

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: P317444

Luminaire Tested: **GAN-SA0B-740-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317444
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-SA0B-740-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58929 lumens
Efficiency: N/A
Efficacy: 140.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

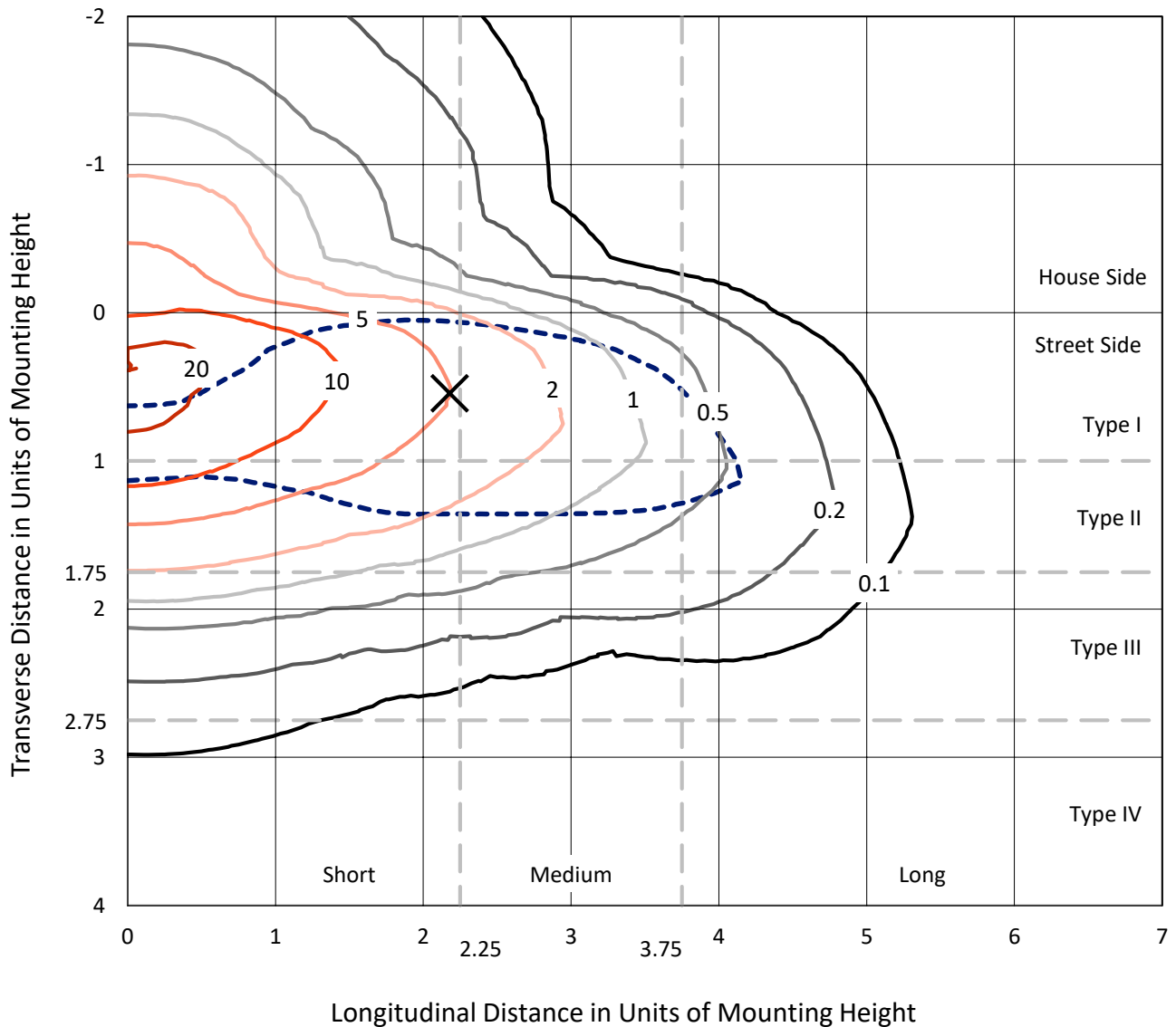
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

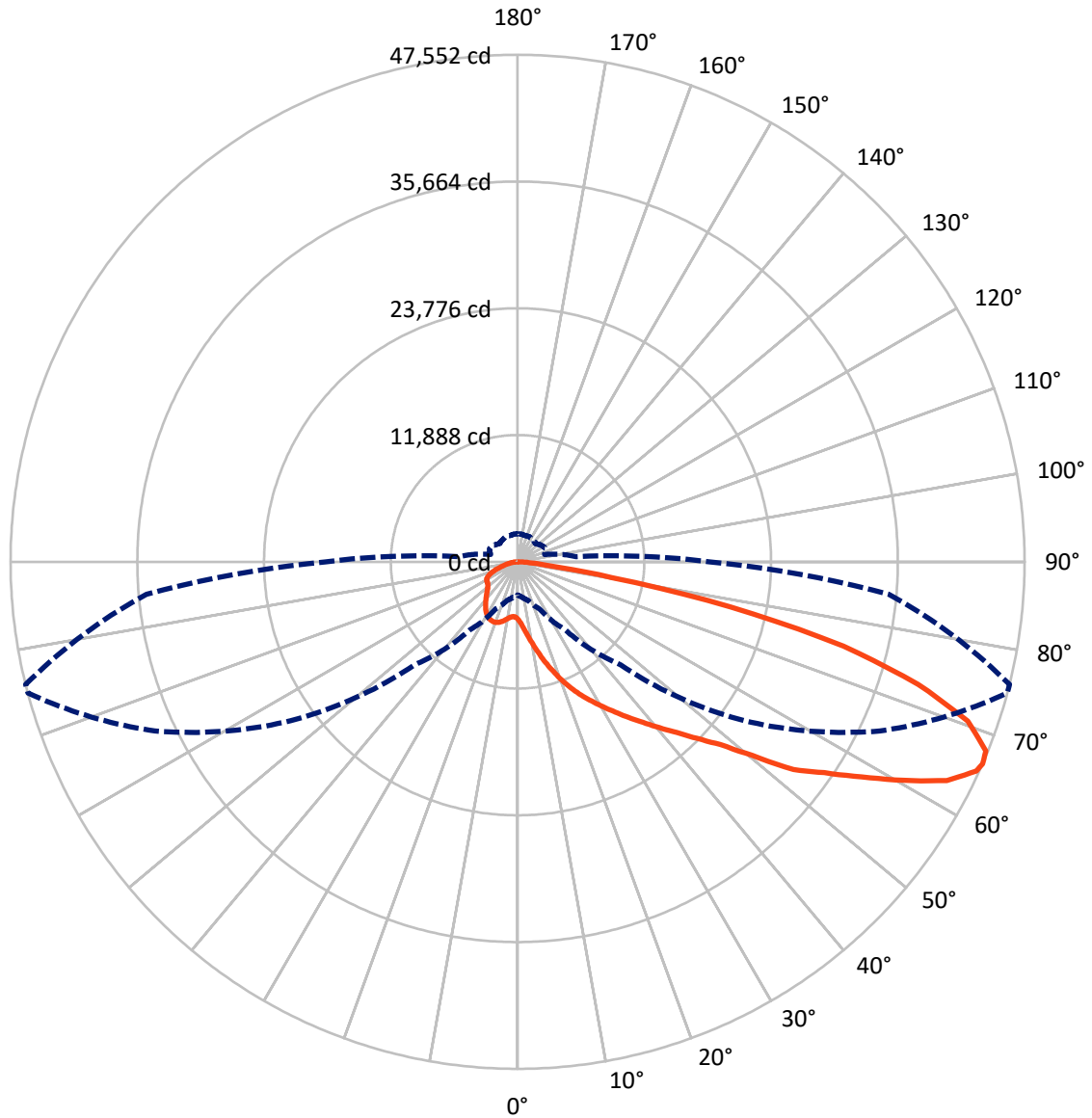
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.8 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
House Side	Lumens	9915.7	0.0	9915.7
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	49013.3	0.0	49013.3
	% Fixture	83.2	0.0	83.2
Total	Lumens	58929.0	0.0	58929.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	650.8	1.1
10°-20°	2569.9	4.4
20°-30°	4993.9	8.5
30°-40°	8151.1	13.8
40°-50°	11136.4	18.9
50°-60°	12971.6	22.0
60°-70°	11629.3	19.7
70°-80°	5877.0	10.0
80°-90°	949.0	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°	58929.0	100.0
0°-180°	58929.0	100.0

Coefficient of Utilization

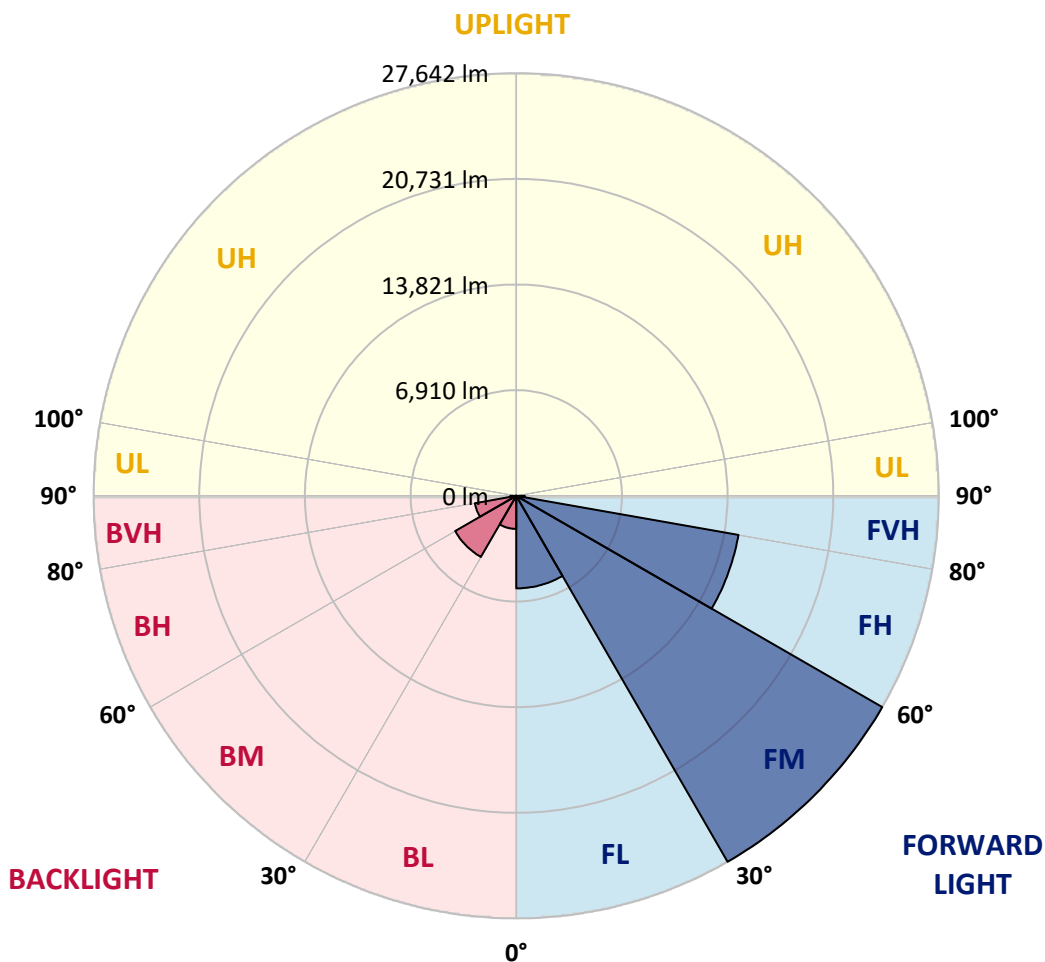


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6051.9	10.3			
FM (30°-60°)	27641.8	46.9			
FH (60°-80°)	14759.2	25.0			G5
FVH (80°-90°)	560.5	1.0			G4/750
BL (0°-30°)	2162.7	3.7	B3/2500		
BM (30°-60°)	4617.4	7.8	B3/5000		
BH (60°-80°)	2747.1	4.7	B4/5000		G4/5000
BVH (80°-90°)	388.6	0.7			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5381.5	5381.5	5381.5	5381.5	5381.5	5381.5	5381.5	5381.5	5381.5	5381.5	5381.5
2.5°	7144.1	7036.0	7026.0	6868.0	6832.0	6529.9	6307.8	6075.7	5811.7	5759.7	5551.6
5°	9176.6	9166.6	9028.6	8770.5	8568.5	8052.3	7542.2	7002.0	6409.8	6313.8	5845.7
7.5°	11005.2	10989.2	10883.1	10605.0	10313.0	9678.8	8950.6	8122.3	7162.1	7020.0	6243.8
10°	12393.6	12387.6	12351.6	12147.5	11899.4	11291.2	10487.0	9356.7	8036.3	7842.3	6741.9
12.5°	13465.9	13477.9	13501.9	13429.9	13311.8	12793.7	11969.4	10665.1	8968.6	8776.5	7296.1
15°	14192.1	14228.1	14352.1	14454.2	14516.2	14198.1	13399.9	12003.5	10012.9	9782.8	7910.3
17.5°	14558.2	14598.2	14812.3	15120.3	15404.4	15372.4	14738.2	13279.8	11015.2	10793.1	8570.5
20°	14874.3	14904.3	15144.4	15514.5	16016.6	16238.7	15882.6	14508.2	12113.5	11849.4	9270.7
22.5°	15790.5	15828.5	15900.6	16110.6	16554.8	16962.9	16790.8	15670.5	13119.8	12873.7	9934.9
25°	17559.0	17605.1	17449.0	17271.0	17355.0	17639.1	17671.1	16730.8	14140.1	13862.0	10649.1
27.5°	19689.7	19755.7	19489.6	19031.5	18631.4	18521.3	18483.3	17599.1	15114.3	14792.3	11355.3
30°	21776.3	21890.3	21544.2	20950.0	20215.8	19699.7	19317.6	18449.3	16074.6	15766.5	12021.5
32.5°	23814.8	23768.8	23266.7	22686.5	21826.3	21180.1	20255.8	19361.6	17154.9	16800.8	12683.6
35°	25211.2	25227.3	24761.1	24072.9	23252.7	22756.5	21512.2	20345.8	18257.2	17931.2	13435.9
37.5°	26399.6	26325.6	25797.4	25155.2	24449.0	24237.0	22982.6	21430.2	19451.6	19095.5	14236.1
40°	26795.7	26709.7	26363.6	25901.4	25335.3	25317.3	24605.1	22658.5	20802.0	20449.9	15138.4
42.5°	26555.6	26445.6	26303.6	26177.5	26003.5	26083.5	26129.5	24098.9	22286.4	21892.3	16182.7
45°	25669.4	25503.3	25603.4	25877.4	26255.5	26707.7	27505.9	25693.4	23948.9	23618.8	17409.0
47.5°	24307.0	24156.9	24469.0	25055.2	26083.5	27227.8	28808.3	27453.9	25933.5	25605.4	19155.5
50°	22390.4	22434.4	22880.6	23946.9	25501.3	27467.9	30412.7	29784.6	28818.3	28512.2	21538.2
52.5°	19245.5	19253.5	20509.9	22260.4	24469.0	27343.9	31303.0	32763.4	32757.4	32387.3	23806.8
55°	16324.7	16502.7	17497.0	19823.7	22796.6	26847.7	31925.2	34211.8	35344.2	34910.0	25921.5
57.5°	13471.9	13575.9	14518.2	16854.8	20409.9	25525.3	32563.4	35950.3	38325.0	38050.9	28550.2
60°	10226.9	10387.0	11361.3	13519.9	17357.0	23178.7	32623.4	37764.9	41888.0	41612.0	31485.0
62.5°	6637.9	6914.0	7826.2	9848.8	13663.9	19803.7	31231.0	38951.2	45265.0	45167.0	34089.8
65°	3815.1	4023.2	4657.3	6217.8	9426.7	15566.5	27920.0	38495.1	47343.6	47287.6	35064.1
66°	3116.9	3246.9	3733.1	4859.4	7778.2	13669.9	25995.5	37532.8	47549.7	47551.7	34952.0
67.5°	2492.7	2550.7	2768.8	3479.0	5739.6	10835.1	22556.5	35410.2	47293.6	47363.6	34229.8
70°	2062.6	2092.6	2160.6	2332.7	3132.9	6533.9	16010.6	29894.6	44722.9	44776.9	31411.0
72.5°	1850.5	1868.5	1894.5	1918.6	2210.6	3651.0	9778.8	23914.9	39211.3	39281.3	27115.8
75°	1676.5	1686.5	1682.5	1684.5	1854.5	2326.7	5053.5	17855.1	31705.1	31565.1	20772.0
77.5°	1472.4	1482.4	1462.4	1466.4	1640.5	1788.5	2514.7	12499.6	21396.1	20407.9	11703.4
80°	1244.4	1252.4	1244.4	1258.4	1428.4	1350.4	1462.4	7032.0	9460.7	8948.6	4161.2
82.5°	940.3	974.3	998.3	1054.3	1176.3	960.3	978.3	2738.8	2880.8	2742.8	1276.4
85°	412.1	502.1	752.2	806.2	884.3	576.2	642.2	1116.3	1172.3	1136.3	464.1
87.5°	108.0	118.0	372.1	468.1	490.1	260.1	334.1	508.1	536.2	508.1	154.0
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°	5381.5	5381.5	5381.5	5381.5	5381.5	5381.5	5381.5	5381.5	5381.5	5381.5	5381.5
2.5°	5441.6	5343.5	5167.5	5011.4	4893.4	4813.4	4733.4	4693.3	4669.3	4645.3	4649.3
5°	5615.6	5417.6	5115.5	4901.4	4781.4	4705.4	4665.3	4649.3	4639.3	4615.3	4615.3
7.5°	5877.7	5597.6	5181.5	4961.4	4867.4	4809.4	4785.4	4777.4	4765.4	4737.4	4741.4
10°	6207.8	5815.7	5319.5	5105.5	5019.4	4955.4	4921.4	4909.4	4887.4	4855.4	4859.4
12.5°	6595.9	6085.7	5501.6	5277.5	5173.5	5087.5	5031.4	4997.4	4959.4	4917.4	4919.4
15°	7020.0	6379.8	5697.6	5431.6	5289.5	5169.5	5079.5	5021.4	4961.4	4909.4	4907.4
17.5°	7450.1	6663.9	5847.7	5515.6	5323.5	5165.5	5043.4	4953.4	4879.4	4815.4	4809.4
20°	7914.3	6920.0	5931.7	5507.6	5259.5	5071.5	4909.4	4797.4	4715.4	4651.3	4641.3
22.5°	8386.4	7160.1	5945.7	5425.6	5117.5	4887.4	4717.4	4593.3	4509.3	4443.3	4419.3
25°	8818.5	7346.1	5887.7	5267.5	4919.4	4671.3	4505.3	4379.3	4311.2	4233.2	4209.2
27.5°	9212.6	7476.1	5771.7	5065.5	4697.4	4453.3	4297.2	4189.2	4115.2	4055.2	4035.2
30°	9566.7	7546.2	5581.6	4825.4	4469.3	4247.2	4115.2	4041.2	3977.1	3901.1	3887.1
32.5°	9902.8	7546.2	5337.5	4563.3	4243.2	4065.2	3987.1	3941.1	3869.1	3795.1	3775.1
35°	10238.9	7500.2	5049.5	4289.2	4035.2	3935.1	3931.1	3877.1	3767.1	3667.1	3641.0
37.5°	10593.0	7406.1	4725.4	4033.2	3865.1	3877.1	3911.1	3791.1	3635.0	3493.0	3455.0
40°	10993.2	7276.1	4389.3	3811.1	3723.1	3851.1	3857.1	3667.1	3363.0	3232.9	3198.9
42.5°	11463.3	7146.1	4077.2	3615.0	3611.0	3773.1	3755.1	3399.0	3216.9	3150.9	3132.9
45°	12081.5	7072.0	3781.1	3429.0	3523.0	3647.0	3581.0	3250.9	3174.9	3136.9	3120.9
47.5°	13055.8	7110.0	3509.0	3280.9	3435.0	3521.0	3256.9	3190.9	3136.9	3090.9	3074.9
50°	14276.1	7088.0	3288.9	3178.9	3335.0	3389.0	3110.9	3112.9	3084.9	3032.9	3008.9
52.5°	15194.4	6916.0	3146.9	3120.9	3246.9	3154.9	3018.9	3036.9	3022.9	2946.8	2920.8
55°	16080.6	6767.9	3074.9	3098.9	3182.9	2862.8	2910.8	2954.8	2940.8	2866.8	2854.8
57.5°	17182.9	6739.9	3030.9	3104.9	3128.9	2716.8	2806.8	2864.8	2854.8	2822.8	2816.8
60°	18533.3	6747.9	2990.9	3114.9	3068.9	2608.7	2708.8	2782.8	2788.8	2782.8	2778.8
62.5°	19275.5	6529.9	2890.8	3086.9	2962.9	2514.7	2606.7	2714.8	2716.8	2728.8	2726.8
65°	18645.4	5877.7	2704.8	2988.9	2784.8	2436.7	2518.7	2636.8	2606.7	2660.8	2660.8
66°	18033.2	5501.6	2612.8	2924.8	2708.8	2406.7	2490.7	2596.7	2558.7	2632.8	2632.8
67.5°	16782.8	4867.4	2446.7	2788.8	2600.7	2364.7	2458.7	2530.7	2478.7	2588.7	2580.7
70°	14498.2	3765.1	2112.6	2480.7	2422.7	2302.7	2414.7	2398.7	2322.7	2490.7	2458.7
72.5°	12223.5	2860.8	1696.5	2076.6	2152.6	2224.6	2352.7	2230.6	2134.6	2252.6	2182.6
75°	9484.7	2150.6	1340.4	1614.5	1818.5	2102.6	2278.7	2036.6	1898.5	1886.5	1848.5
77.5°	5127.5	1476.4	1062.3	1232.4	1444.4	1950.6	2228.6	1828.5	1620.5	1572.5	1542.4
80°	2030.6	960.3	772.2	934.3	1010.3	1730.5	2108.6	1586.5	1336.4	1288.4	1242.4
82.5°	838.2	568.2	498.1	626.2	658.2	1480.4	1892.5	1300.4	1032.3	1428.4	1516.4
85°	360.1	312.1	296.1	324.1	372.1	1038.3	1506.4	992.3	1114.3	994.3	790.2
87.5°	108.0	132.0	126.0	124.0	136.0	248.1	802.2	552.2	818.2	310.1	232.1
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)