

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: P300566

Luminaire Tested: **GAA-AF-06-LED-U-RW-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300566  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAA-AF-06-LED-U-RW-7030  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND  
Rectangular Wide Type I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

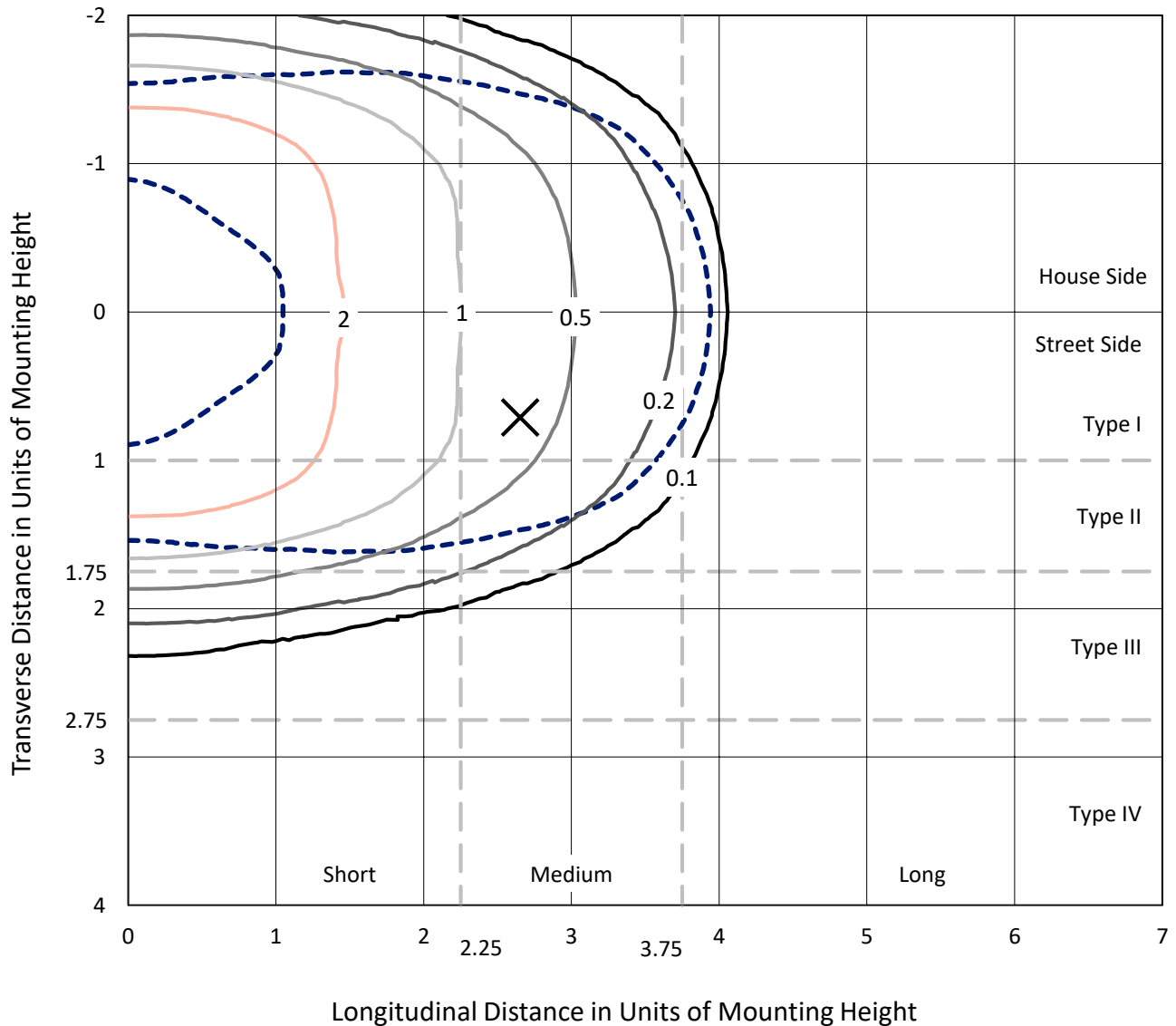
Lumens per Lamp: N/A  
Luminaire Lumens: 35081.1 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Medium - Full Cutoff  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 333  
Input Voltage (V): NR  
Input Current (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: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

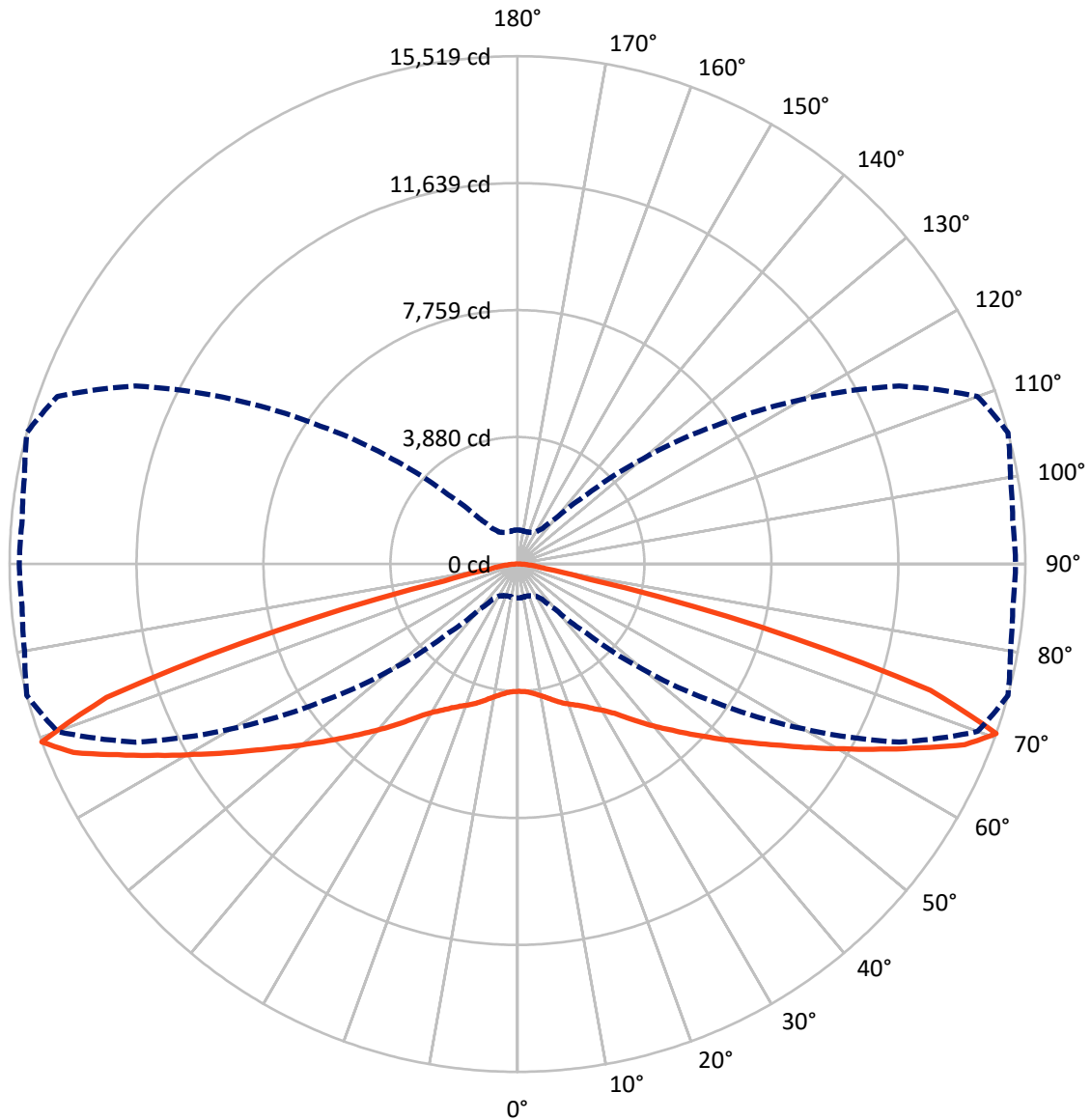


Based on 30 foot mounting height. Maximum calculated value = 4.4 fc  
 Type V - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17540.5	0.0	17540.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	17540.5	0.0	17540.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	35081.1	0.0	35081.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	373.2	1.1
10°-20°	1159.6	3.3
20°-30°	2182.6	6.2
30°-40°	3864.9	11.0
40°-50°	6463.4	18.4
50°-60°	9006.7	25.7
60°-70°	8352.3	23.8
70°-80°	3328.6	9.5
80°-90°	349.9	1.0
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°	35081.1	100.0
0°-180°	35081.1	100.0

**Coefficient of Utilization**



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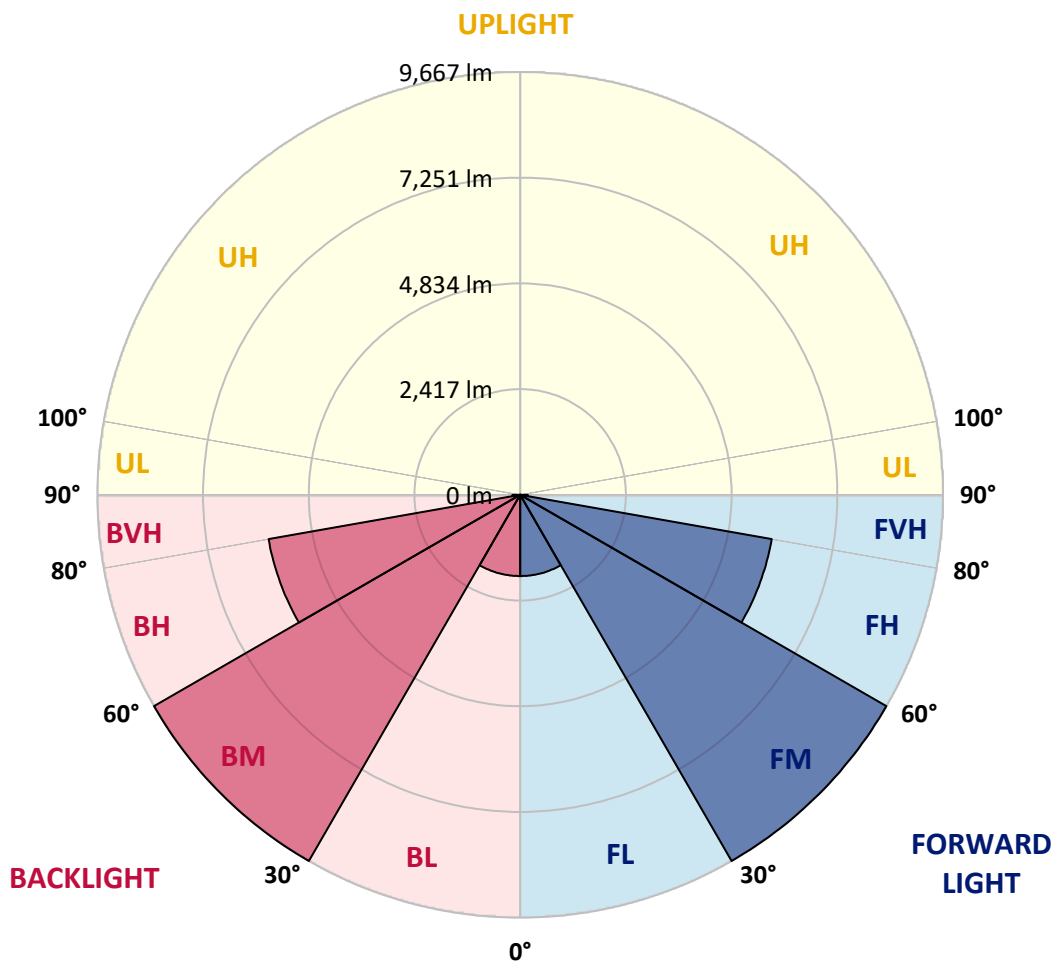
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1857.7	5.3			
FM	(30°-60°)	9667.5	27.6			
FH	(60°-80°)	5840.4	16.6			G3/7500
FVH	(80°-90°)	174.9	0.5			G2/225
BL	(0°-30°)	1857.7	5.3	B3/2500		
BM	(30°-60°)	9667.5	27.6	B5		
BH	(60°-80°)	5840.4	16.6	B5		G3/7500
BVH	(80°-90°)	174.9	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3891.3	3891.3	3891.3	3891.3	3891.3	3891.3	3891.3	3891.3	3891.3	3891.3	3891.3
2.5°	3884.7	3881.4	3884.7	3883.0	3886.3	3886.3	3889.7	3896.3	3896.3	3901.3	3899.6
5°	3846.5	3844.9	3849.9	3854.8	3859.8	3869.8	3879.7	3894.6	3906.2	3914.5	3922.8
7.5°	3771.9	3771.9	3778.6	3790.2	3801.8	3823.3	3846.5	3876.4	3906.2	3931.1	3952.7
10°	3710.6	3713.9	3722.2	3742.1	3762.0	3795.1	3826.6	3869.8	3911.2	3952.7	3985.8
12.5°	3674.1	3679.1	3694.0	3723.9	3757.0	3801.8	3849.9	3904.6	3951.0	4000.7	4033.9
15°	3685.7	3689.0	3710.6	3747.1	3790.2	3846.5	3911.2	3975.9	4030.6	4083.6	4128.4
17.5°	3750.4	3755.4	3780.2	3821.7	3866.4	3932.8	4002.4	4075.3	4143.3	4203.0	4257.7
20°	3866.4	3871.4	3902.9	3947.7	4000.7	4068.7	4138.4	4214.6	4290.9	4353.9	4415.2
22.5°	4030.6	4038.9	4068.7	4113.5	4173.2	4246.1	4329.0	4410.3	4483.2	4541.2	4596.0
25°	4246.1	4264.4	4292.5	4342.3	4405.3	4471.6	4561.1	4644.0	4713.7	4768.4	4808.2
27.5°	4551.2	4576.1	4597.6	4645.7	4707.0	4770.0	4859.6	4932.5	4998.9	5051.9	5081.8
30°	4955.7	4980.6	5002.2	5048.6	5105.0	5164.6	5249.2	5313.9	5355.3	5396.8	5395.1
32.5°	5446.5	5473.0	5481.3	5531.1	5589.1	5653.8	5730.0	5766.5	5799.7	5804.6	5774.8
35°	5995.3	6008.6	6041.7	6108.0	6174.4	6227.4	6300.4	6318.6	6318.6	6293.7	6227.4
37.5°	6597.2	6605.4	6651.9	6726.5	6794.5	6849.2	6898.9	6935.4	6917.1	6864.1	6753.0
40°	7257.0	7272.0	7338.3	7404.6	7480.9	7532.3	7585.3	7592.0	7573.7	7495.8	7344.9
42.5°	7887.1	7900.3	7966.7	8071.1	8170.6	8241.9	8291.6	8301.6	8243.5	8172.3	7984.9
45°	8429.2	8464.1	8550.3	8673.0	8817.2	8918.3	8986.3	9014.5	8963.1	8870.3	8653.1
47.5°	8858.7	8893.5	9016.2	9162.1	9341.1	9505.3	9618.0	9677.7	9664.4	9594.8	9357.7
50°	9173.7	9206.8	9339.5	9518.5	9727.4	9931.4	10123.7	10266.3	10316.0	10284.5	10067.3
52.5°	9210.2	9264.9	9420.7	9661.1	9933.0	10211.6	10485.2	10727.2	10891.4	10916.2	10755.4
55°	8701.2	8755.9	8971.4	9327.9	9732.4	10186.7	10624.4	11032.3	11355.6	11521.4	11436.8
57.5°	7500.8	7598.6	7825.7	8243.5	8838.8	9518.5	10216.6	10941.1	11599.3	12038.7	12123.2
60°	5748.3	5864.3	6093.1	6537.5	7200.7	8011.4	8943.2	10014.3	11176.5	12164.7	12754.9
62.5°	3687.4	3796.8	4037.2	4423.5	4964.0	5842.8	6842.5	8114.2	9676.1	11236.2	12642.2
65°	1895.1	1954.8	2080.8	2314.6	2735.7	3392.3	4289.2	5557.6	7343.3	9268.2	11300.9
67.5°	1200.4	1212.0	1240.2	1273.3	1381.1	1608.3	2026.1	2816.9	4285.9	6293.7	8673.0
70°	1037.9	1037.9	1024.6	1019.7	1032.9	1064.4	1129.1	1313.1	1808.9	2987.7	5002.2
72.5°	950.0	940.1	916.9	898.6	895.3	895.3	908.6	936.8	1016.4	1217.0	1958.1
75°	875.4	847.2	815.7	794.2	785.9	777.6	775.9	780.9	797.5	829.0	935.1
77.5°	784.2	747.8	711.3	689.7	679.8	668.2	658.2	646.6	638.3	648.3	694.7
80°	674.8	633.4	605.2	591.9	582.0	565.4	543.8	523.9	505.7	502.4	530.6
82.5°	543.8	495.7	497.4	502.4	484.1	460.9	437.7	416.2	384.7	368.1	384.7
85°	439.4	414.5	402.9	434.4	407.9	373.0	336.6	298.4	248.7	208.9	227.1
87.5°	170.8	170.8	255.3	392.9	353.2	288.5	247.0	210.6	131.0	101.1	102.8
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3891.3	3891.3	3891.3	3891.3	3891.3	3891.3	3891.3	3891.3
2.5°	3897.9	3901.3	3899.6	3897.9	3897.9	3896.3	3897.9	3897.9
5°	3927.8	3936.1	3936.1	3939.4	3939.4	3941.1	3942.7	3941.1
7.5°	3972.6	3987.5	3997.4	4009.0	4010.7	4012.3	4015.7	4012.3
10°	4017.3	4047.2	4068.7	4090.3	4100.2	4103.5	4106.9	4106.9
12.5°	4073.7	4115.1	4153.3	4191.4	4209.6	4219.6	4219.6	4226.2
15°	4166.5	4208.0	4252.8	4304.2	4335.7	4352.2	4357.2	4357.2
17.5°	4297.5	4334.0	4372.1	4421.9	4461.7	4483.2	4488.2	4486.5
20°	4450.1	4484.9	4506.4	4537.9	4572.7	4597.6	4604.2	4604.2
22.5°	4624.1	4644.0	4647.4	4657.3	4685.5	4718.6	4733.6	4736.9
25°	4816.5	4821.4	4808.2	4808.2	4826.4	4857.9	4872.8	4874.5
27.5°	5065.2	5040.3	5007.1	4995.5	5007.1	5043.6	5061.9	5068.5
30°	5375.2	5315.5	5239.3	5197.8	5191.2	5239.3	5272.4	5277.4
32.5°	5730.0	5643.8	5542.7	5458.1	5436.6	5466.4	5506.2	5504.5
35°	6151.2	6048.4	5925.7	5817.9	5768.2	5798.0	5854.4	5861.0
37.5°	6636.9	6502.7	6361.7	6225.8	6147.8	6156.1	6215.8	6235.7
40°	7179.1	7005.0	6827.6	6645.2	6534.2	6512.6	6585.6	6597.2
42.5°	7759.4	7535.6	7311.8	7086.3	6943.7	6910.5	6995.1	6990.1
45°	8377.8	8092.7	7830.7	7582.0	7412.9	7363.1	7432.8	7432.8
47.5°	9042.7	8691.2	8379.5	8097.6	7913.6	7842.3	7908.6	7913.6
50°	9747.3	9374.3	9007.9	8694.5	8474.0	8382.8	8469.0	8482.3
52.5°	10448.7	10085.6	9715.8	9357.7	9090.8	8979.7	9079.2	9122.3
55°	11160.0	10803.5	10450.3	10100.5	9783.8	9652.8	9759.0	9813.7
57.5°	11911.0	11581.1	11244.5	10891.4	10586.3	10382.4	10495.1	10568.1
60°	12791.4	12509.6	12159.7	11770.1	11461.7	11254.5	11319.1	11383.8
62.5°	13487.8	13597.2	13300.4	12849.5	12453.2	12187.9	12250.9	12318.9
65°	13151.2	14273.7	14537.3	14081.3	13532.5	13119.7	13093.2	13128.0
67.5°	10992.5	13172.8	14762.8	15197.2	14737.9	14164.2	14058.1	14109.5
70°	7353.2	10069.0	12874.3	14963.4	15518.8	15296.6	15192.2	15223.7
72.5°	3531.5	5864.3	8734.3	11511.4	13202.6	13978.5	14227.2	14348.3
75°	1291.6	2327.8	4209.6	6343.5	7658.3	8865.3	9652.8	9974.5
77.5°	779.3	940.1	1344.6	2024.4	2293.0	2566.6	2460.5	2513.5
80°	577.0	651.6	737.8	829.0	858.8	858.8	825.7	799.2
82.5°	404.6	452.6	494.1	543.8	557.1	532.2	437.7	348.2
85°	260.3	281.9	300.1	331.6	323.3	308.4	207.2	184.0
87.5°	119.4	136.0	142.6	157.5	150.9	144.2	102.8	86.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)