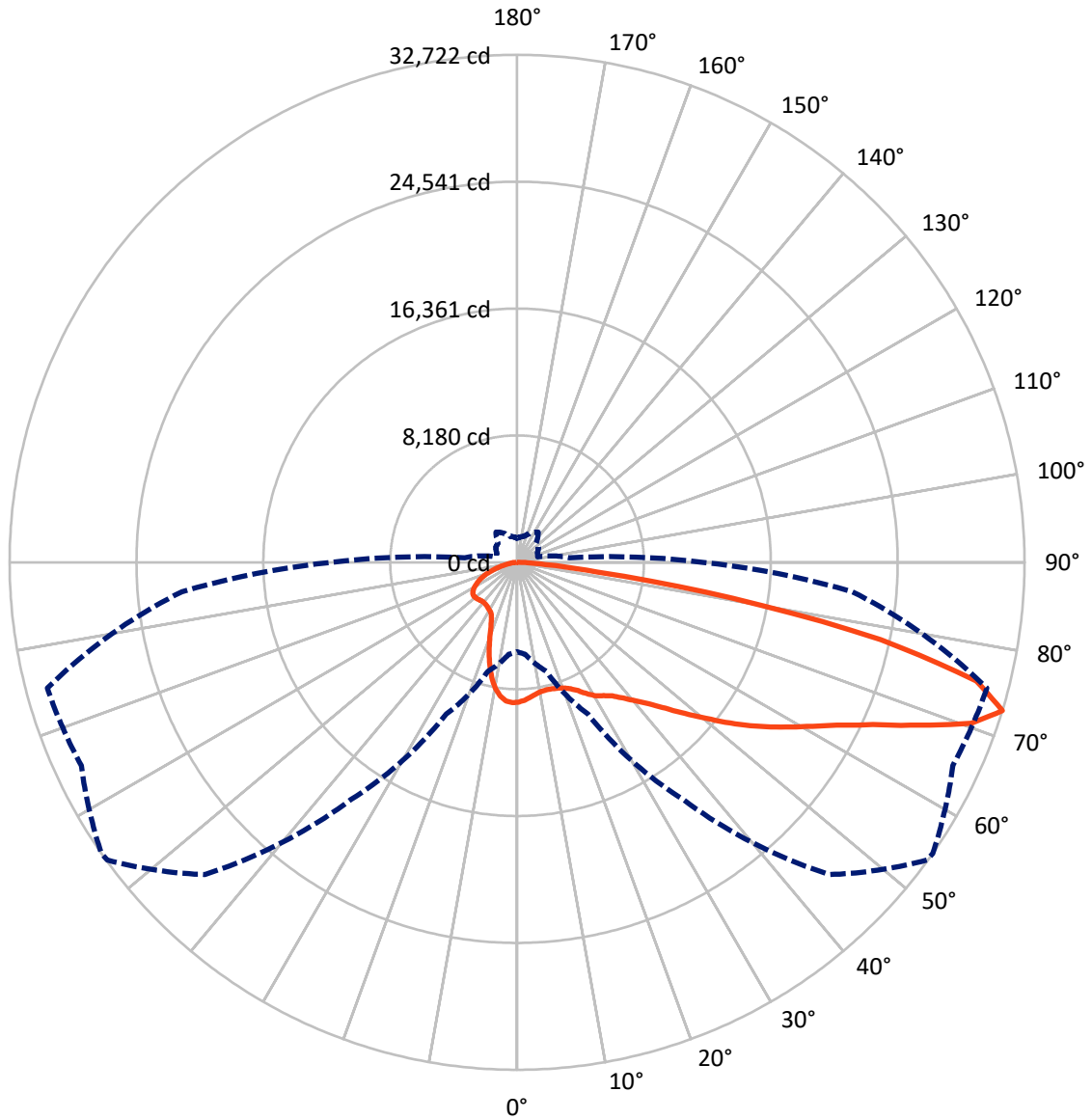
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 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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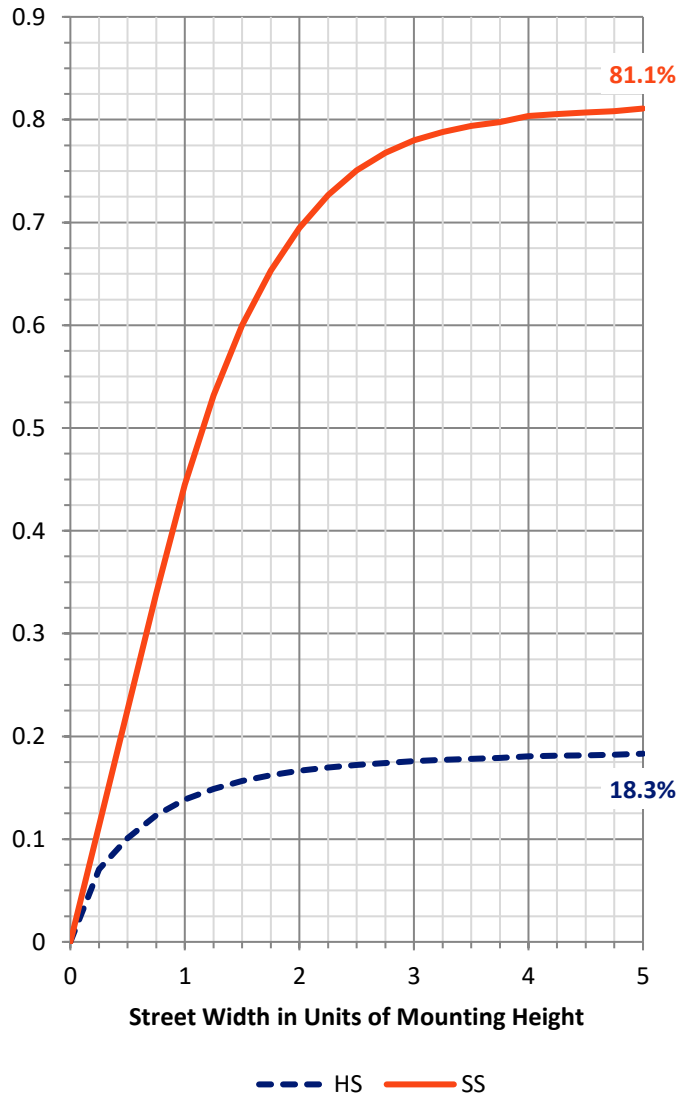
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9507.7	0.0	9507.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	41645.3	0.0	41645.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	51153.0	0.0	51153.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	816.4	1.6
10°-20°	2173.6	4.2
20°-30°	3583.7	7.0
30°-40°	5301.2	10.4
40°-50°	7399.4	14.5
50°-60°	9634.2	18.8
60°-70°	11840.1	23.1
70°-80°	9281.2	18.1
80°-90°	1123.2	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°	51153.0	100.0
0°-180°	51153.0	100.0

Coefficient of Utilization

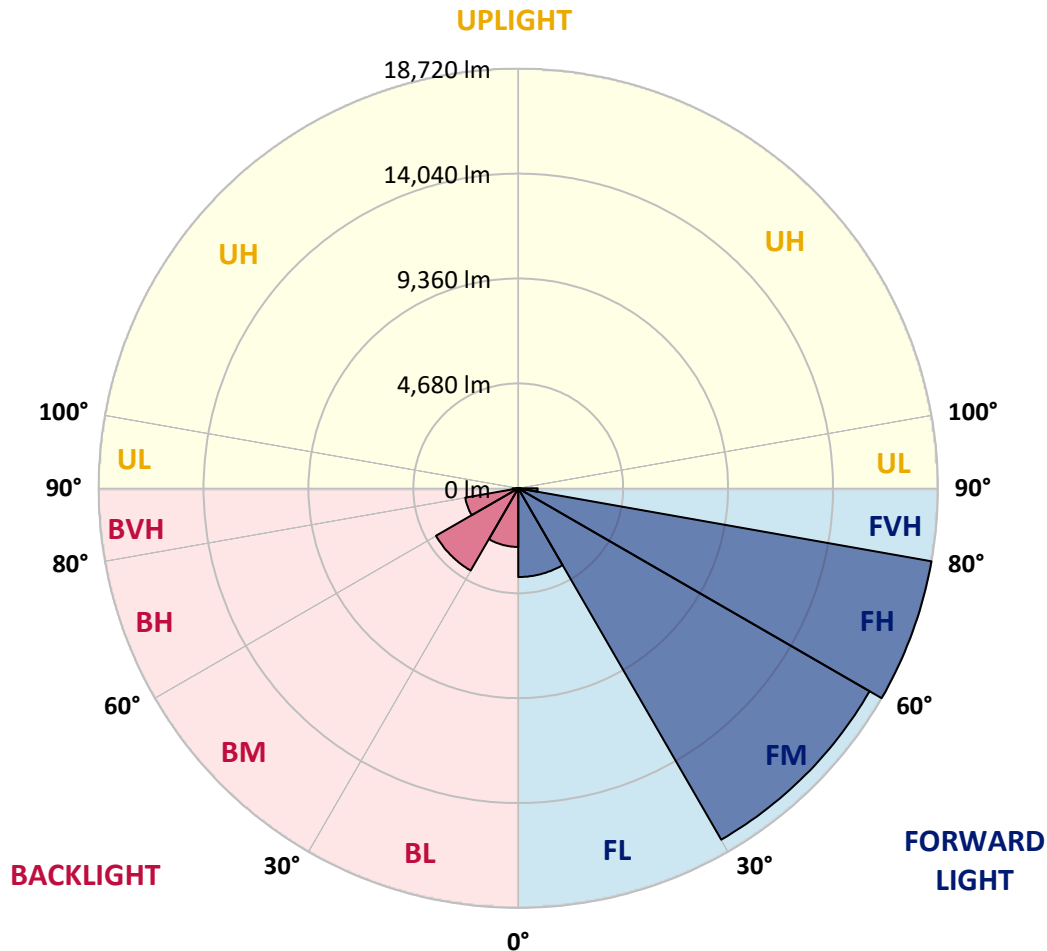


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3957.7	7.7			
FM (30°-60°)	18098.9	35.4			
FH (60°-80°)	18720.3	36.6			G5
FVH (80°-90°)	868.4	1.7			G5
BL (0°-30°)	2616.0	5.1	B4/5000		
BM (30°-60°)	4235.8	8.3	B3/5000		
BH (60°-80°)	2401.1	4.7	B3/2500		G3/2500
BVH (80°-90°)	254.8	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°	9022.3	9022.3	9022.3	9022.3	9022.3	9022.3	9022.3	9022.3	9022.3	9022.3	9022.3
2.5°	8728.6	8707.8	8733.8	8770.0	8809.8	8863.3	8894.4	8908.3	8961.8	8982.6	9027.5
5°	8324.3	8313.9	8357.1	8419.3	8507.4	8631.8	8732.0	8751.0	8892.7	8992.9	9084.5
7.5°	8030.6	8030.6	8080.7	8155.0	8253.4	8421.0	8562.7	8588.6	8828.8	9044.7	9214.1
10°	7797.3	7806.0	7864.7	7952.8	8068.6	8246.5	8434.9	8464.2	8811.5	9165.7	9435.2
12.5°	7641.8	7662.6	7716.1	7795.6	7939.0	8155.0	8393.4	8433.1	8847.8	9338.5	9701.3
15°	7740.3	7774.9	7780.0	7812.9	7892.3	8127.3	8417.6	8459.0	8925.5	9514.7	10003.6
17.5°	8172.2	8184.3	8130.8	8061.7	8023.7	8174.0	8490.1	8533.3	9018.8	9689.2	10293.9
20°	8828.8	8821.9	8706.1	8519.5	8326.0	8350.2	8609.4	8654.3	9145.0	9843.0	10584.2
22.5°	9658.1	9633.9	9456.0	9112.1	8782.1	8643.9	8818.4	8856.4	9335.0	10062.4	10895.2
25°	10663.6	10610.1	10375.1	9913.8	9428.3	9072.4	9132.9	9169.1	9611.4	10307.7	11180.2
27.5°	11724.5	11670.9	11372.0	10814.0	10167.8	9613.2	9566.5	9597.6	9925.9	10489.1	11391.0
30°	12833.7	12776.7	12503.7	11878.3	10952.2	10173.0	9970.8	9982.9	10147.1	10587.6	11563.8
32.5°	13948.1	13894.5	13588.7	12863.1	11804.0	10774.2	10262.8	10247.3	10280.1	10689.6	11759.0
35°	15078.0	15098.8	14741.1	13937.7	12747.3	11442.9	10608.4	10575.5	10503.0	10898.6	12035.5
37.5°	16287.5	16273.6	15810.6	14970.9	13733.9	12168.5	11104.2	11099.0	10848.5	11294.3	12469.1
40°	17096.0	17104.7	16823.1	16028.3	14730.8	12971.9	11740.0	11727.9	11399.7	11886.9	13037.6
42.5°	17412.2	17469.2	17541.8	17037.3	15774.3	13903.2	12498.5	12481.2	12168.5	12736.9	13706.2
45°	17434.7	17548.7	17997.9	17934.0	16831.7	14969.2	13467.8	13419.4	13194.8	13866.9	14504.4
47.5°	17241.2	17358.7	18105.0	18467.9	17776.8	16094.0	14601.2	14563.2	14369.7	15280.2	15368.3
50°	16817.9	16930.2	17883.9	18728.8	18554.3	17175.5	15907.4	15807.1	15703.5	16912.9	16356.6
52.5°	16024.8	16240.8	17588.5	18791.0	19019.0	18136.1	17280.9	17215.3	17272.3	18635.5	17346.6
55°	14146.8	14388.7	16826.5	18739.1	19362.8	18943.0	18654.5	18651.0	18946.5	20442.7	18409.1
57.5°	13094.6	13265.6	15275.0	18651.0	19770.6	19744.7	20014.2	20047.0	20622.4	22410.6	19521.8
60°	12500.2	12679.9	14488.9	18324.5	20403.0	20781.3	21401.6	21467.2	22325.9	24589.3	20860.8
62.5°	11959.5	12156.4	14001.7	17659.3	21147.6	22263.7	23063.7	23122.4	24129.7	26828.4	22154.9
65°	11035.1	11258.0	13288.1	17222.2	21824.9	24197.1	25176.7	25216.5	26201.3	29174.7	23144.9
67.5°	9728.9	9932.8	11942.2	16256.4	22325.9	26545.1	27986.0	28008.5	28255.6	30831.6	23651.1
70°	8203.3	8281.1	10024.4	14262.5	21733.3	28741.1	31064.9	31070.1	30128.4	31892.5	23568.2
72.5°	5763.8	5946.9	7277.3	10796.7	18676.9	28473.3	32663.0	32721.8	30999.2	31356.9	21684.9
75°	3535.0	3728.5	4564.7	6543.0	11848.9	22393.3	30178.5	30586.3	29366.5	27958.4	17714.6
77.5°	2363.6	2436.1	2978.6	3814.9	5368.1	12883.8	23201.9	23969.0	24395.8	20389.1	11328.8
80°	1318.3	1456.5	1974.8	2370.5	2387.7	5119.3	13911.8	14091.5	13573.2	8118.7	3495.2
82.5°	698.0	774.0	1318.3	1392.6	1302.7	1713.9	5185.0	5190.1	4336.6	2177.0	1038.4
85°	540.8	604.7	903.6	850.1	665.2	760.2	1710.5	1803.8	1475.5	891.5	338.6
87.5°	269.5	335.2	613.3	539.1	260.9	217.7	611.6	653.1	582.3	349.0	122.7
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°	9022.3	9022.3	9022.3	9022.3	9022.3	9022.3	9022.3	9022.3	9022.3	9022.3	9022.3
2.5°	9044.7	9060.3	9079.3	9058.6	9051.7	9024.0	8977.4	8967.0	8942.8	8944.5	8958.4
5°	9124.2	9150.1	9139.8	9060.3	8965.3	8832.2	8694.0	8576.5	8498.8	8493.6	8488.4
7.5°	9276.3	9293.5	9212.3	8986.0	8719.9	8412.4	8122.1	7868.2	7714.4	7676.4	7667.7
10°	9514.7	9511.2	9288.4	8832.2	8301.8	7752.4	7285.9	6933.4	6727.8	6667.4	6651.8
12.5°	9780.8	9741.0	9314.3	8552.3	7710.9	6949.0	6358.1	5965.9	5751.7	5682.6	5665.3
15°	10055.5	9957.0	9250.4	8134.2	6985.3	6083.4	5463.1	5100.3	4984.5	4946.5	4939.6
17.5°	10311.2	10121.1	9067.2	7567.5	6157.7	5221.2	4737.5	4592.3	4620.0	4670.1	4671.8
20°	10561.7	10231.7	8773.5	6852.2	5285.2	4511.1	4347.0	4454.1	4585.4	4687.4	4701.2
22.5°	10808.8	10309.5	8395.1	6026.4	4504.2	4112.0	4227.8	4423.0	4573.3	4683.9	4702.9
25°	11016.1	10328.5	7873.3	5145.2	3961.7	3961.7	4170.8	4355.6	4504.2	4613.1	4632.1
27.5°	11092.1	10200.6	7137.3	4329.7	3688.7	3892.6	4091.3	4245.1	4371.2	4487.0	4507.7
30°	11121.5	9963.9	6287.3	3674.9	3576.4	3818.3	3984.2	4115.5	4234.7	4343.6	4362.6
32.5°	11126.7	9678.8	5385.4	3303.4	3498.7	3740.6	3851.1	3966.9	4094.8	4138.0	4144.9
35°	11159.5	9341.9	4435.1	3113.4	3426.1	3668.0	3756.1	3839.1	3631.7	3647.3	3661.1
37.5°	11254.5	9008.5	3640.4	3006.3	3379.5	3630.0	3735.4	3434.8	3272.4	3234.3	3229.2
40°	11432.5	8652.6	3051.2	2919.9	3362.2	3649.0	3602.4	3206.7	2926.8	2717.7	2686.6
42.5°	11679.6	8269.0	2674.6	2862.9	3374.3	3740.6	3417.5	2987.3	2522.5	2387.7	2370.5
45°	11957.7	7866.4	2470.7	2823.1	3415.8	3811.4	3379.5	2695.3	2334.2	2232.2	2223.6
47.5°	12227.3	7374.0	2365.3	2805.9	3472.8	3754.4	3218.8	2605.4	2244.3	2190.8	2196.0
50°	12536.5	6930.0	2301.4	2786.9	3522.9	3718.1	3037.4	2558.8	2209.8	2275.4	2344.6
52.5°	12797.4	6470.4	2244.3	2748.8	3541.9	3654.2	2990.7	2567.4	2209.8	2335.9	2401.6
55°	13106.7	6123.1	2178.7	2669.4	3505.6	3472.8	2957.9	2619.3	2235.7	2156.2	2163.1
57.5°	13505.8	6009.1	2106.1	2545.0	3384.7	3208.4	2942.4	2669.4	2220.2	2170.0	2187.3
60°	14058.7	6130.0	2076.8	2382.6	3196.3	3001.1	2944.1	2643.5	2111.3	2024.9	2026.6
62.5°	14585.6	6264.8	2075.0	2280.6	2964.8	2816.2	2904.3	2558.8	2056.0	2005.9	2024.9
65°	14758.4	6128.3	1992.1	2166.6	2703.9	2595.1	2831.8	2468.9	2014.6	1938.5	1935.1
67.5°	14526.9	5705.0	1824.5	1981.7	2405.0	2337.6	2736.7	2361.8	1948.9	1886.7	1876.3
70°	13839.2	4759.9	1617.2	1738.1	2064.7	2047.4	2586.4	2237.4	1860.8	1807.2	1762.3
72.5°	11988.8	3391.6	1363.2	1446.1	1681.1	1736.4	2379.1	2075.0	1736.4	1620.6	1551.5
75°	9846.4	2510.4	1119.6	1136.9	1276.8	1427.1	2094.0	1885.0	1589.5	1392.6	1339.0
77.5°	6029.8	1536.0	891.5	898.4	915.7	1138.6	1724.3	1672.5	1402.9	1161.0	1123.0
80°	1952.4	838.0	644.4	677.3	625.4	834.5	1333.8	1423.7	1204.2	971.0	929.5
82.5°	742.9	489.0	435.4	457.9	433.7	559.8	972.7	1140.3	986.5	798.2	649.6
85°	359.4	276.4	257.4	288.5	267.8	286.8	622.0	839.7	748.1	520.1	483.8
87.5°	127.9	122.7	98.5	133.0	114.0	101.9	190.1	423.3	494.1	357.6	319.6
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)