

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: P317814

Luminaire Tested: **GAN-SA0C-750-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317814  
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-SA0C-750-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 5000K, 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: 71579 lumens  
Efficiency: N/A  
Efficacy: 128.3 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5

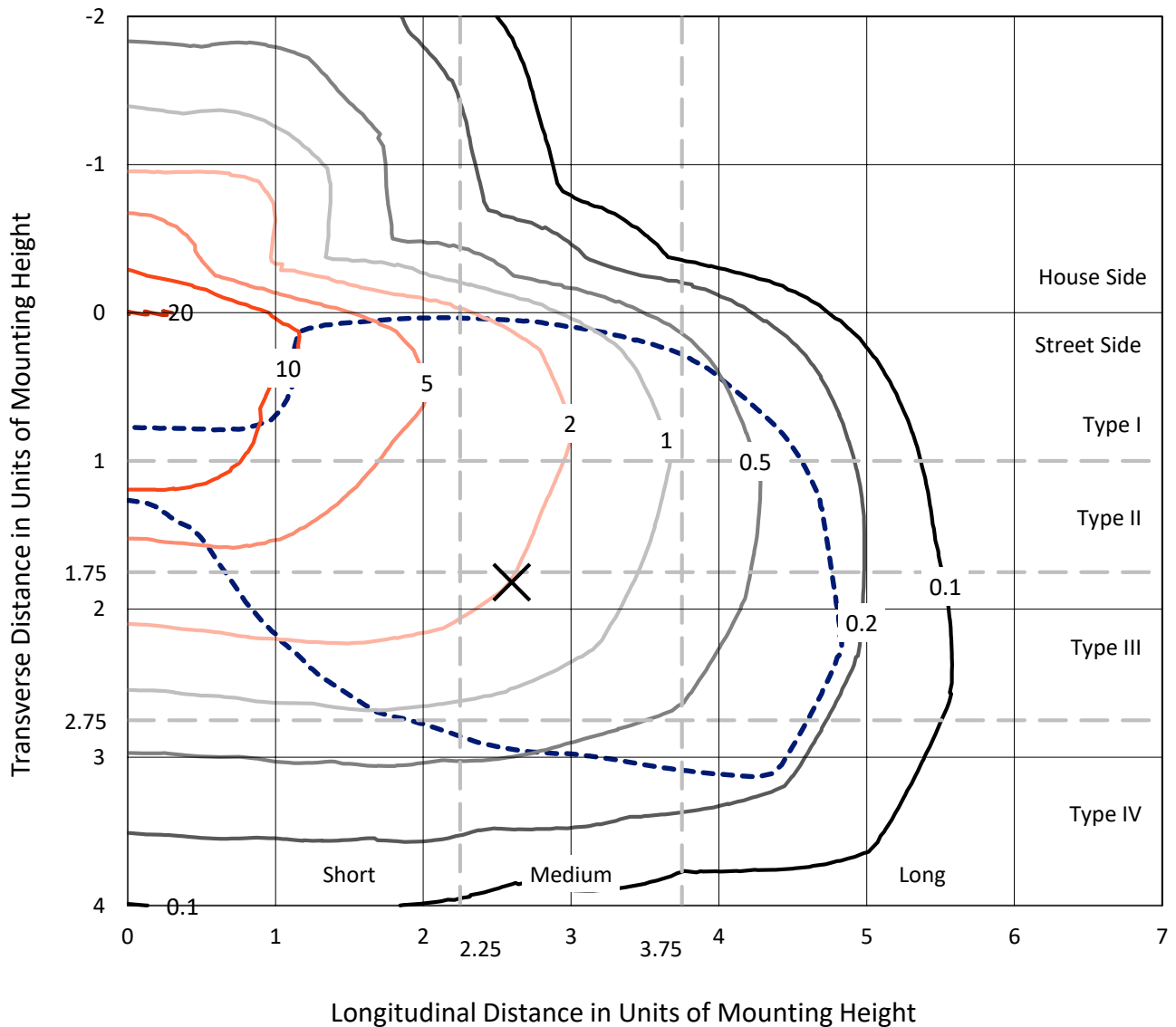
Input Watts (W): 558  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

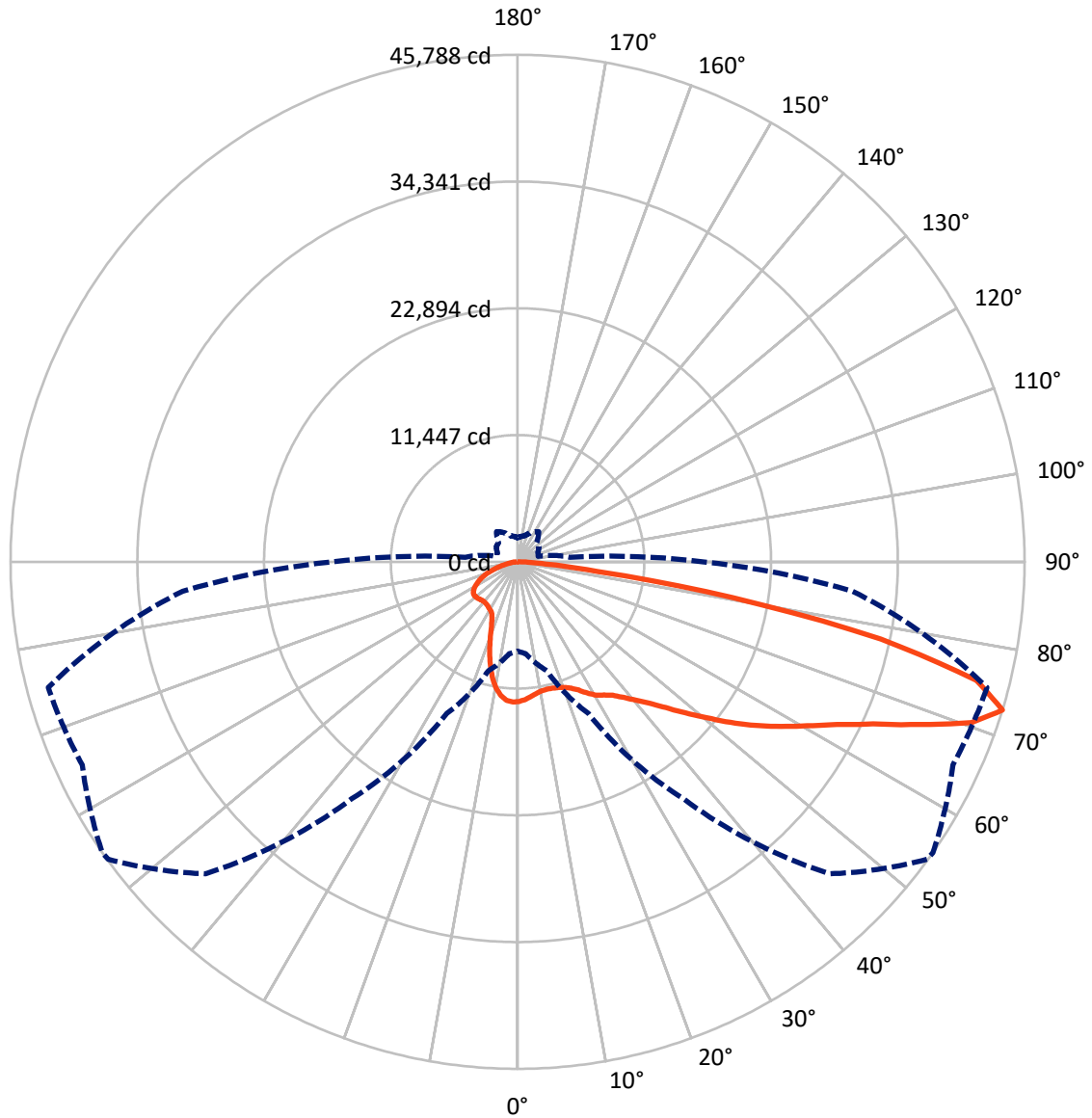
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 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	13304.2	0.0	13304.2
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	58274.8	0.0	58274.8
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	71579.0	0.0	71579.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1142.4	1.6
10°-20°	3041.5	4.2
20°-30°	5014.7	7.0
30°-40°	7418.0	10.4
40°-50°	10354.0	14.5
50°-60°	13481.2	18.8
60°-70°	16568.0	23.1
70°-80°	12987.4	18.1
80°-90°	1571.7	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°	71579.0	100.0
0°-180°	71579.0	100.0

**Coefficient of Utilization**

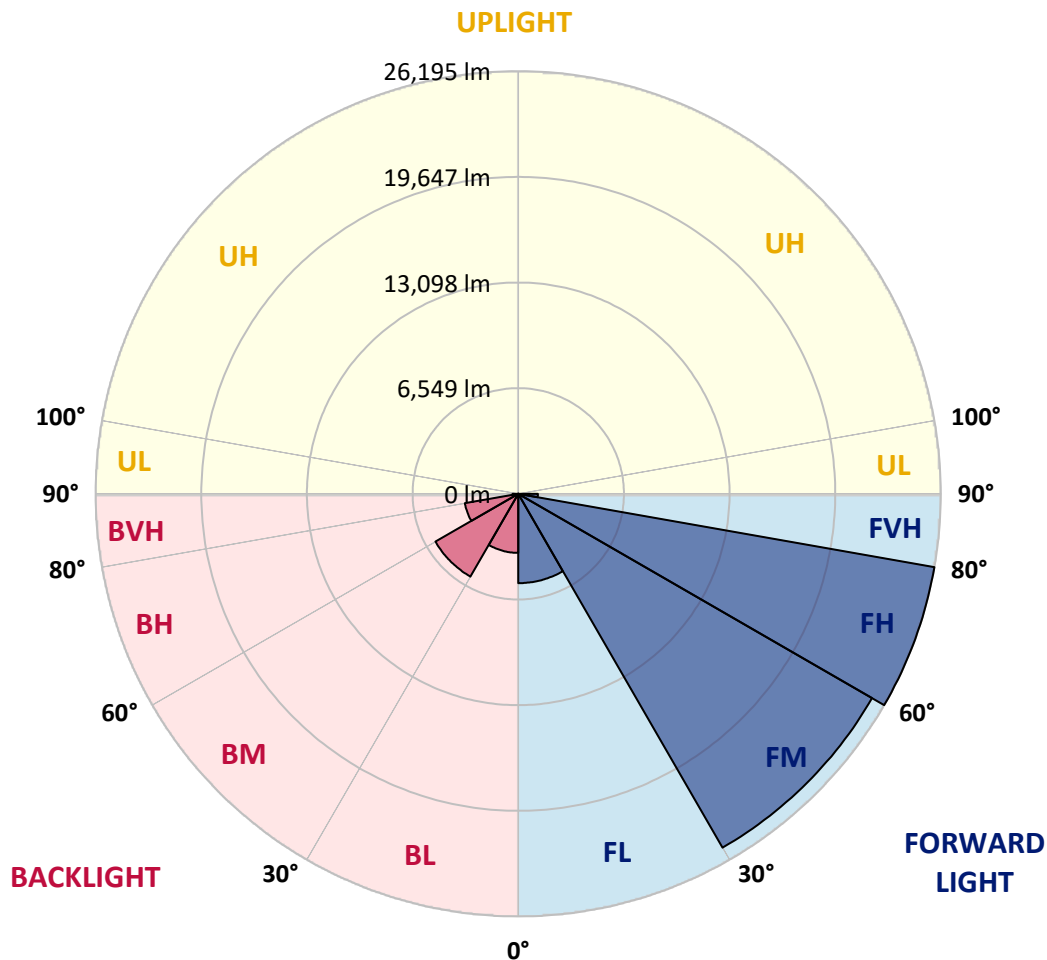


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5538.1	7.7			
FM (30°-60°)	25326.1	35.4			
FH (60°-80°)	26195.5	36.6			G5
FVH (80°-90°)	1215.1	1.7			G5
BL (0°-30°)	3660.5	5.1	B4/5000		
BM (30°-60°)	5927.2	8.3	B4/8500		
BH (60°-80°)	3359.9	4.7	B4/5000		G4/5000
BVH (80°-90°)	356.5	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°	12625.0	12625.0	12625.0	12625.0	12625.0	12625.0	12625.0	12625.0	12625.0	12625.0	12625.0
2.5°	12214.0	12185.0	12221.2	12272.0	12327.6	12402.6	12446.1	12465.4	12540.4	12569.4	12632.2
5°	11648.3	11633.8	11694.2	11781.2	11904.5	12078.6	12218.8	12245.4	12443.7	12583.9	12712.0
7.5°	11237.3	11237.3	11307.4	11411.3	11549.1	11783.7	11981.9	12018.2	12354.2	12656.4	12893.4
10°	10910.9	10923.0	11005.2	11128.5	11290.4	11539.5	11803.0	11844.1	12330.0	12825.7	13202.8
12.5°	10693.3	10722.3	10797.2	10908.5	11109.1	11411.3	11745.0	11800.6	12380.8	13067.4	13575.1
15°	10831.1	10879.4	10886.7	10932.6	11043.8	11372.7	11778.8	11836.8	12489.6	13314.0	13998.2
17.5°	11435.5	11452.4	11377.5	11280.8	11227.6	11437.9	11880.4	11940.8	12620.2	13558.2	14404.4
20°	12354.2	12344.5	12182.6	11921.5	11650.7	11684.5	12047.2	12110.0	12796.6	13773.4	14810.6
22.5°	13514.7	13480.8	13231.8	12750.7	12288.9	12095.5	12339.7	12392.9	13062.6	14080.4	15245.7
25°	14921.8	14846.8	14518.0	13872.5	13193.1	12695.1	12779.7	12830.5	13449.4	14423.7	15644.6
27.5°	16406.2	16331.3	15913.0	15132.1	14227.9	13451.8	13386.6	13430.1	13889.4	14677.6	15939.6
30°	17958.3	17878.6	17496.6	16621.4	15325.5	14235.2	13952.3	13969.2	14198.9	14815.4	16181.4
32.5°	19517.7	19442.8	19014.9	17999.4	16517.4	15076.5	14360.9	14339.1	14385.0	14958.0	16454.6
35°	21098.9	21127.9	20627.4	19503.2	17837.5	16012.1	14844.4	14798.5	14696.9	15250.6	16841.4
37.5°	22791.2	22771.9	22124.0	20949.0	19217.9	17027.5	15538.3	15531.0	15180.5	15804.2	17448.2
40°	23922.7	23934.8	23540.7	22428.6	20612.9	18151.8	16428.0	16411.0	15951.7	16633.5	18243.6
42.5°	24365.1	24444.9	24546.5	23840.5	22073.2	19454.9	17489.3	17465.1	17027.5	17823.0	19179.3
45°	24396.6	24556.1	25184.7	25095.3	23552.8	20946.6	18845.6	18777.9	18463.6	19404.1	20296.2
47.5°	24125.8	24290.2	25334.6	25842.3	24875.3	22520.5	20431.6	20378.4	20107.6	21381.7	21505.0
50°	23533.5	23690.6	25025.1	26207.4	25963.2	24033.9	22259.4	22119.1	21974.1	23666.4	22887.9
52.5°	22423.8	22726.0	24611.7	26294.4	26613.5	25378.1	24181.4	24089.5	24169.3	26076.8	24273.3
55°	19795.8	20134.2	23545.5	26221.9	27094.7	26507.2	26103.4	26098.6	26512.0	28605.7	25760.1
57.5°	18323.4	18562.8	21374.5	26098.6	27665.2	27629.0	28006.1	28052.1	28857.1	31359.4	27317.1
60°	17491.7	17743.2	20274.5	25641.7	28550.1	29079.6	29947.5	30039.4	31240.9	34408.1	29190.8
62.5°	16735.0	17010.6	19592.7	24710.9	29592.1	31153.9	32273.3	32355.5	33765.0	37541.4	31001.6
65°	15441.6	15753.4	18594.2	24099.2	30539.8	33859.3	35230.1	35285.7	36663.7	40824.5	32386.9
67.5°	13613.8	13899.1	16710.8	22747.7	31240.9	37144.9	39161.2	39192.6	39538.3	43143.1	33095.3
70°	11479.0	11587.8	14027.2	19957.7	30411.7	40217.7	43469.4	43476.7	42159.1	44627.5	32979.2
72.5°	8065.3	8321.6	10183.2	15107.9	26134.9	39843.0	45705.8	45788.0	43377.6	43878.0	30344.0
75°	4946.5	5217.3	6387.4	9155.7	16580.3	31335.2	42229.2	42799.8	41092.9	39122.5	24788.2
77.5°	3307.4	3408.9	4168.0	5338.2	7511.7	18028.5	32466.7	33540.1	34137.3	28530.7	15852.6
80°	1844.7	2038.1	2763.4	3317.0	3341.2	7163.5	19467.0	19718.4	18993.1	11360.6	4890.9
82.5°	976.7	1083.1	1844.7	1948.6	1822.9	2398.3	7255.4	7262.6	6068.3	3046.2	1453.0
85°	756.7	846.2	1264.4	1189.5	930.8	1063.8	2393.5	2524.0	2064.7	1247.5	473.9
87.5°	377.2	469.0	858.3	754.3	365.1	304.6	855.8	913.9	814.7	488.4	171.7
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°	12625.0	12625.0	12625.0	12625.0	12625.0	12625.0	12625.0	12625.0	12625.0	12625.0	12625.0
2.5°	12656.4	12678.2	12704.8	12675.8	12666.1	12627.4	12562.1	12547.6	12513.8	12516.2	12535.5
5°	12767.6	12803.9	12789.4	12678.2	12545.2	12359.1	12165.6	12001.2	11892.4	11885.2	11877.9
7.5°	12980.4	13004.6	12890.9	12574.2	12201.9	11771.6	11365.4	11010.0	10794.8	10741.6	10729.6
10°	13314.0	13309.2	12997.3	12359.1	11616.8	10848.0	10195.3	9702.1	9414.3	9329.7	9308.0
12.5°	13686.3	13630.7	13033.6	11967.4	10790.0	9723.8	8897.0	8348.2	8048.4	7951.7	7927.5
15°	14070.8	13932.9	12944.1	11382.3	9774.6	8512.6	7644.6	7136.9	6974.9	6921.7	6912.1
17.5°	14428.6	14162.6	12687.9	10589.3	8616.5	7306.2	6629.2	6426.1	6464.8	6534.9	6537.3
20°	14779.1	14317.4	12276.9	9588.4	7395.6	6312.5	6082.8	6232.7	6416.5	6559.1	6578.4
22.5°	15124.9	14426.1	11747.4	8432.8	6302.8	5754.0	5916.0	6189.2	6399.5	6554.3	6580.9
25°	15415.0	14452.7	11017.3	7199.8	5543.7	5543.7	5836.2	6094.9	6302.8	6455.1	6481.7
27.5°	15521.3	14273.8	9987.3	6058.6	5161.7	5447.0	5725.0	5940.2	6116.7	6278.7	6307.7
30°	15562.4	13942.6	8797.8	5142.4	5004.5	5343.0	5575.1	5758.9	5925.7	6078.0	6104.6
32.5°	15569.7	13543.7	7535.8	4622.6	4895.8	5234.2	5389.0	5550.9	5729.8	5790.3	5800.0
35°	15615.6	13072.3	6206.1	4356.6	4794.2	5132.7	5256.0	5372.0	5081.9	5103.7	5123.0
37.5°	15748.6	12605.7	5094.0	4206.7	4728.9	5079.5	5227.0	4806.3	4579.0	4525.9	4518.6
40°	15997.6	12107.6	4269.6	4085.8	4704.8	5106.1	5040.8	4487.2	4095.5	3803.0	3759.5
42.5°	16343.3	11570.9	3742.5	4006.1	4721.7	5234.2	4782.1	4180.1	3529.8	3341.2	3317.0
45°	16732.6	11007.6	3457.2	3950.4	4779.7	5333.3	4728.9	3771.5	3266.3	3123.6	3111.5
47.5°	17109.7	10318.6	3309.8	3926.3	4859.5	5253.6	4504.1	3645.8	3140.5	3065.6	3072.8
50°	17542.5	9697.2	3220.3	3899.7	4929.6	5202.8	4250.2	3580.5	3092.2	3184.1	3280.8
52.5°	17907.6	9054.1	3140.5	3846.5	4956.2	5113.3	4185.0	3592.6	3092.2	3268.7	3360.5
55°	18340.3	8568.2	3048.7	3735.3	4905.4	4859.5	4139.0	3665.2	3128.4	3017.2	3026.9
57.5°	18898.8	8408.6	2947.1	3561.2	4736.2	4489.6	4117.3	3735.3	3106.7	3036.6	3060.8
60°	19672.5	8577.8	2906.0	3333.9	4472.7	4199.5	4119.7	3699.0	2954.4	2833.5	2835.9
62.5°	20409.8	8766.4	2903.6	3191.3	4148.7	3940.8	4064.1	3580.5	2877.0	2806.9	2833.5
65°	20651.6	8575.4	2787.6	3031.7	3783.6	3631.3	3962.5	3454.8	2819.0	2712.6	2707.8
67.5°	20327.6	7983.1	2553.0	2773.1	3365.4	3271.1	3829.6	3304.9	2727.1	2640.1	2625.6
70°	19365.4	6660.6	2262.9	2432.2	2889.1	2864.9	3619.2	3130.9	2603.8	2528.9	2466.0
72.5°	16776.1	4745.9	1907.5	2023.6	2352.4	2429.7	3329.1	2903.6	2429.7	2267.8	2171.1
75°	13778.2	3512.9	1566.6	1590.8	1786.6	1997.0	2930.2	2637.7	2224.2	1948.6	1873.7
77.5°	8437.6	2149.3	1247.5	1257.2	1281.4	1593.2	2412.8	2340.3	1963.1	1624.7	1571.5
80°	2732.0	1172.6	901.8	947.7	875.2	1167.7	1866.4	1992.1	1685.1	1358.7	1300.7
82.5°	1039.6	684.2	609.2	640.7	606.8	783.3	1361.1	1595.7	1380.5	1117.0	909.0
85°	502.9	386.8	360.2	403.7	374.7	401.3	870.4	1175.0	1046.8	727.7	676.9
87.5°	178.9	171.7	137.8	186.2	159.6	142.6	265.9	592.3	691.4	500.5	447.3
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)