

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: P317723

Luminaire Tested: **GAN-SA9B-730-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317723  
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-SA9B-730-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47571 lumens  
Efficiency: N/A  
Efficacy: 127.2 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

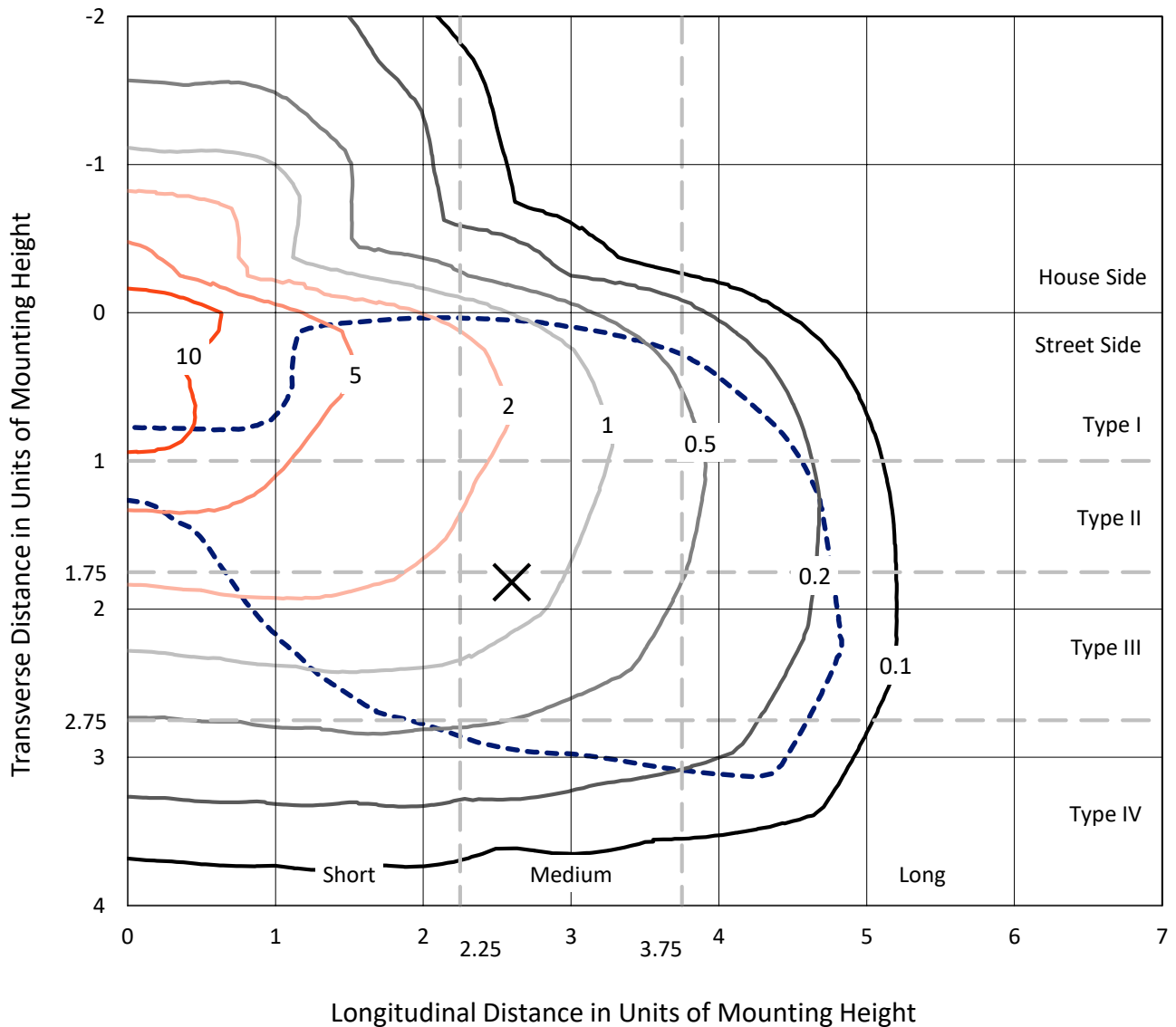
Input Watts (W): 374  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

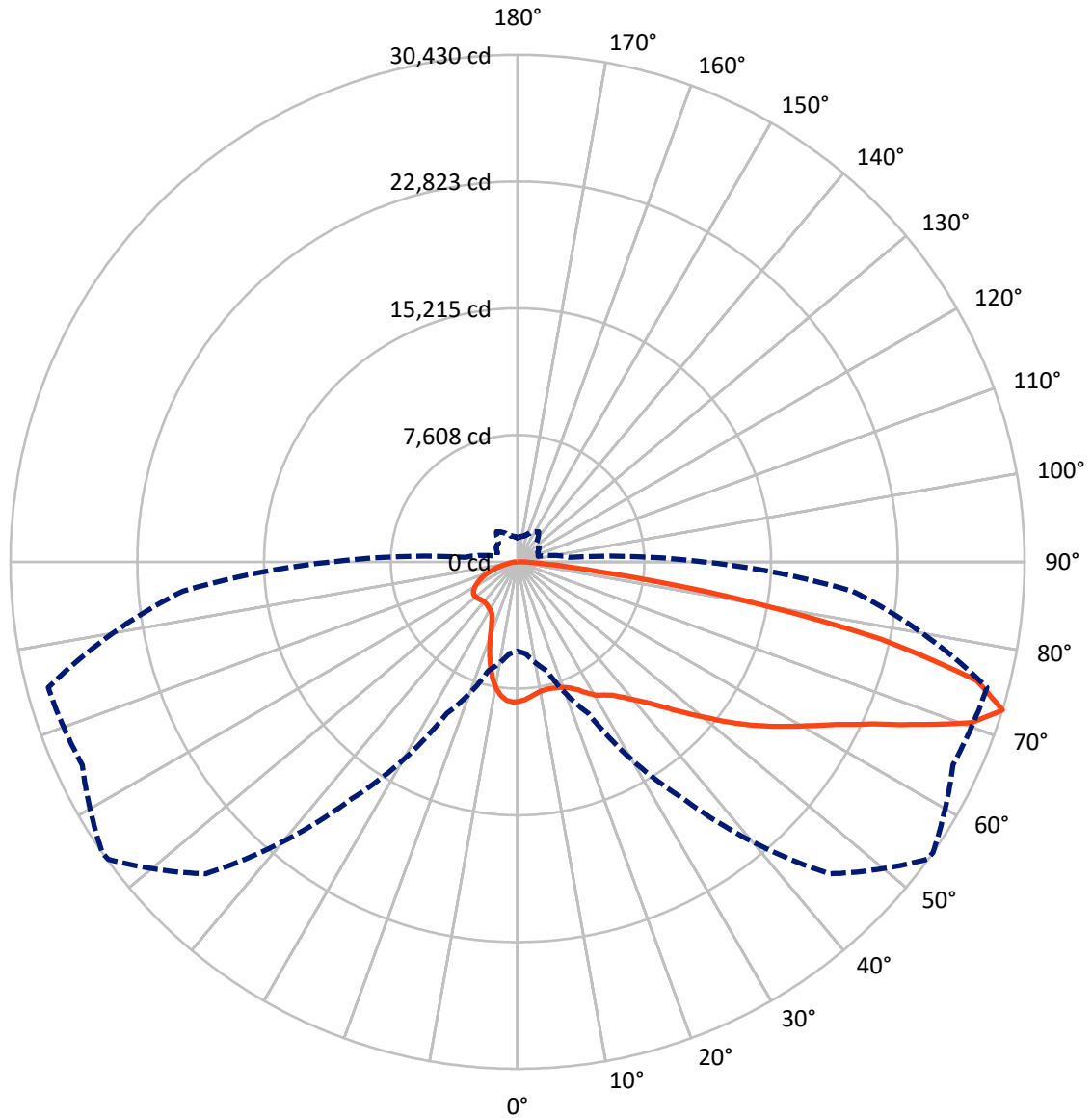
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 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
<b>House Side</b>	Lumens	8841.9	0.0	8841.9
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	38729.1	0.0	38729.1
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	47571.0	0.0	47571.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	759.2	1.6
10°-20°	2021.4	4.2
20°-30°	3332.8	7.0
30°-40°	4930.0	10.4
40°-50°	6881.2	14.5
50°-60°	8959.6	18.8
60°-70°	11011.0	23.1
70°-80°	8631.3	18.1
80°-90°	1044.5	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°	47571.0	100.0
0°-180°	47571.0	100.0

**Coefficient of Utilization**

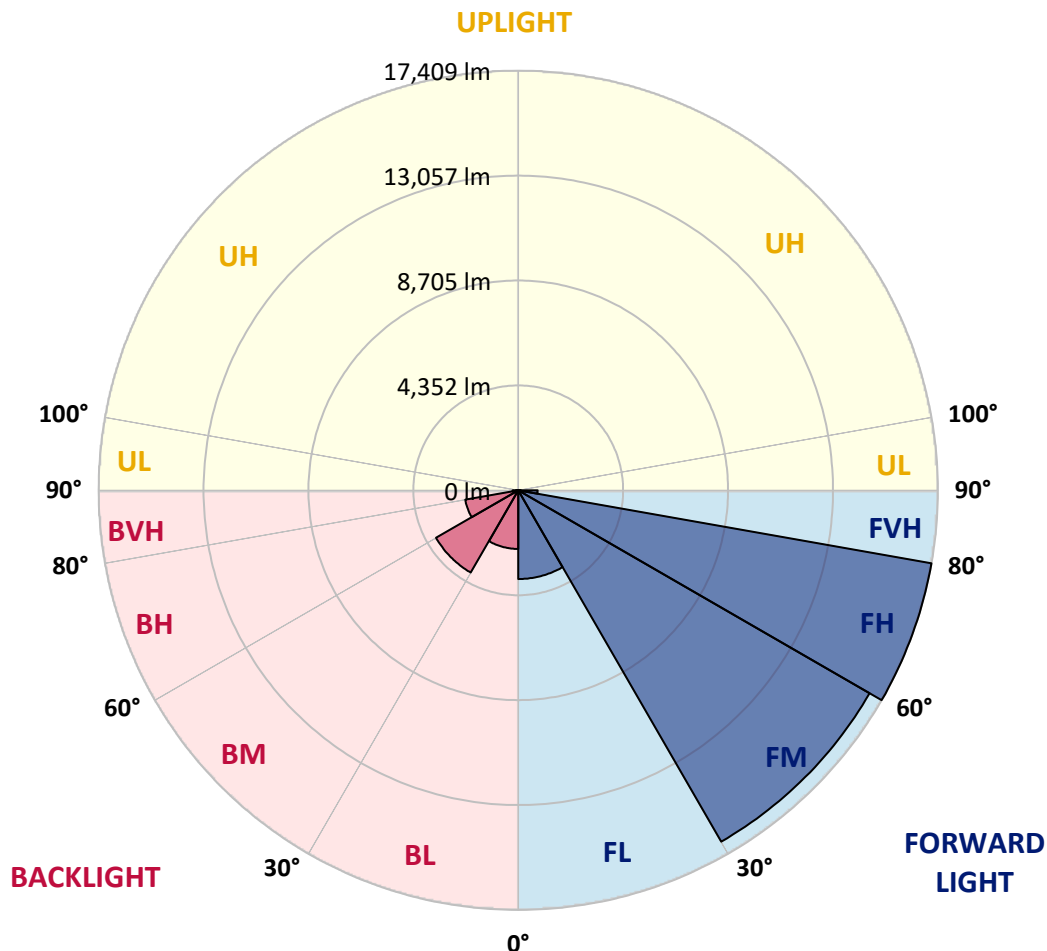


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3680.6	7.7			
FM (30°-60°)	16831.6	35.4			
FH (60°-80°)	17409.4	36.6			G5
FVH (80°-90°)	807.6	1.7			G5
BL (0°-30°)	2432.8	5.1	B3/2500		
BM (30°-60°)	3939.2	8.3	B3/5000		
BH (60°-80°)	2233.0	4.7	B3/2500		G3/2500
BVH (80°-90°)	236.9	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8390.5	8390.5	8390.5	8390.5	8390.5	8390.5	8390.5	8390.5	8390.5	8390.5	8390.5
2.5°	8117.4	8098.1	8122.2	8155.9	8192.9	8242.7	8271.6	8284.5	8334.3	8353.5	8395.3
5°	7741.4	7731.7	7771.9	7829.7	7911.7	8027.4	8120.6	8138.2	8270.0	8363.2	8448.3
7.5°	7468.2	7468.2	7514.8	7583.9	7675.5	7831.3	7963.1	7987.2	8210.5	8411.4	8568.9
10°	7251.3	7259.3	7314.0	7395.9	7503.6	7669.1	7844.2	7871.5	8194.5	8523.9	8774.5
12.5°	7106.7	7126.0	7175.8	7249.7	7383.1	7583.9	7805.6	7842.6	8228.2	8684.5	9022.0
15°	7198.3	7230.4	7235.2	7265.8	7339.7	7558.2	7828.1	7866.7	8300.5	8848.4	9303.1
17.5°	7600.0	7611.2	7561.4	7497.1	7461.8	7601.6	7895.6	7935.8	8387.3	9010.7	9573.1
20°	8210.5	8204.1	8096.5	7922.9	7743.0	7765.5	8006.5	8048.3	8504.6	9153.7	9843.0
22.5°	8981.8	8959.3	8793.8	8474.1	8167.2	8038.6	8200.9	8236.3	8681.3	9357.8	10132.2
25°	9916.9	9867.1	9648.6	9219.6	8768.1	8437.1	8493.3	8527.1	8938.4	9585.9	10397.3
27.5°	10903.5	10853.7	10575.7	10056.7	9455.8	8940.0	8896.6	8925.6	9230.8	9754.6	10593.4
30°	11935.0	11882.0	11628.1	11046.5	10185.3	9460.6	9272.6	9283.9	9436.5	9846.2	10754.0
32.5°	12971.4	12921.6	12637.2	11962.3	10977.4	10019.8	9544.2	9529.7	9560.2	9941.0	10935.6
35°	14022.2	14041.5	13708.9	12961.7	11854.7	10641.6	9865.5	9835.0	9767.5	10135.4	11192.7
37.5°	15146.9	15134.1	14703.5	13922.6	12772.1	11316.4	10326.6	10321.8	10088.8	10503.4	11596.0
40°	15898.9	15906.9	15645.0	14905.9	13699.2	12063.6	10917.9	10906.7	10601.4	11054.5	12124.6
42.5°	16192.9	16246.0	16313.4	15844.3	14669.7	12929.6	11623.3	11607.2	11316.4	11845.0	12746.4
45°	16213.8	16319.9	16737.6	16678.2	15653.1	13921.0	12524.7	12479.7	12270.8	12895.9	13488.8
47.5°	16033.9	16143.1	16837.2	17174.7	16532.0	14967.0	13578.7	13543.4	13363.4	14210.2	14292.1
50°	15640.2	15744.6	16631.6	17417.3	17255.0	15972.8	14793.4	14700.2	14603.8	15728.6	15211.2
52.5°	14902.7	15103.5	16356.8	17475.1	17687.2	16866.2	16070.8	16009.8	16062.8	17330.5	16131.9
55°	13156.2	13381.1	15648.2	17426.9	18007.0	17616.5	17348.2	17345.0	17619.7	19011.2	17120.0
57.5°	12177.6	12336.7	14205.4	17345.0	18386.2	18362.1	18612.7	18643.2	19178.3	20841.3	18154.8
60°	11624.9	11792.0	13474.3	17041.3	18974.2	19326.1	19902.9	19964.0	20762.6	22867.4	19400.0
62.5°	11122.0	11305.2	13021.2	16422.7	19666.7	20704.7	21448.6	21503.3	22440.0	24949.8	20603.5
65°	10262.4	10469.6	12357.6	16016.2	20296.6	22502.7	23413.7	23450.7	24366.5	27131.7	21524.2
67.5°	9047.7	9237.3	11105.9	15118.0	20762.6	24686.3	26026.3	26047.2	26277.0	28672.6	21994.9
70°	7628.9	7701.2	9322.4	13263.8	20211.4	26728.5	28889.5	28894.4	28018.7	29659.2	21917.8
72.5°	5360.2	5530.5	6767.7	10040.6	17369.1	26479.4	30375.8	30430.4	28828.5	29161.1	20166.4
75°	3287.4	3467.4	4245.1	6084.8	11019.2	20825.2	28065.3	28444.5	27310.1	26000.6	16474.1
77.5°	2198.0	2265.5	2770.1	3547.7	4992.2	11981.6	21577.2	22290.6	22687.5	18961.4	10535.5
80°	1226.0	1354.5	1836.5	2204.5	2220.5	4760.8	12937.6	13104.7	12622.7	7550.2	3250.5
82.5°	649.1	719.8	1226.0	1295.0	1211.5	1593.9	4821.9	4826.7	4033.0	2024.5	965.7
85°	502.9	562.4	840.3	790.5	618.6	707.0	1590.7	1677.5	1372.2	829.1	314.9
87.5°	250.7	311.7	570.4	501.3	242.6	202.5	568.8	607.4	541.5	324.6	114.1
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°	8390.5	8390.5	8390.5	8390.5	8390.5	8390.5	8390.5	8390.5	8390.5	8390.5	8390.5
2.5°	8411.4	8425.8	8443.5	8424.2	8417.8	8392.1	8348.7	8339.1	8316.6	8318.2	8331.1
5°	8485.3	8509.4	8499.8	8425.8	8337.5	8213.8	8085.2	7976.0	7903.7	7898.8	7894.0
7.5°	8626.7	8642.8	8567.2	8356.8	8109.3	7823.3	7553.4	7317.2	7174.2	7138.8	7130.8
10°	8848.4	8845.2	8637.9	8213.8	7720.5	7209.5	6775.7	6447.9	6256.7	6200.5	6186.0
12.5°	9095.9	9058.9	8662.0	7953.5	7171.0	6462.4	5912.9	5548.1	5348.9	5284.6	5268.6
15°	9351.3	9259.8	8602.6	7564.6	6496.1	5657.4	5080.6	4743.2	4635.5	4600.2	4593.7
17.5°	9589.1	9412.4	8432.3	7037.6	5726.5	4855.6	4405.7	4270.8	4296.5	4343.1	4344.7
20°	9822.1	9515.2	8159.1	6372.4	4915.1	4195.3	4042.6	4142.2	4264.3	4359.1	4372.0
22.5°	10051.9	9587.5	7807.2	5604.4	4188.8	3824.1	3931.7	4113.3	4253.1	4355.9	4373.6
25°	10244.7	9605.2	7322.0	4784.9	3684.3	3684.3	3878.7	4050.6	4188.8	4290.0	4307.7
27.5°	10315.4	9486.3	6637.5	4026.5	3430.4	3620.0	3804.8	3947.8	4065.1	4172.8	4192.0
30°	10342.7	9266.2	5847.0	3417.6	3326.0	3550.9	3705.2	3827.3	3938.2	4039.4	4057.1
32.5°	10347.5	9001.1	5008.3	3072.1	3253.7	3478.6	3581.5	3689.1	3808.0	3848.2	3854.6
35°	10378.1	8687.8	4124.6	2895.4	3186.2	3411.2	3493.1	3570.2	3377.4	3391.9	3404.7
37.5°	10466.4	8377.6	3385.4	2795.8	3142.8	3375.8	3473.8	3194.2	3043.2	3007.9	3003.0
40°	10631.9	8046.7	2837.5	2715.4	3126.8	3393.5	3350.1	2982.1	2721.9	2527.4	2498.5
42.5°	10861.7	7690.0	2487.3	2662.4	3138.0	3478.6	3178.2	2778.1	2345.9	2220.5	2204.5
45°	11120.4	7315.6	2297.7	2625.4	3176.6	3544.5	3142.8	2506.5	2170.7	2075.9	2067.9
47.5°	11371.0	6857.7	2199.7	2609.4	3229.6	3491.5	2993.4	2423.0	2087.2	2037.4	2042.2
50°	11658.7	6444.7	2140.2	2591.7	3276.2	3457.7	2824.7	2379.6	2055.0	2116.1	2180.4
52.5°	11901.3	6017.3	2087.2	2556.4	3293.9	3398.3	2781.3	2387.6	2055.0	2172.3	2233.4
55°	12188.9	5694.4	2026.1	2482.4	3260.1	3229.6	2750.8	2435.8	2079.1	2005.2	2011.7
57.5°	12560.0	5588.3	1958.6	2366.8	3147.6	2983.8	2736.3	2482.4	2064.7	2018.1	2034.2
60°	13074.2	5700.8	1931.3	2215.7	2972.5	2790.9	2737.9	2458.3	1963.5	1883.1	1884.7
62.5°	13564.3	5826.1	1929.7	2120.9	2757.2	2619.0	2701.0	2379.6	1912.0	1865.4	1883.1
65°	13724.9	5699.2	1852.6	2014.9	2514.6	2413.4	2633.5	2296.1	1873.5	1802.8	1799.6
67.5°	13509.6	5305.5	1696.7	1843.0	2236.6	2173.9	2545.1	2196.4	1812.4	1754.6	1744.9
70°	12870.1	4426.6	1503.9	1616.4	1920.1	1904.0	2405.3	2080.8	1730.5	1680.7	1638.9
72.5°	11149.3	3154.1	1267.7	1344.9	1563.4	1614.8	2212.5	1929.7	1614.8	1507.1	1442.9
75°	9156.9	2334.6	1041.2	1057.2	1187.4	1327.2	1947.4	1753.0	1478.2	1295.0	1245.2
77.5°	5607.6	1428.4	829.1	835.5	851.6	1058.9	1603.5	1555.3	1304.7	1079.7	1044.4
80°	1815.6	779.3	599.3	629.8	581.6	776.1	1240.4	1324.0	1119.9	903.0	864.4
82.5°	690.9	454.7	404.9	425.8	403.3	520.6	904.6	1060.5	917.5	742.3	604.1
85°	334.2	257.1	239.4	268.3	249.0	266.7	578.4	780.9	695.7	483.6	449.9
87.5°	118.9	114.1	91.6	123.7	106.0	94.8	176.7	393.7	459.5	332.6	297.3
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)