

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: P456244

Luminaire Tested: **GLAN-SA7C-727-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456244  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7C-727-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40611 lumens  
Efficiency: N/A  
Efficacy: 107.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4

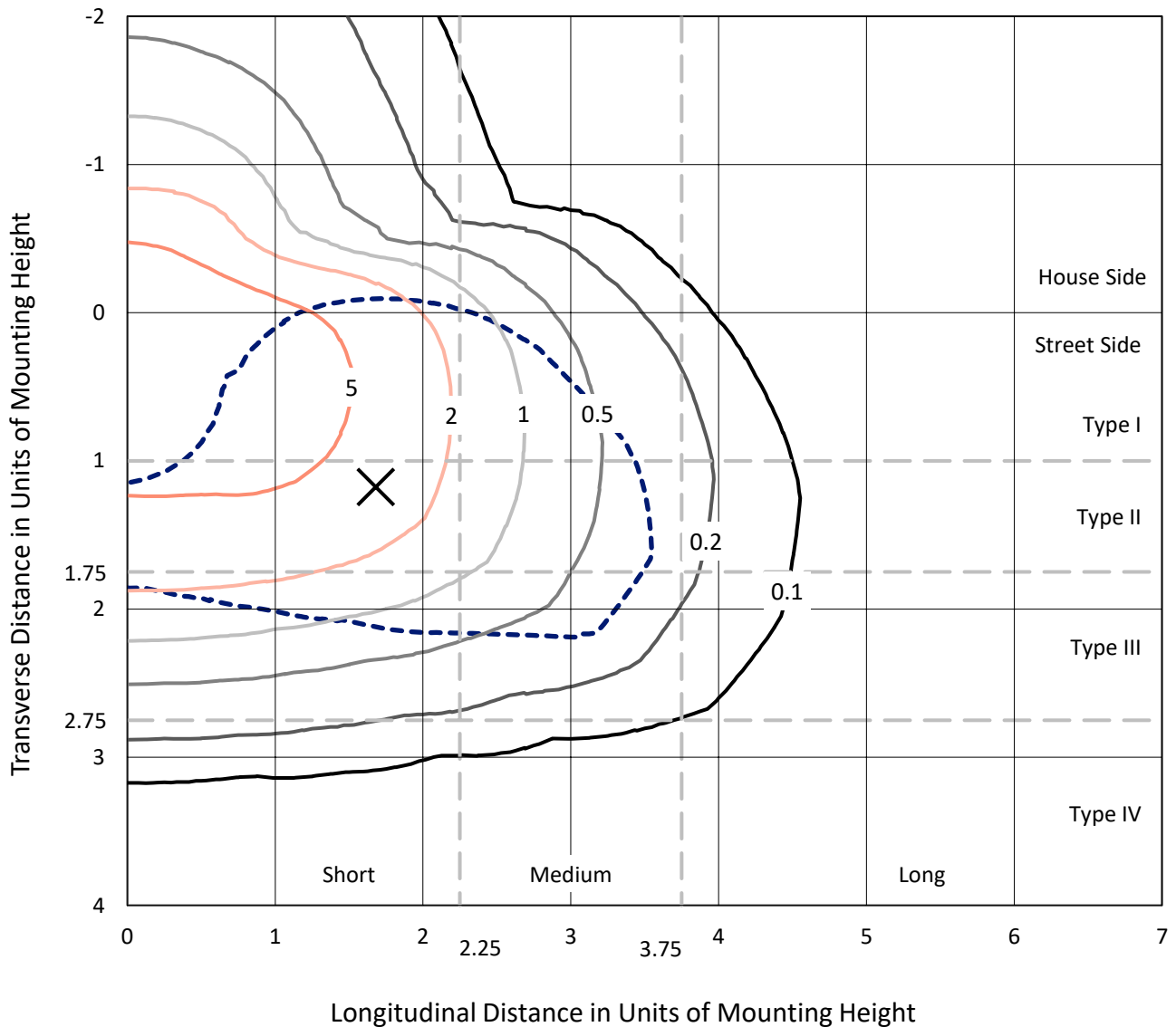
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

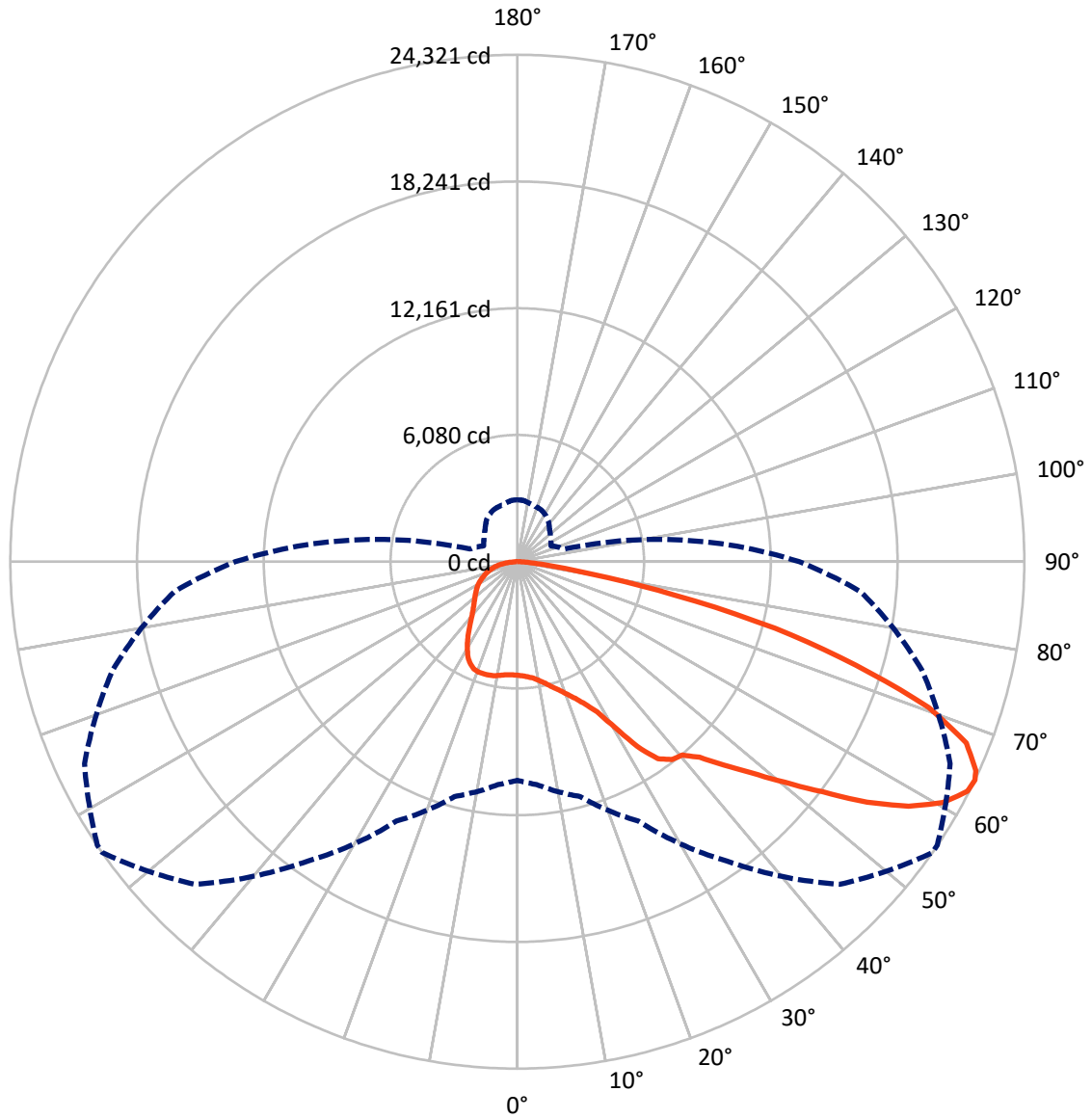
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9865.2	0.0	9865.2
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	30745.8	0.0	30745.8
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	40611.0	0.0	40611.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	530.0	1.3
10°-20°	1672.4	4.1
20°-30°	2977.3	7.3
30°-40°	4580.8	11.3
40°-50°	6493.7	16.0
50°-60°	9399.5	23.1
60°-70°	9727.5	24.0
70°-80°	4555.4	11.2
80°-90°	674.4	1.7
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°	40611.0	100.0
0°-180°	40611.0	100.0

**Coefficient of Utilization**



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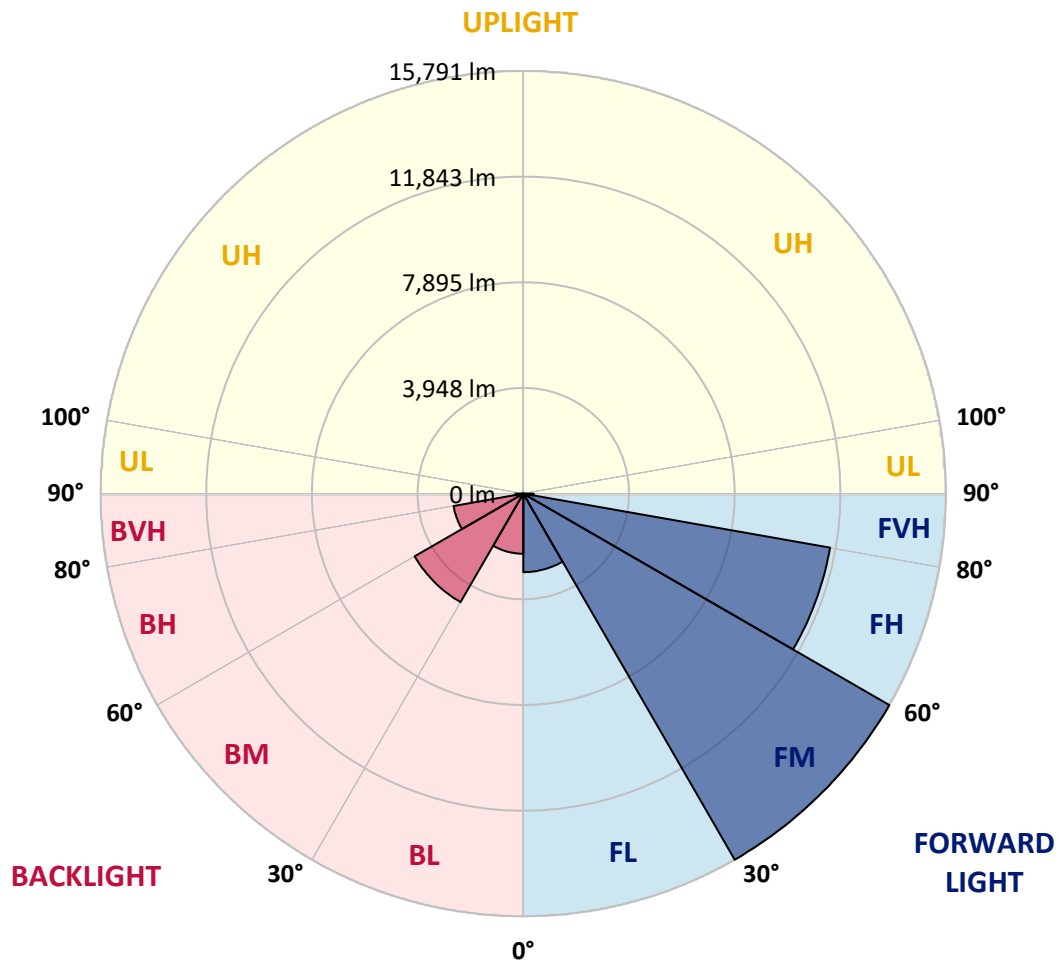
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2932.8	7.2			
FM	(30°-60°)	15790.7	38.9			
FH	(60°-80°)	11636.2	28.7			G4/12000
FVH	(80°-90°)	386.1	1.0			G3/500
BL	(0°-30°)	2246.9	5.5	B3/2500		
BM	(30°-60°)	4683.4	11.5	B3/5000		
BH	(60°-80°)	2646.6	6.5	B4/5000		G4/5000
BVH	(80°-90°)	288.2	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-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5448.8	5448.8	5448.8	5448.8	5448.8	5448.8	5448.8	5448.8	5448.8	5448.8	5448.8
2.5°	5509.9	5507.6	5514.4	5507.6	5512.2	5496.3	5489.5	5494.0	5487.3	5475.9	5455.6
5°	5577.8	5575.5	5577.8	5568.7	5573.3	5564.2	5548.4	5552.9	5541.6	5516.7	5487.3
7.5°	5693.3	5684.2	5684.2	5681.9	5672.9	5659.3	5648.0	5643.5	5632.1	5600.4	5555.2
10°	5842.7	5842.7	5844.9	5826.8	5838.1	5813.2	5801.9	5799.6	5761.2	5720.4	5657.0
12.5°	6039.6	6050.9	6044.1	6035.1	6030.5	6021.5	5983.0	5992.1	5949.1	5878.9	5801.9
15°	6284.1	6302.2	6290.9	6286.3	6275.0	6241.1	6225.2	6218.4	6161.8	6060.0	5958.1
17.5°	6607.8	6585.2	6576.1	6564.8	6517.2	6492.3	6465.2	6460.7	6410.9	6290.9	6132.4
20°	6890.8	6922.5	6904.3	6893.0	6845.5	6797.9	6777.6	6770.8	6727.8	6596.5	6342.9
22.5°	7228.1	7234.8	7241.6	7214.5	7191.8	7155.6	7119.4	7108.1	7092.2	6956.4	6646.3
25°	7588.0	7615.1	7592.5	7565.3	7538.2	7535.9	7569.9	7565.3	7558.6	7427.3	7049.2
27.5°	8174.3	8199.2	8206.0	8176.6	8072.4	8081.5	8158.4	8183.3	8287.5	8070.2	7567.6
30°	8504.8	8529.7	8586.3	8697.2	8862.5	9007.3	9193.0	9249.6	9349.2	8939.4	8183.3
32.5°	8708.5	8717.6	8819.4	9025.4	9521.2	10062.2	10567.0	10587.4	10650.8	10075.8	8747.0
35°	9030.0	9036.8	9118.3	9344.6	9926.4	10827.4	11608.3	11633.2	11581.2	10429.0	9009.6
37.5°	9426.1	9444.2	9496.3	9684.2	10379.1	11468.0	12040.7	12022.6	11560.8	10709.7	9473.7
40°	10003.4	10003.4	9942.3	10195.8	10856.8	11834.7	12192.4	12160.7	12038.5	11522.3	10179.9
42.5°	10512.7	10503.7	10648.5	10820.6	11454.4	12400.6	12828.5	12880.6	13082.0	12543.3	10983.6
45°	11176.0	11216.7	11298.2	11610.6	12470.8	13367.3	13919.6	13969.4	14254.6	13745.3	11923.0
47.5°	11846.0	11859.6	12115.4	12531.9	13729.5	14678.0	15130.7	15212.2	15472.5	15151.1	12934.9
50°	12321.4	12450.5	12860.2	13516.7	15026.6	16276.1	16629.3	16726.6	17186.2	16681.3	14114.3
52.5°	12824.0	12950.7	13451.0	14451.6	16516.1	17910.5	18345.2	18410.8	18888.5	18229.7	15320.8
55°	13254.1	13371.8	13940.0	15280.1	17702.3	19578.9	20366.7	20289.7	20518.3	19422.7	16251.2
57.5°	13324.2	13419.3	14134.7	15809.8	18594.2	21009.6	22139.2	22184.4	21919.6	20314.6	17018.6
60°	12781.0	12975.6	13797.4	15753.2	18994.9	22005.6	23461.2	23492.9	22741.3	20771.9	17324.2
62.5°	11818.9	11798.5	12792.3	14843.2	18433.5	22232.0	24239.9	24205.9	23062.8	20552.3	17027.7
64°	10490.1	10734.6	11662.7	13724.9	17528.0	21883.4	24321.4	24303.3	22908.8	20095.0	16522.9
65°	9679.7	9666.1	10582.9	12810.4	16627.0	21358.2	24176.5	24151.6	22587.4	19685.3	16131.3
67.5°	6988.1	7019.8	7925.3	9885.7	13516.7	19305.0	23232.5	23139.7	21319.7	18327.1	14641.7
70°	4233.2	4251.3	4962.1	6558.0	9702.3	15606.1	20941.7	20946.2	19379.7	16298.8	12461.8
72.5°	2229.8	2277.3	2562.5	3723.8	5892.5	10949.6	16989.2	17392.1	16638.3	13910.6	9844.9
75°	1240.5	1247.3	1448.8	1835.9	3006.2	6127.9	12769.6	12885.1	13172.6	11196.4	7280.1
77.5°	946.2	959.8	1023.2	1186.2	1636.7	2841.0	7728.3	8307.8	9283.5	7893.6	4153.9
80°	767.4	781.0	835.3	932.7	1088.8	1346.9	3590.3	3902.7	4968.9	3504.2	1620.8
82.5°	597.6	588.6	658.7	722.1	792.3	796.8	1473.7	1629.9	2023.8	1507.6	701.8
85°	443.7	443.7	500.3	486.7	511.6	466.3	649.7	717.6	810.4	640.6	326.0
87.5°	176.6	194.7	328.2	294.3	228.6	183.4	240.0	253.5	280.7	251.3	135.8
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°	5448.8	5448.8	5448.8	5448.8	5448.8	5448.8	5448.8	5448.8	5448.8	5448.8	5448.8
2.5°	5457.8	5464.6	5448.8	5437.5	5432.9	5426.1	5419.3	5421.6	5430.7	5439.7	5437.5
5°	5485.0	5487.3	5460.1	5446.5	5437.5	5428.4	5428.4	5435.2	5453.3	5466.9	5466.9
7.5°	5552.9	5552.9	5514.4	5489.5	5475.9	5460.1	5455.6	5457.8	5471.4	5489.5	5491.8
10°	5659.3	5650.2	5600.4	5562.0	5537.1	5498.6	5464.6	5446.5	5453.3	5464.6	5464.6
12.5°	5788.3	5763.4	5700.0	5648.0	5586.9	5514.4	5444.2	5408.0	5405.8	5417.1	5412.6
15°	5926.4	5899.3	5811.0	5715.9	5609.5	5503.1	5419.3	5367.3	5326.5	5315.2	5340.1
17.5°	6087.1	6030.5	5908.3	5777.0	5618.5	5480.5	5349.2	5242.8	5170.3	5150.0	5156.8
20°	6281.8	6207.1	6041.9	5835.9	5611.8	5399.0	5195.2	5052.6	4934.9	4898.7	4903.2
22.5°	6551.2	6422.2	6180.0	5865.3	5555.2	5245.0	4962.1	4776.4	4633.8	4577.2	4611.2
25°	6856.8	6716.5	6311.2	5858.5	5408.0	4998.3	4685.9	4443.7	4314.6	4230.9	4249.0
27.5°	7277.9	7028.8	6451.6	5797.4	5197.5	4697.2	4335.0	4106.4	3988.7	3945.7	3966.0
30°	7816.6	7434.1	6603.3	5632.1	4864.7	4316.9	3981.9	3832.5	3762.3	3708.0	3726.1
32.5°	8206.0	7719.3	6637.2	5353.7	4504.8	3970.6	3741.9	3631.0	3554.0	3502.0	3513.3
35°	8484.4	7961.5	6621.4	5011.9	4129.0	3685.3	3551.8	3461.2	3336.7	3223.5	3203.2
37.5°	8857.9	8264.8	6505.9	4638.4	3757.8	3492.9	3397.8	3230.3	3051.5	2899.8	2893.0
40°	9430.7	8620.2	6259.2	4199.2	3440.9	3350.3	3234.9	3017.5	2825.1	2702.9	2693.8
42.5°	10021.5	8948.5	5924.2	3737.4	3180.5	3200.9	3060.5	2845.5	2727.8	2648.6	2639.5
45°	10743.6	9303.9	5562.0	3336.7	2988.1	3060.5	2908.9	2784.4	2714.2	2662.1	2648.6
47.5°	11524.6	9668.3	5154.5	2976.8	2825.1	2931.5	2845.5	2788.9	2750.4	2714.2	2698.4
50°	12366.7	10075.8	4771.9	2687.0	2678.0	2798.0	2838.7	2818.3	2795.7	2784.4	2770.8
52.5°	13290.3	10492.3	4450.5	2483.3	2548.9	2702.9	2841.0	2856.8	2856.8	2850.0	2841.0
55°	13915.1	10782.1	4124.5	2318.0	2417.7	2625.9	2836.4	2897.6	2920.2	2911.1	2902.1
57.5°	14376.9	10940.6	3714.8	2175.4	2306.7	2551.2	2811.5	2902.1	2924.7	2936.0	2931.5
60°	14472.0	10793.4	3178.3	2026.0	2186.8	2442.6	2721.0	2834.2	2863.6	2933.8	2940.6
62.5°	14044.1	10340.7	2644.0	1878.9	2039.6	2277.3	2598.7	2757.2	2816.1	2924.7	2936.0
64°	13518.9	9833.6	2347.5	1786.1	1944.5	2184.5	2537.6	2736.8	2813.8	2958.7	2967.7
65°	13134.1	9464.6	2161.9	1727.2	1883.4	2123.4	2503.7	2743.6	2834.2	3010.7	3024.3
67.5°	11717.0	8194.7	1788.3	1589.1	1738.5	2019.2	2510.5	2800.2	2829.6	3031.1	3028.9
70°	9695.5	6524.0	1498.6	1462.4	1598.2	1935.5	2483.3	2709.7	2711.9	2845.5	2813.8
72.5°	7259.7	4821.7	1299.4	1331.1	1442.0	1736.3	2345.2	2587.4	2548.9	2567.1	2535.4
75°	4987.0	3189.6	1118.3	1190.7	1279.0	1534.8	2150.5	2349.7	2288.6	2266.0	2243.3
77.5°	2662.1	1763.4	930.4	1052.6	1111.5	1326.5	1876.6	2069.0	2005.7	1917.4	1887.9
80°	1077.5	830.8	749.3	871.5	905.5	1068.5	1562.0	1681.9	1634.4	1480.5	1430.7
82.5°	541.0	498.0	588.6	685.9	688.2	762.9	1161.3	1274.5	1168.1	980.2	937.2
85°	283.0	292.0	405.2	482.2	425.6	412.0	697.2	771.9	708.5	615.7	554.6
87.5°	101.9	117.7	212.8	210.5	149.4	79.2	153.9	74.7	40.7	24.9	31.7
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)