

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: P318133

Luminaire Tested: **GAN-SA9C-750-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318133  
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-SA9C-750-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 62052 lumens  
Efficiency: N/A  
Efficacy: 123.9 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

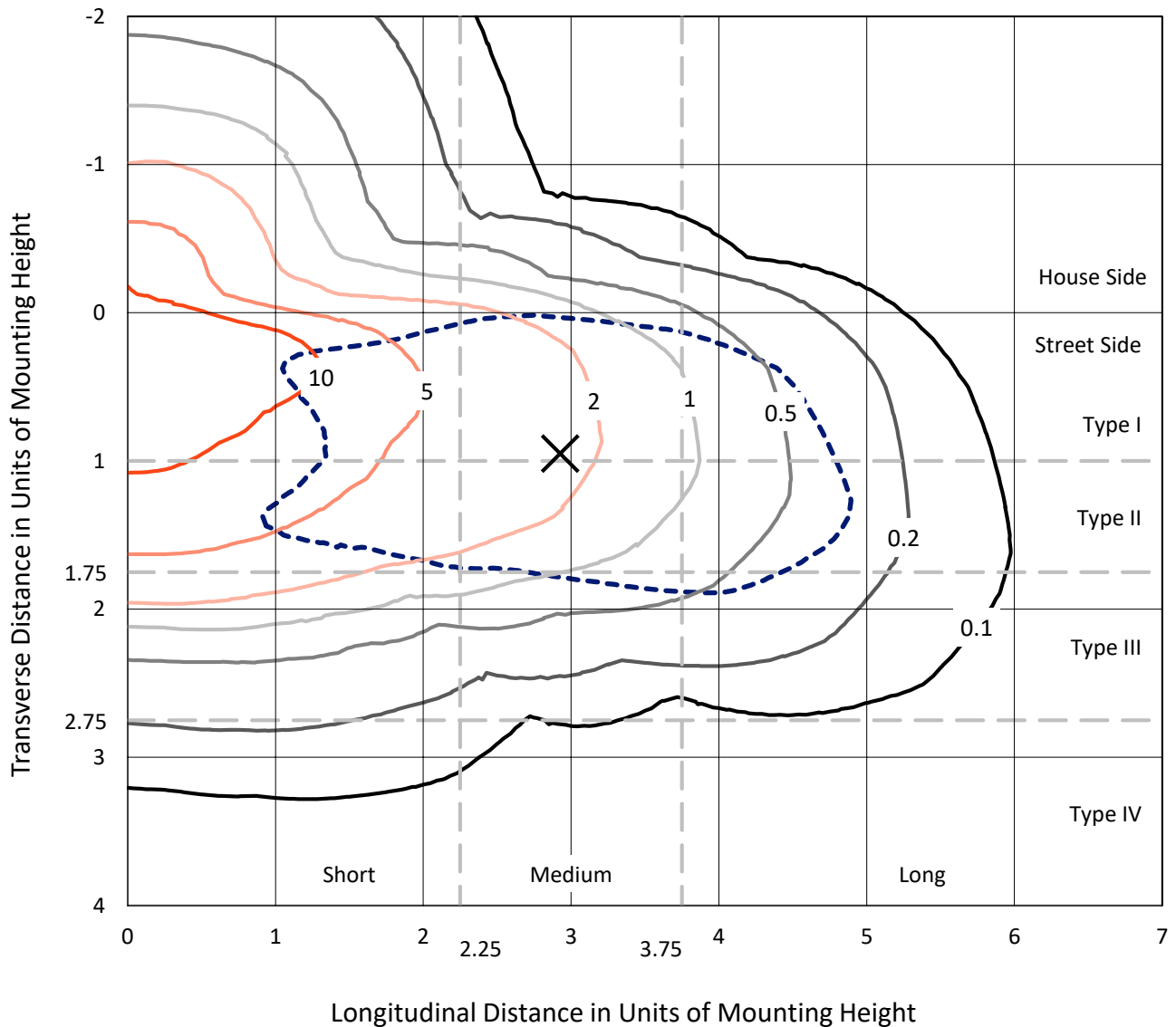
Input Watts (W): 501  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

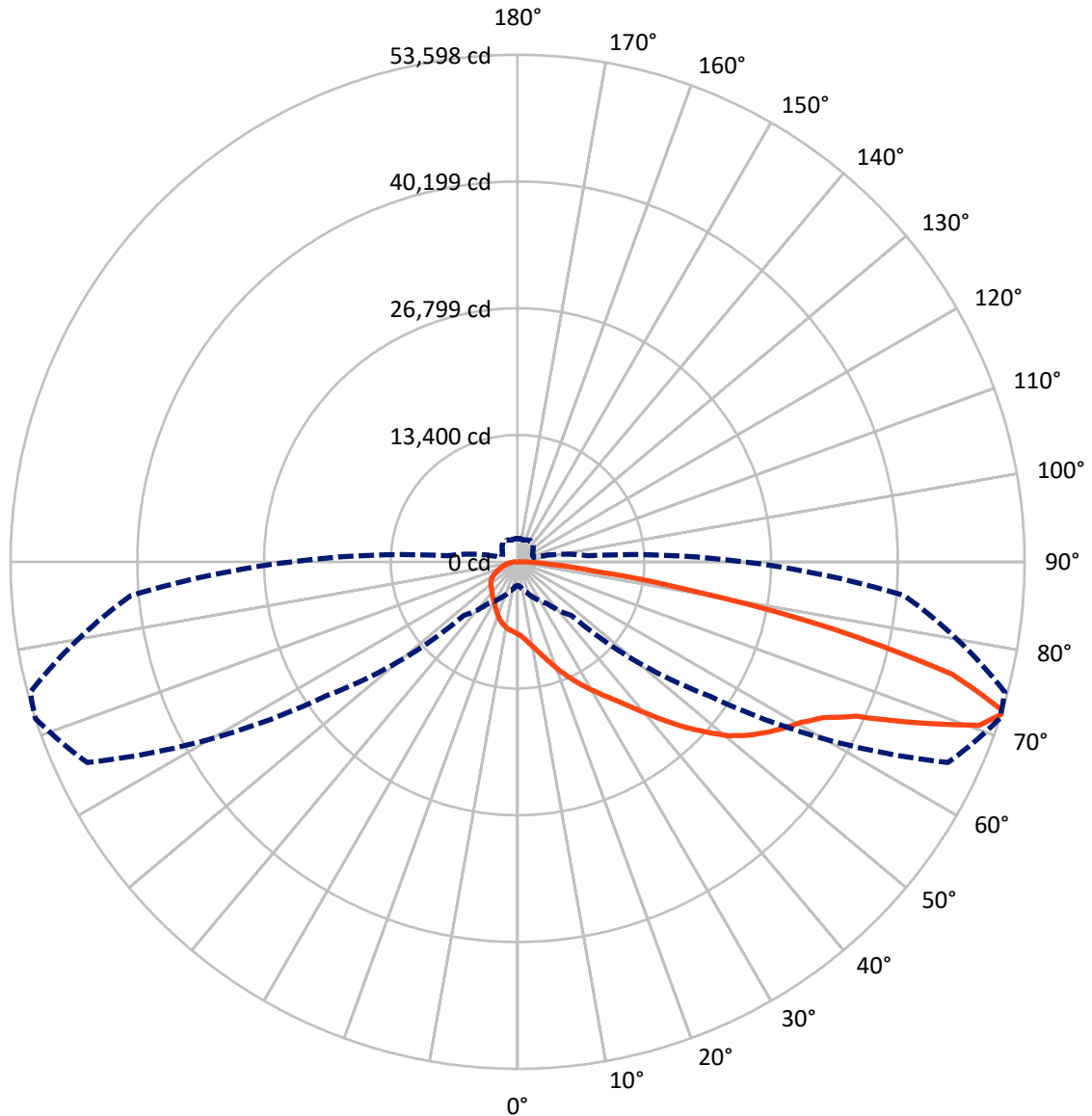
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11511.1	0.0	11511.1
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	50540.9	0.0	50540.9
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	62052.0	0.0	62052.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	764.9	1.2
10°-20°	2471.9	4.0
20°-30°	4331.6	7.0
30°-40°	6422.5	10.4
40°-50°	9393.4	15.1
50°-60°	12925.2	20.8
60°-70°	14389.6	23.2
70°-80°	9750.3	15.7
80°-90°	1602.6	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°	62052.0	100.0
0°-180°	62052.0	100.0

**Coefficient of Utilization**

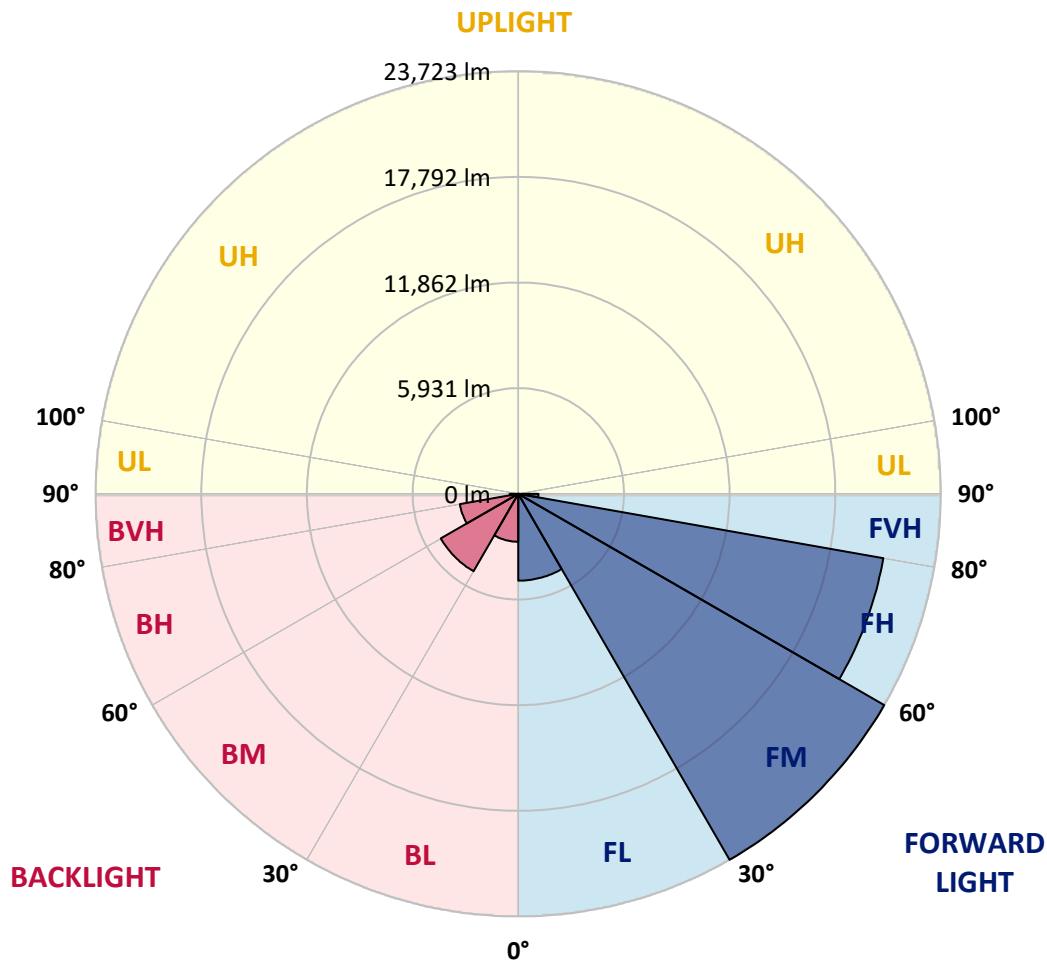


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4877.7	7.9			
FM (30°-60°)	23723.2	38.2			
FH (60°-80°)	20809.6	33.5			G5
FVH (80°-90°)	1130.4	1.8			G5
BL (0°-30°)	2690.9	4.3	B4/5000		
BM (30°-60°)	5017.7	8.1	B4/8500		
BH (60°-80°)	3330.3	5.4	B4/5000		G4/5000
BVH (80°-90°)	472.1	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	7634.0	7634.0	7634.0	7634.0	7634.0	7634.0	7634.0	7634.0	7634.0	7634.0	7634.0
2.5°	8433.1	8420.3	8375.4	8375.4	8289.9	8217.3	8080.6	7988.7	7879.7	7841.3	7713.1
5°	9249.3	9253.5	9198.0	9159.5	9033.5	8879.6	8646.8	8435.2	8223.7	8138.2	7875.4
7.5°	9935.1	9926.6	9911.6	9879.6	9762.1	9603.9	9289.9	8975.8	8663.8	8535.7	8082.7
10°	10375.3	10394.5	10407.3	10422.3	10373.1	10259.9	9962.9	9580.4	9172.4	8997.2	8330.5
12.5°	10597.5	10631.6	10691.5	10794.0	10875.2	10862.4	10646.6	10240.6	9755.6	9535.6	8640.3
15°	10727.8	10772.7	10866.7	11050.4	11279.0	11409.4	11351.7	10984.2	10443.6	10172.3	9018.5
17.5°	10809.0	10845.3	10990.6	11236.3	11576.0	11922.1	12073.8	11766.2	11221.3	10911.5	9452.2
20°	10864.5	10892.3	11073.9	11362.4	11802.5	12353.7	12776.8	12699.9	12078.1	11676.4	9905.2
22.5°	10988.5	11012.0	11185.0	11475.6	11962.7	12674.2	13454.1	13569.4	12981.9	12526.8	10390.2
25°	11334.6	11334.6	11479.9	11682.8	12140.1	12952.0	14026.7	14537.3	13904.9	13375.0	10838.9
27.5°	11994.8	11988.4	12041.8	12112.3	12458.4	13234.0	14537.3	15392.0	14862.1	14283.1	11274.8
30°	12776.8	12819.5	12825.9	12791.7	12954.1	13586.5	15009.5	16293.6	15825.7	15201.8	11721.3
32.5°	13783.1	13810.9	13778.8	13665.6	13642.1	14086.5	15473.1	17238.0	16868.3	16161.1	12129.4
35°	15060.8	15007.4	14906.9	14676.2	14456.1	14755.2	16003.0	18182.3	18039.2	17321.3	12691.3
37.5°	16430.3	16432.5	16308.5	15785.1	15481.7	15609.9	16733.7	19252.8	19455.7	18701.5	13411.3
40°	17528.5	17586.2	17663.1	16975.2	16582.0	16759.4	17663.1	20494.1	21130.8	20338.1	14349.3
42.5°	18295.6	18361.8	18579.7	18148.1	17740.1	18069.1	18757.1	21818.8	23011.0	22226.9	15447.5
45°	19107.5	19143.8	19297.6	19111.7	18851.1	19592.5	19989.9	23190.5	25000.2	24239.5	16676.0
47.5°	19962.1	20000.6	20158.7	20034.7	19898.0	21015.4	21276.1	24483.1	26906.0	26450.9	17987.9
50°	21017.6	21043.2	21192.8	20968.4	21011.2	22088.0	22425.6	25668.9	28903.7	28437.9	19304.0
52.5°	22457.6	22464.0	22671.3	22468.3	22267.5	22874.3	23414.8	26786.4	30469.8	30249.8	20620.2
55°	23585.8	23654.1	24333.6	24290.8	24175.4	23587.9	24241.7	27850.4	31867.2	31971.8	22017.5
57.5°	22865.7	23132.8	24508.8	25478.8	26423.1	25363.4	25359.1	29049.0	33166.2	33661.9	23553.7
60°	20026.2	20389.4	22417.0	24568.6	27523.5	28452.9	27679.4	30512.6	34478.1	35337.0	25478.8
62.5°	14302.3	14900.5	17648.2	21083.8	26015.0	30499.7	32401.3	32835.0	36262.1	37277.0	27980.7
65°	7230.2	7683.2	9986.4	14125.0	20784.7	29162.2	37533.4	37920.1	39362.3	40263.9	31833.0
67.5°	4392.8	4563.7	5687.6	7856.2	12742.6	22716.2	39208.5	46395.9	45361.8	45840.4	37326.1
70°	3236.9	3363.0	4063.8	5217.5	7328.5	13330.1	34067.8	52444.6	51765.2	51711.7	41385.6
72°	2521.2	2613.0	3232.7	4215.5	5358.6	7997.2	24692.5	50211.9	53598.3	53329.1	41013.9
72.5°	2390.8	2472.0	3036.1	3967.6	5063.7	7249.4	22201.2	48705.6	53465.9	53344.1	40533.1
75°	1882.3	1940.0	2247.7	3068.1	3963.4	4112.9	12165.7	37744.9	47430.0	49402.1	36456.5
77.5°	1557.6	1566.1	1728.5	2232.7	3089.5	2907.9	5976.0	26188.1	33963.1	36131.8	25824.9
80°	1269.1	1279.8	1356.7	1566.1	2337.4	2151.5	2837.4	15058.6	19015.6	19039.1	12281.1
82.5°	1010.6	1012.7	1098.2	1145.2	1679.4	1538.3	1625.9	7070.0	8309.2	7993.0	4414.2
85°	711.5	696.5	1072.6	940.1	1098.2	987.1	897.4	2798.9	3435.6	3286.1	1382.4
87.5°	237.2	245.7	476.5	608.9	641.0	559.8	399.5	1072.6	1296.9	1286.2	438.0
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°	7634.0	7634.0	7634.0	7634.0	7634.0	7634.0	7634.0	7634.0	7634.0	7634.0	7634.0
2.5°	7672.5	7604.1	7503.7	7392.6	7305.0	7215.2	7149.0	7114.8	7076.4	7044.3	7082.8
5°	7753.7	7625.5	7411.8	7202.4	7048.6	6911.8	6813.6	6762.3	6715.3	6683.2	6687.5
7.5°	7886.1	7678.9	7319.9	7014.4	6800.7	6653.3	6552.9	6518.7	6488.8	6480.3	6490.9
10°	8027.1	7721.6	7198.2	6792.2	6548.6	6426.8	6382.0	6405.5	6426.8	6446.1	6467.4
12.5°	8187.4	7760.1	7020.8	6531.5	6324.3	6277.3	6322.2	6424.7	6499.5	6544.4	6572.1
15°	8396.8	7794.3	6815.7	6270.9	6132.0	6185.4	6337.1	6514.4	6644.8	6728.1	6740.9
17.5°	8589.1	7792.1	6552.9	6008.1	5976.0	6132.0	6360.6	6610.6	6785.8	6903.3	6926.8
20°	8787.8	7734.4	6247.4	5751.7	5817.9	6074.3	6371.3	6672.6	6884.1	7020.8	7052.9
22.5°	8973.7	7634.0	5911.9	5518.8	5685.5	5997.4	6330.7	6636.2	6847.8	6958.9	6993.0
25°	9099.7	7458.8	5572.2	5322.2	5567.9	5903.4	6198.2	6443.9	6602.0	6657.6	6666.1
27.5°	9163.8	7230.2	5251.7	5151.3	5446.2	5749.5	5952.5	6074.3	6119.2	6114.9	6106.4
30°	9172.4	6928.9	4976.1	5012.4	5305.1	5523.1	5619.2	5595.7	5538.0	5439.7	5448.3
32.5°	9144.6	6589.2	4745.4	4880.0	5125.7	5247.5	5251.7	5138.5	4984.7	4828.7	4785.9
35°	9153.1	6255.9	4542.4	4730.4	4907.7	4961.1	4912.0	4745.4	4536.0	4335.1	4292.4
37.5°	9247.1	5965.3	4367.2	4557.3	4666.3	4679.1	4608.6	4433.4	4279.6	4083.0	4065.9
40°	9471.5	5758.1	4200.5	4362.9	4424.9	4431.3	4330.9	4206.9	4219.8	4115.1	4112.9
42.5°	9875.3	5668.4	4053.1	4159.9	4198.4	4211.2	4134.3	4055.2	4166.3	4098.0	4074.5
45°	10396.6	5689.7	3929.2	3961.2	4031.7	4091.6	4044.6	3948.4	3991.1	3694.2	3595.9
47.5°	10999.1	5826.5	3830.9	3790.3	3912.1	4025.3	3952.7	3807.4	3655.7	3360.8	3305.3
50°	11704.2	6038.0	3741.2	3621.5	3781.8	3935.6	3862.9	3655.7	3427.1	3283.9	3264.7
52.5°	12439.2	6296.5	3651.4	3435.6	3617.2	3867.2	3830.9	3621.5	3339.5	3198.5	3172.8
55°	13272.5	6557.2	3538.2	3219.8	3439.9	3835.2	3815.9	3497.6	3273.2	3194.2	3175.0
57.5°	14308.7	6854.2	3388.6	2995.5	3273.2	3719.8	3660.0	3422.8	3204.9	3145.1	3138.6
60°	15659.0	7292.2	3172.8	2756.2	3070.3	3542.5	3529.6	3313.8	3095.9	3053.2	3044.6
62.5°	17684.5	8016.5	2875.8	2516.9	2843.8	3241.2	3358.7	3166.4	2980.5	2978.4	2982.7
65°	20825.3	9106.1	2553.2	2307.5	2615.2	2986.9	3160.0	3014.7	2863.0	2905.8	2912.2
67.5°	24466.0	10009.9	2237.0	2102.4	2382.3	2745.5	2980.5	2863.0	2707.1	2818.2	2820.3
70°	25677.5	9202.3	1959.2	1899.4	2140.9	2512.6	2786.1	2696.4	2538.3	2649.4	2638.7
72°	23895.6	7428.9	1779.8	1745.6	1959.2	2320.3	2613.0	2540.4	2384.4	2459.2	2431.4
72.5°	23333.6	7082.8	1734.9	1707.1	1910.1	2271.2	2568.2	2501.9	2346.0	2410.1	2384.4
75°	20814.6	6151.2	1491.3	1497.7	1666.5	2031.9	2316.1	2294.7	2134.4	2140.9	2132.3
77.5°	15097.1	4510.3	1256.3	1299.0	1418.7	1786.2	2061.8	2049.0	1873.8	1841.7	1835.3
80°	7005.9	2301.1	1023.4	1042.7	1166.6	1493.5	1758.4	1741.3	1600.3	1559.7	1536.2
82.5°	2399.4	1093.9	769.2	782.0	903.8	1202.9	1525.5	1514.8	1397.3	1318.3	1269.1
85°	856.8	544.8	538.4	525.6	645.2	946.5	1329.0	1271.3	1098.2	935.8	931.6
87.5°	277.8	232.9	277.8	275.6	376.0	641.0	965.7	822.6	796.9	662.3	649.5
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)