

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: P317491

Luminaire Tested: **GAN-SA7C-750-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317491  
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-SA7C-750-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 52120 lumens  
Efficiency: N/A  
Efficacy: 133.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G5

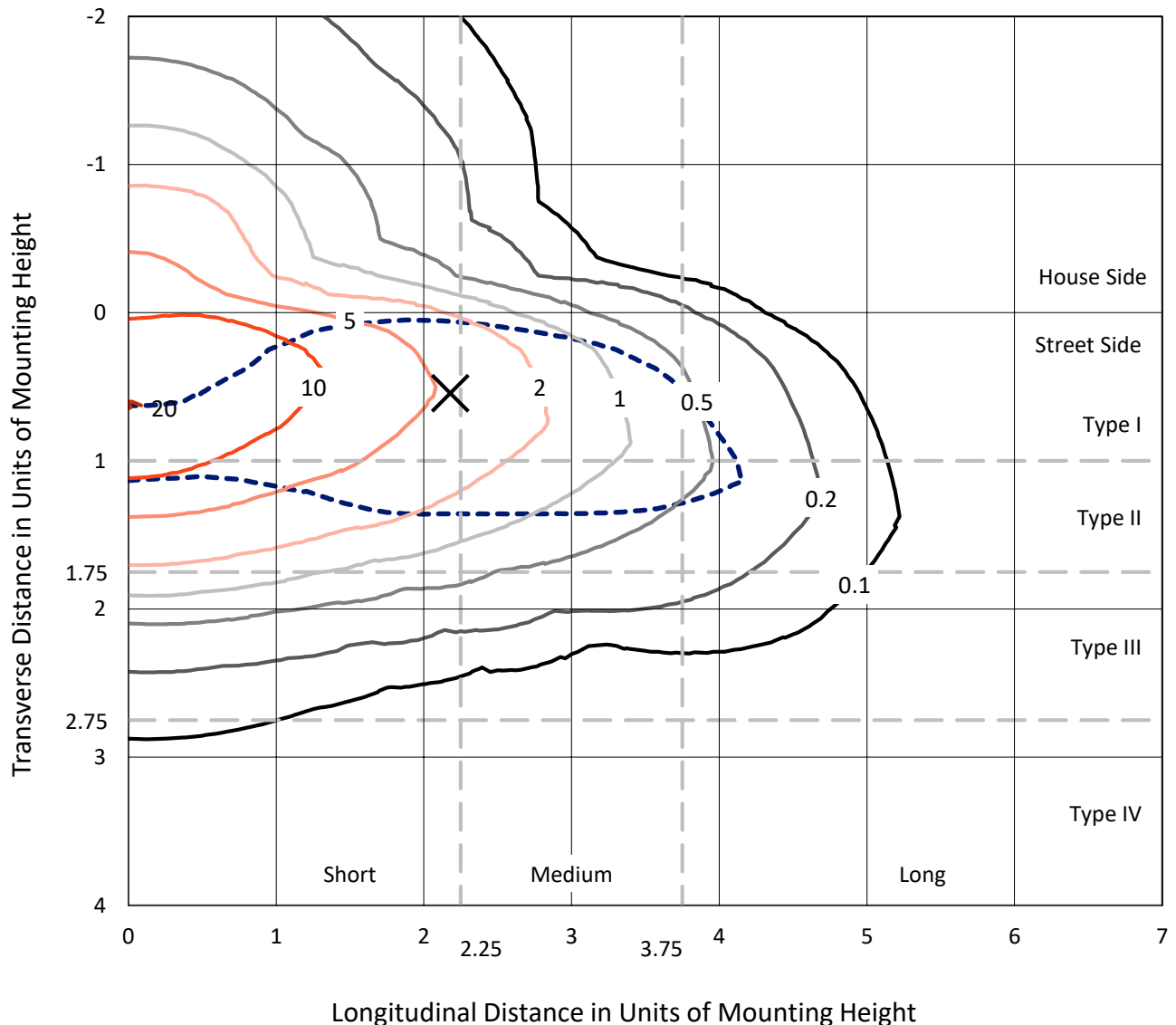
Input Watts (W): 391  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

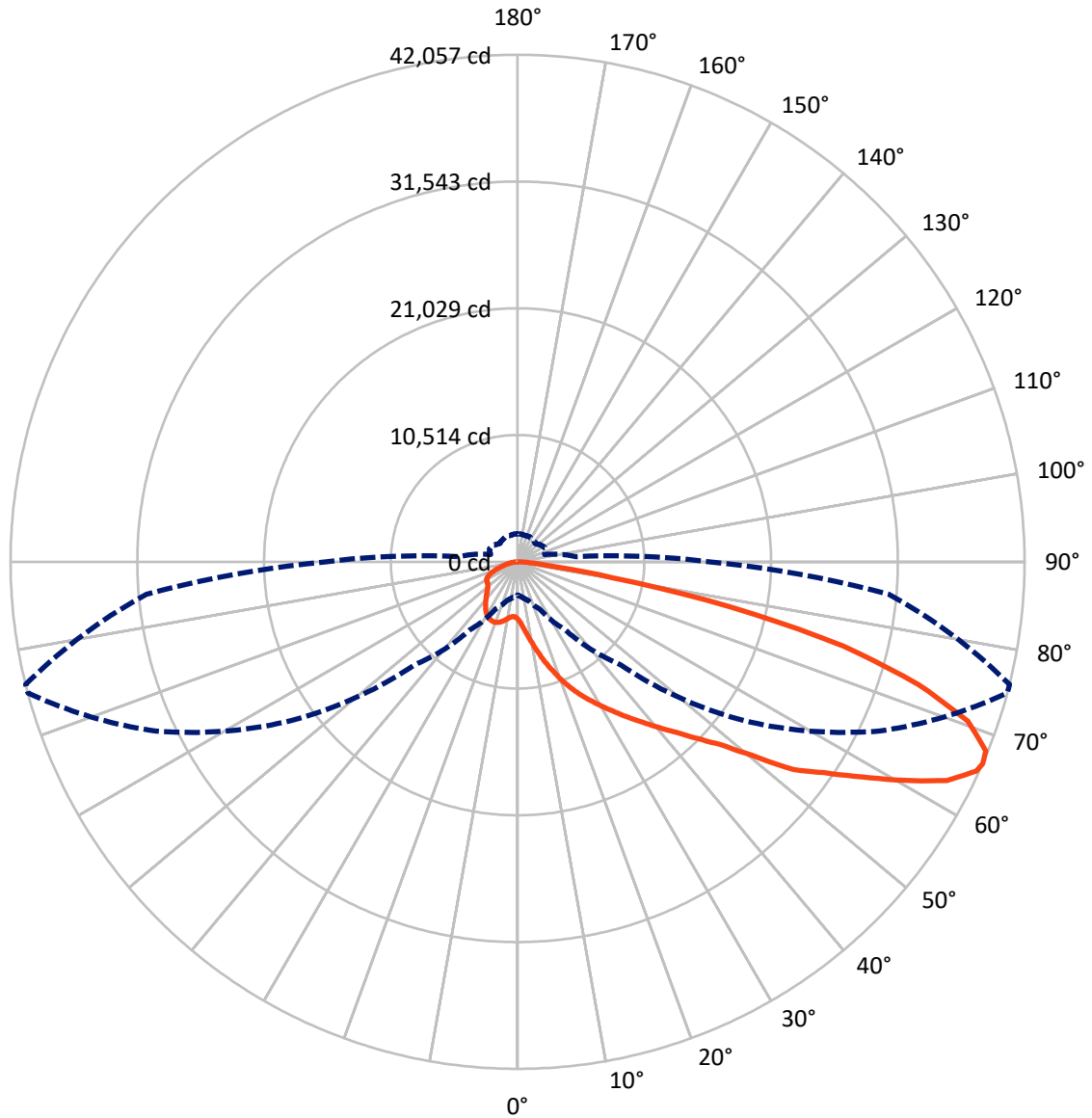
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.2 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
<b>House Side</b>	Lumens	8770.0	0.0	8770.0
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	43350.0	0.0	43350.0
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	52120.0	0.0	52120.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	575.6	1.1
10°-20°	2272.9	4.4
20°-30°	4416.9	8.5
30°-40°	7209.3	13.8
40°-50°	9849.6	18.9
50°-60°	11472.8	22.0
60°-70°	10285.6	19.7
70°-80°	5197.9	10.0
80°-90°	839.4	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°	52120.0	100.0
0°-180°	52120.0	100.0

**Coefficient of Utilization**



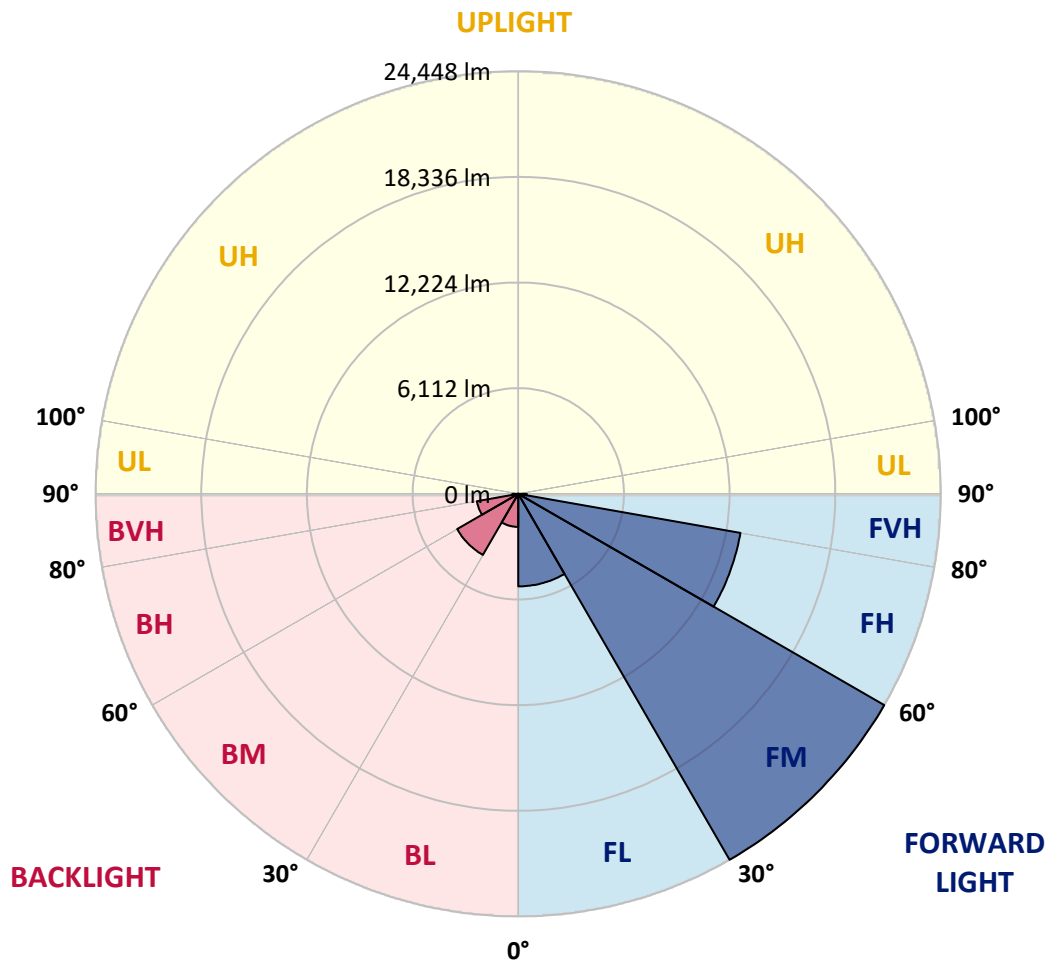
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5352.6	10.3			
FM (30°-60°)	24447.9	46.9			
FH (60°-80°)	13053.8	25.0			G5
FVH (80°-90°)	495.7	1.0			G3/500
BL (0°-30°)	1912.8	3.7	B3/2500		
BM (30°-60°)	4083.8	7.8	B3/5000		
BH (60°-80°)	2429.7	4.7	B3/2500		G3/2500
BVH (80°-90°)	343.7	0.7			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4759.7	4759.7	4759.7	4759.7	4759.7	4759.7	4759.7	4759.7	4759.7	4759.7	4759.7
2.5°	6318.6	6223.0	6214.2	6074.4	6042.6	5775.4	5579.0	5373.7	5140.2	5094.2	4910.1
5°	8116.3	8107.5	7985.4	7757.1	7578.4	7121.9	6670.7	6193.0	5669.2	5584.3	5170.2
7.5°	9733.6	9719.4	9625.6	9379.7	9121.3	8560.4	7916.4	7183.8	6334.5	6208.9	5522.4
10°	10961.5	10956.2	10924.4	10743.9	10524.5	9986.6	9275.3	8275.6	7107.7	6936.1	5962.9
12.5°	11909.9	11920.6	11941.8	11878.1	11773.7	11315.4	10586.4	9432.8	7932.3	7762.4	6453.1
15°	12552.2	12584.1	12693.8	12784.0	12838.9	12557.6	11851.6	10616.5	8855.9	8652.4	6996.3
17.5°	12876.0	12911.4	13100.8	13373.3	13624.5	13596.2	13035.3	11745.4	9742.4	9546.0	7580.2
20°	13155.6	13182.2	13394.5	13721.8	14166.0	14362.4	14047.4	12831.8	10713.8	10480.3	8199.5
22.5°	13966.0	13999.6	14063.3	14249.1	14641.9	15002.9	14850.7	13859.8	11603.8	11386.2	8786.9
25°	15530.2	15570.9	15432.9	15275.4	15349.7	15600.9	15629.3	14797.6	12506.2	12260.3	9418.6
27.5°	17414.6	17473.0	17237.7	16832.5	16478.6	16381.3	16347.6	15565.6	13367.9	13083.1	10043.2
30°	19260.1	19361.0	19054.9	18529.3	17880.0	17423.4	17085.5	16317.6	14217.3	13944.8	10632.4
32.5°	21063.1	21022.4	20578.3	20065.2	19304.3	18732.8	17915.3	17124.4	15172.8	14859.6	11218.1
35°	22298.2	22312.3	21900.1	21291.4	20565.9	20127.1	19026.5	17995.0	16147.7	15859.3	11883.4
37.5°	23349.2	23283.8	22816.6	22248.6	21624.0	21436.5	20327.1	18954.0	17204.0	16889.1	12591.2
40°	23699.6	23623.5	23317.4	22908.6	22407.9	22392.0	21762.1	20040.4	18398.4	18087.0	13389.2
42.5°	23487.2	23389.9	23264.3	23152.8	22998.9	23069.7	23110.4	21314.4	19711.3	19362.7	14312.8
45°	22703.4	22556.5	22645.0	22887.4	23221.8	23621.7	24327.7	22724.6	21181.7	20889.7	15397.5
47.5°	21498.4	21365.7	21641.7	22160.2	23069.7	24081.8	25479.6	24281.7	22937.0	22646.8	16942.2
50°	19803.3	19842.2	20236.8	21179.9	22554.8	24294.1	26898.7	26343.1	25488.5	25217.7	19049.5
52.5°	17021.8	17028.9	18140.1	19688.3	21641.7	24184.4	27686.1	28977.7	28972.4	28645.1	21056.1
55°	14438.4	14595.9	15475.3	17533.2	20162.5	23745.6	28236.4	30258.8	31260.3	30876.3	22926.3
57.5°	11915.3	12007.3	12840.7	14907.3	18051.6	22576.0	28800.8	31796.4	33896.7	33654.3	25251.3
60°	9045.3	9186.8	10048.5	11957.7	15351.5	20500.5	28853.9	33401.3	37048.1	36803.9	27847.1
62.5°	5870.9	6115.1	6922.0	8710.8	12085.1	17515.5	27622.4	34450.5	40034.8	39948.1	30150.9
65°	3374.3	3558.3	4119.2	5499.3	8337.5	13767.8	24694.0	34047.1	41873.3	41823.7	31012.6
66°	2756.8	2871.8	3301.7	4297.9	6879.5	12090.4	22991.8	33196.0	42055.5	42057.3	30913.5
67.5°	2204.7	2256.0	2448.9	3077.0	5076.5	9583.2	19950.2	31318.7	41829.0	41890.9	30274.7
70°	1824.3	1850.8	1911.0	2063.1	2770.9	5778.9	14160.6	26440.4	39555.3	39603.1	27781.6
72.5°	1636.7	1652.6	1675.6	1696.9	1955.2	3229.2	8648.9	21151.6	34680.6	34742.5	23982.7
75°	1482.8	1491.6	1488.1	1489.8	1640.2	2057.8	4469.5	15792.0	28041.7	27917.9	18371.9
77.5°	1302.3	1311.1	1293.4	1297.0	1450.9	1581.9	2224.2	11055.3	18923.9	18049.8	10351.1
80°	1100.6	1107.7	1100.6	1113.0	1263.4	1194.4	1293.4	6219.5	8367.6	7914.6	3680.4
82.5°	831.6	861.7	882.9	932.5	1040.4	849.3	865.2	2422.3	2548.0	2425.9	1128.9
85°	364.5	444.1	665.3	713.1	782.1	509.6	568.0	987.3	1036.9	1005.0	410.5
87.5°	95.5	104.4	329.1	414.0	433.5	230.0	295.5	449.4	474.2	449.4	136.2
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°	4759.7	4759.7	4759.7	4759.7	4759.7	4759.7	4759.7	4759.7	4759.7	4759.7	4759.7
2.5°	4812.8	4726.1	4570.4	4432.4	4328.0	4257.2	4186.4	4151.1	4129.8	4108.6	4112.1
5°	4966.8	4791.6	4524.4	4335.1	4228.9	4161.7	4126.3	4112.1	4103.3	4082.0	4082.0
7.5°	5198.5	4950.8	4582.8	4388.2	4305.0	4253.7	4232.4	4225.4	4214.8	4190.0	4193.5
10°	5490.5	5143.7	4704.9	4515.6	4439.5	4382.8	4352.8	4342.1	4322.7	4294.4	4297.9
12.5°	5833.8	5382.6	4865.9	4667.7	4575.7	4499.6	4450.1	4420.0	4386.4	4349.2	4351.0
15°	6208.9	5642.7	5039.3	4804.0	4678.3	4572.2	4492.5	4441.2	4388.2	4342.1	4340.4
17.5°	6589.3	5893.9	5172.0	4878.3	4708.4	4568.6	4460.7	4381.1	4315.6	4259.0	4253.7
20°	6999.8	6120.4	5246.3	4871.2	4651.8	4485.5	4342.1	4243.1	4170.5	4113.9	4105.0
22.5°	7417.4	6332.7	5258.7	4798.7	4526.2	4322.7	4172.3	4062.6	3988.3	3929.9	3908.6
25°	7799.6	6497.3	5207.4	4658.9	4351.0	4131.6	3984.7	3873.3	3813.1	3744.1	3722.9
27.5°	8148.2	6612.3	5104.8	4480.2	4154.6	3938.7	3800.7	3705.2	3639.7	3586.6	3568.9
30°	8461.4	6674.2	4936.7	4267.8	3952.9	3756.5	3639.7	3574.2	3517.6	3450.4	3438.0
32.5°	8758.6	6674.2	4720.8	4036.0	3752.9	3595.5	3526.4	3485.8	3422.1	3356.6	3338.9
35°	9055.9	6633.5	4466.0	3793.6	3568.9	3480.4	3476.9	3429.1	3331.8	3243.3	3220.3
37.5°	9369.1	6550.4	4179.4	3567.1	3418.5	3429.1	3459.2	3353.0	3215.0	3089.4	3055.8
40°	9722.9	6435.4	3882.1	3370.7	3292.9	3406.1	3411.4	3243.3	2974.4	2859.4	2829.3
42.5°	10138.8	6320.4	3606.1	3197.3	3193.8	3337.1	3321.2	3006.2	2845.2	2786.8	2770.9
45°	10685.5	6254.9	3344.2	3032.8	3115.9	3225.6	3167.3	2875.3	2808.1	2774.4	2760.3
47.5°	11547.2	6288.5	3103.6	2901.8	3038.1	3114.2	2880.6	2822.2	2774.4	2733.7	2719.6
50°	12626.6	6269.0	2908.9	2811.6	2949.6	2997.4	2751.4	2753.2	2728.4	2682.4	2661.2
52.5°	13438.7	6116.9	2783.3	2760.3	2871.8	2790.4	2670.1	2686.0	2673.6	2606.4	2583.3
55°	14222.6	5985.9	2719.6	2740.8	2815.1	2532.0	2574.5	2613.4	2601.0	2535.6	2525.0
57.5°	15197.5	5961.2	2680.7	2746.1	2767.4	2402.9	2482.5	2533.8	2525.0	2496.6	2491.3
60°	16391.9	5968.2	2645.3	2755.0	2714.3	2307.3	2395.8	2461.3	2466.6	2461.3	2457.7
62.5°	17048.3	5775.4	2556.8	2730.2	2620.5	2224.2	2305.6	2401.1	2402.9	2413.5	2411.7
65°	16491.0	5198.5	2392.3	2643.5	2463.0	2155.1	2227.7	2332.1	2305.6	2353.3	2353.3
66°	15949.5	4865.9	2310.9	2586.9	2395.8	2128.6	2202.9	2296.7	2263.1	2328.6	2328.6
67.5°	14843.6	4305.0	2164.0	2466.6	2300.2	2091.5	2174.6	2238.3	2192.3	2289.6	2282.5
70°	12823.0	3330.0	1868.5	2194.1	2142.8	2036.6	2135.7	2121.5	2054.3	2202.9	2174.6
72.5°	10811.1	2530.3	1500.5	1836.7	1903.9	1967.6	2080.8	1972.9	1888.0	1992.4	1930.4
75°	8388.8	1902.1	1185.5	1427.9	1608.4	1859.7	2015.4	1801.3	1679.2	1668.6	1634.9
77.5°	4535.0	1305.8	939.6	1090.0	1277.5	1725.2	1971.1	1617.2	1433.2	1390.8	1364.2
80°	1796.0	849.3	683.0	826.3	893.6	1530.5	1865.0	1403.1	1182.0	1139.5	1098.8
82.5°	741.4	502.5	440.6	553.8	582.1	1309.4	1673.9	1150.1	913.0	1263.4	1341.2
85°	318.5	276.0	261.9	286.6	329.1	918.3	1332.4	877.6	985.6	879.4	698.9
87.5°	95.5	116.8	111.5	109.7	120.3	219.4	709.5	488.4	723.7	274.3	205.3
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)