

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: P318083

Luminaire Tested: **GAN-SA9B-740-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318083  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9B-740-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 50134 lumens  
Efficiency: N/A  
Efficacy: 134.0 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

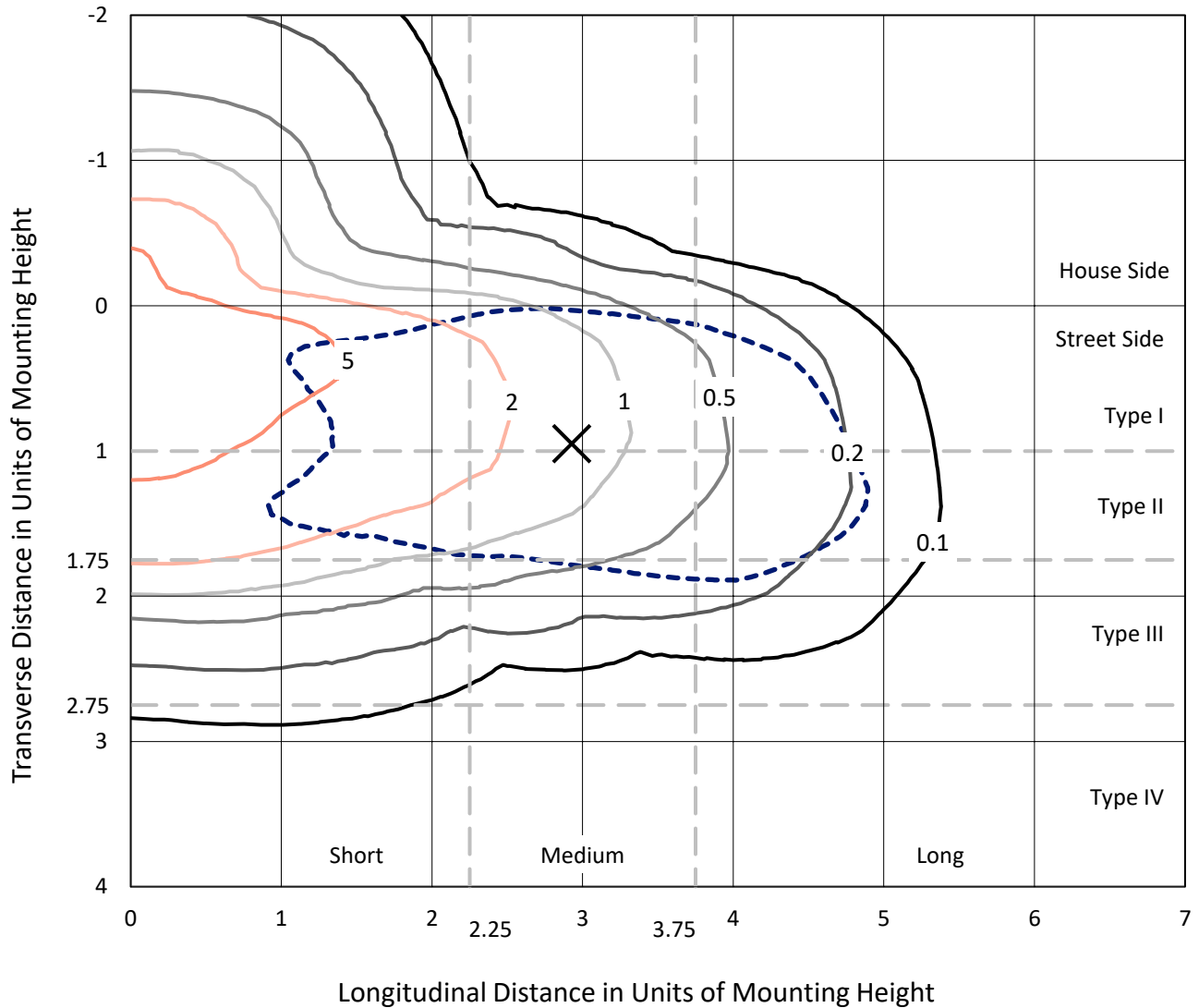
Input Watts (W): 374  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P318083  
 CATALOG NUMBER: GAN-SA9B-740-U-T2

### Iso-Footcandle Lines of Horizontal Illumination

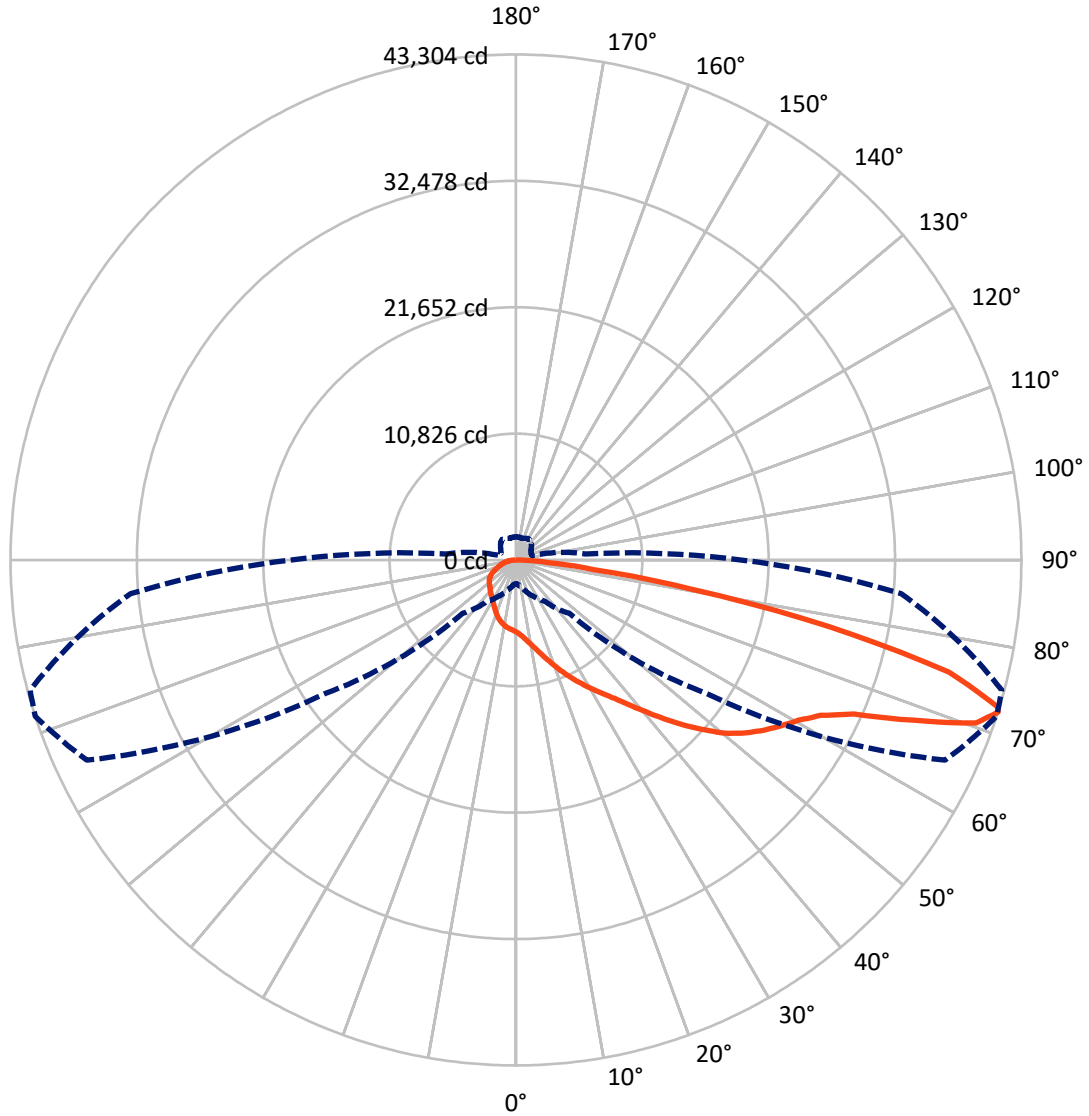
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.5 fc  
 Type III - Medium - N/A

REPORT NUMBER: P318083  
CATALOG NUMBER: GAN-SA9B-740-U-T2

### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P318083  
 CATALOG NUMBER: GAN-SA9B-740-U-T2

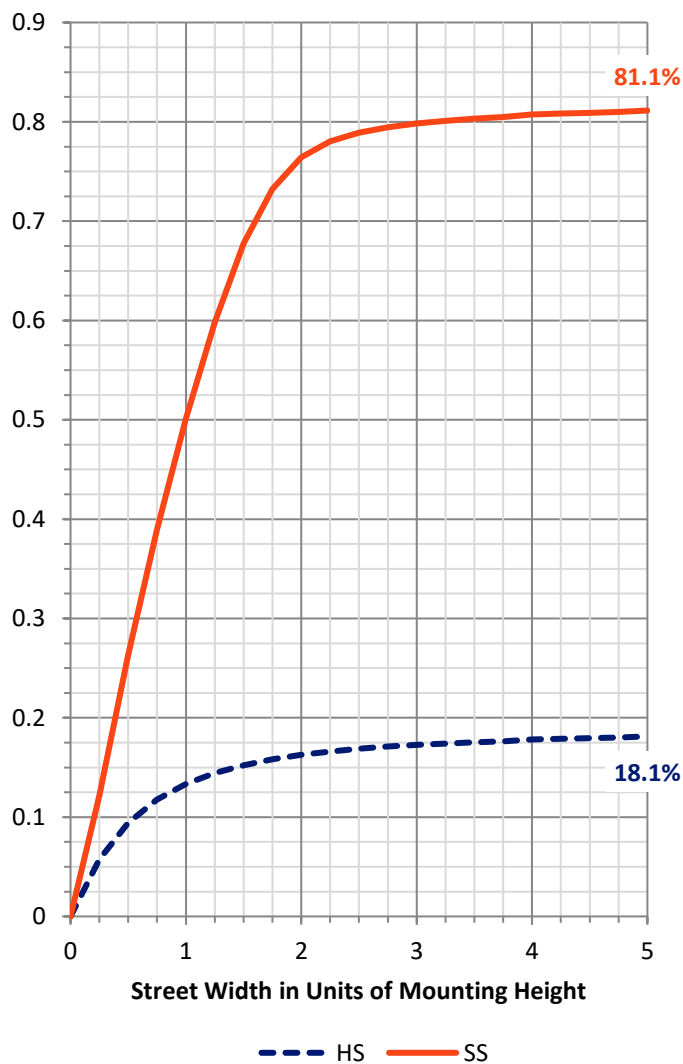
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9300.2	0.0	9300.2
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	40833.8	0.0	40833.8
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	50134.0	0.0	50134.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	618.0	1.2
10°-20°	1997.2	4.0
20°-30°	3499.7	7.0
30°-40°	5188.9	10.4
40°-50°	7589.2	15.1
50°-60°	10442.7	20.8
60°-70°	11625.8	23.2
70°-80°	7877.7	15.7
80°-90°	1294.8	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°	50134.0	100.0
0°-180°	50134.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P318083

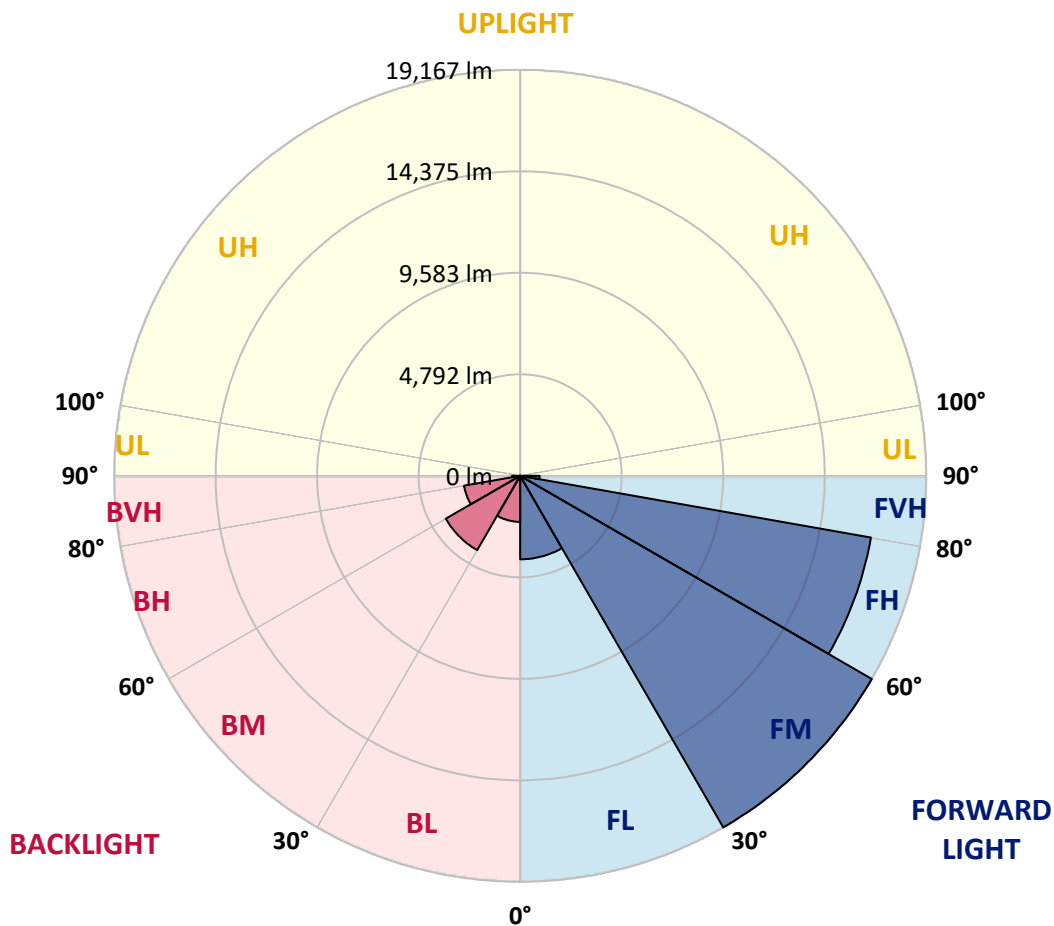
CATALOG NUMBER: GAN-SA9B-740-U-T2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3940.8	7.9			
FM (30°-60°)	19166.8	38.2			
FH (60°-80°)	16812.8	33.5			G5
FVH (80°-90°)	913.3	1.8			G5
BL (0°-30°)	2174.0	4.3	B3/2500		
BM (30°-60°)	4054.0	8.1	B3/5000		
BH (60°-80°)	2690.7	5.4	B4/5000		G4/5000
BVH (80°-90°)	381.5	0.8			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 III Medium





REPORT NUMBER: P318083

CATALOG NUMBER: GAN-SA9B-740-U-T2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	6167.8	6167.8	6167.8	6167.8	6167.8	6167.8	6167.8	6167.8	6167.8	6167.8	6167.8
2.5°	6813.4	6803.0	6766.8	6766.8	6697.7	6639.0	6528.6	6454.3	6366.3	6335.2	6231.7
5°	7472.8	7476.3	7431.4	7400.3	7298.5	7174.2	6986.0	6815.1	6644.2	6575.2	6362.9
7.5°	8026.9	8020.0	8007.9	7982.0	7887.1	7759.4	7505.6	7251.9	6999.8	6896.3	6530.3
10°	8382.5	8398.1	8408.4	8420.5	8380.8	8289.3	8049.4	7740.4	7410.7	7269.1	6730.5
12.5°	8562.1	8589.7	8638.0	8720.9	8786.5	8776.1	8601.8	8273.8	7881.9	7704.1	6980.8
15°	8667.4	8703.6	8779.6	8928.0	9112.7	9218.0	9171.4	8874.5	8437.8	8218.5	7286.4
17.5°	8733.0	8762.3	8879.7	9078.2	9352.7	9632.3	9754.9	9506.3	9066.1	8815.8	7636.8
20°	8777.8	8800.3	8947.0	9180.0	9535.6	9981.0	10322.8	10260.7	9758.3	9433.8	8002.8
22.5°	8878.0	8896.9	9036.8	9271.5	9665.1	10239.9	10870.0	10963.2	10488.5	10120.8	8394.6
25°	9157.6	9157.6	9275.0	9439.0	9808.4	10464.4	11332.6	11745.2	11234.3	10806.1	8757.1
27.5°	9691.0	9685.8	9729.0	9786.0	10065.6	10692.2	11745.2	12435.7	12007.6	11539.8	9109.3
30°	10322.8	10357.3	10362.5	10334.9	10466.1	10977.0	12126.7	13164.2	12786.1	12282.1	9470.1
32.5°	11135.9	11158.3	11132.4	11040.9	11021.9	11381.0	12501.3	13927.2	13628.5	13057.1	9799.8
35°	12168.1	12125.0	12043.8	11857.4	11679.6	11921.3	12929.4	14690.1	14574.5	13994.5	10253.8
37.5°	13274.6	13276.4	13176.2	12753.3	12508.2	12611.8	13519.8	15555.0	15719.0	15109.6	10835.5
40°	14161.9	14208.5	14270.7	13714.8	13397.2	13540.5	14270.7	16557.9	17072.3	16431.9	11593.3
42.5°	14781.6	14835.1	15011.2	14662.5	14332.8	14598.7	15154.5	17628.2	18591.4	17957.9	12480.6
45°	15437.6	15466.9	15591.2	15441.1	15230.5	15829.5	16150.5	18736.4	20198.5	19584.0	13473.2
47.5°	16128.1	16159.2	16286.9	16186.8	16076.3	16979.1	17189.7	19780.8	21738.3	21370.6	14533.1
50°	16980.8	17001.6	17122.4	16941.1	16975.7	17845.7	18118.4	20738.8	23352.3	22976.0	15596.4
52.5°	18144.3	18149.5	18316.9	18152.9	17990.7	18480.9	18917.7	21641.6	24617.6	24439.8	16659.8
55°	19055.8	19111.0	19659.9	19625.4	19532.2	19057.5	19585.7	22501.3	25746.6	25831.2	17788.7
57.5°	18474.0	18689.8	19801.5	20585.2	21348.2	20492.0	20488.5	23469.7	26796.1	27196.6	19029.9
60°	16179.9	16473.3	18111.5	19849.8	22237.2	22988.1	22363.2	24652.2	27856.0	28550.0	20585.2
62.5°	11555.3	12038.7	14258.6	17034.4	21018.5	24641.8	26178.2	26528.6	29297.4	30117.4	22606.6
65°	5841.5	6207.5	8068.4	11412.1	16792.7	23561.2	30324.5	30637.0	31802.2	32530.6	25719.0
67.5°	3549.1	3687.2	4595.2	6347.3	10295.2	18353.2	31677.9	37484.9	36649.4	37036.1	30157.1
70°	2615.2	2717.1	3283.3	4215.4	5920.9	10769.9	27524.6	42371.8	41822.9	41779.7	33436.9
72°	2036.9	2111.2	2611.8	3405.8	4329.4	6461.2	19949.9	40567.9	43304.0	43086.5	33136.6
72.5°	1931.6	1997.2	2453.0	3205.6	4091.1	5857.1	17937.2	39350.9	43197.0	43098.6	32748.2
75°	1520.8	1567.4	1816.0	2478.9	3202.1	3323.0	9829.1	30495.4	38320.4	39913.7	29454.5
77.5°	1258.4	1265.3	1396.5	1803.9	2496.1	2349.4	4828.2	21158.3	27440.0	29192.1	20864.8
80°	1025.4	1034.0	1096.2	1265.3	1888.5	1738.3	2292.4	12166.4	15363.4	15382.4	9922.3
82.5°	816.5	818.2	887.3	925.3	1356.8	1242.9	1313.7	5712.1	6713.3	6457.8	3566.4
85°	574.8	562.7	866.6	759.5	887.3	797.5	725.0	2261.4	2775.8	2654.9	1116.9
87.5°	191.6	198.5	384.9	492.0	517.9	452.3	322.8	866.6	1047.8	1039.2	353.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P318083  
 CATALOG NUMBER: GAN-SA9B-740-U-T2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6167.8	6167.8	6167.8	6167.8	6167.8	6167.8	6167.8	6167.8	6167.8	6167.8	6167.8
2.5°	6198.9	6143.6	6062.5	5972.7	5902.0	5829.5	5775.9	5748.3	5717.2	5691.4	5722.4
5°	6264.5	6160.9	5988.3	5819.1	5694.8	5584.3	5504.9	5463.5	5425.5	5399.6	5403.1
7.5°	6371.5	6204.0	5914.0	5667.2	5494.6	5375.5	5294.3	5266.7	5242.5	5235.6	5244.3
10°	6485.4	6238.6	5815.6	5487.7	5290.9	5192.5	5156.2	5175.2	5192.5	5208.0	5225.3
12.5°	6614.9	6269.6	5672.4	5277.1	5109.6	5071.6	5107.9	5190.7	5251.2	5287.4	5309.9
15°	6784.1	6297.3	5506.6	5066.5	4954.3	4997.4	5120.0	5263.2	5368.5	5435.9	5446.2
17.5°	6939.4	6295.5	5294.3	4854.1	4828.2	4954.3	5139.0	5340.9	5482.5	5577.4	5596.4
20°	7099.9	6248.9	5047.5	4647.0	4700.5	4907.6	5147.6	5391.0	5561.9	5672.4	5698.3
22.5°	7250.1	6167.8	4776.5	4458.8	4593.5	4845.5	5114.8	5361.6	5532.5	5622.3	5649.9
25°	7352.0	6026.2	4502.0	4300.0	4498.5	4769.6	5007.8	5206.3	5334.0	5378.9	5385.8
27.5°	7403.8	5841.5	4243.1	4161.9	4400.1	4645.3	4809.3	4907.6	4943.9	4940.4	4933.5
30°	7410.7	5598.1	4020.4	4049.7	4286.2	4462.3	4540.0	4521.0	4474.4	4395.0	4401.9
32.5°	7388.2	5323.7	3833.9	3942.7	4141.2	4239.6	4243.1	4151.6	4027.3	3901.3	3866.7
35°	7395.1	5054.4	3669.9	3821.9	3965.1	4008.3	3968.6	3833.9	3664.8	3502.5	3468.0
37.5°	7471.1	4819.6	3528.4	3682.0	3770.1	3780.4	3723.5	3581.9	3457.6	3298.8	3285.0
40°	7652.3	4652.2	3393.8	3524.9	3575.0	3580.2	3499.1	3398.9	3409.3	3324.7	3323.0
42.5°	7978.6	4579.7	3274.6	3361.0	3392.0	3402.4	3340.2	3276.4	3366.1	3310.9	3291.9
45°	8399.8	4596.9	3174.5	3200.4	3257.4	3305.7	3267.7	3190.1	3224.6	2984.6	2905.2
47.5°	8886.6	4707.4	3095.1	3062.3	3160.7	3252.2	3193.5	3076.1	2953.6	2715.3	2670.5
50°	9456.2	4878.3	3022.6	2925.9	3055.4	3179.7	3121.0	2953.6	2768.9	2653.2	2637.7
52.5°	10050.1	5087.2	2950.1	2775.8	2922.5	3124.5	3095.1	2925.9	2698.1	2584.2	2563.4
55°	10723.3	5297.8	2858.6	2601.4	2779.2	3098.6	3083.0	2825.8	2644.6	2580.7	2565.2
57.5°	11560.5	5537.7	2737.8	2420.2	2644.6	3005.4	2957.0	2765.4	2589.3	2541.0	2535.8
60°	12651.5	5891.6	2563.4	2226.8	2480.6	2862.1	2851.7	2677.4	2501.3	2466.8	2459.9
62.5°	14287.9	6476.8	2323.5	2033.5	2297.6	2618.7	2713.6	2558.3	2408.1	2406.4	2409.8
65°	16825.5	7357.2	2062.8	1864.3	2112.9	2413.3	2553.1	2435.7	2313.1	2347.7	2352.8
67.5°	19767.0	8087.3	1807.4	1698.6	1924.7	2218.2	2408.1	2313.1	2187.1	2276.9	2278.6
70°	20745.7	7434.8	1582.9	1534.6	1729.7	2030.0	2251.0	2178.5	2050.8	2140.5	2131.9
72°	<b>19306.1</b>	<b>6002.1</b>	<b>1437.9</b>	<b>1410.3</b>	<b>1582.9</b>	<b>1874.7</b>	<b>2111.2</b>	<b>2052.5</b>	<b>1926.5</b>	<b>1986.9</b>	<b>1964.4</b>
72.5°	18852.1	5722.4	1401.7	1379.3	1543.2	1835.0	2074.9	2021.4	1895.4	1947.2	1926.5
75°	16816.9	4969.8	1204.9	1210.1	1346.5	1641.6	1871.2	1854.0	1724.5	1729.7	1722.8
77.5°	12197.5	3644.1	1015.0	1049.5	1146.2	1443.1	1665.8	1655.4	1513.9	1488.0	1482.8
80°	5660.3	1859.1	826.9	842.4	942.5	1206.6	1420.7	1406.9	1292.9	1260.1	1241.2
82.5°	1938.5	883.8	621.4	631.8	730.2	971.9	1232.5	1223.9	1128.9	1065.1	1025.4
85°	692.2	440.2	435.0	424.7	521.3	764.7	1073.7	1027.1	887.3	756.1	752.6
87.5°	224.4	188.2	224.4	222.7	303.8	517.9	780.3	664.6	643.9	535.1	524.8
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)