

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: P193407

Luminaire Tested: **GAN-AF-09-LED-U-5NQ-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193407  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-09-LED-U-5NQ-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 49135 lumens  
Efficiency: N/A  
Efficacy: 85.5 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G3

Input Watts (W): 575  
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

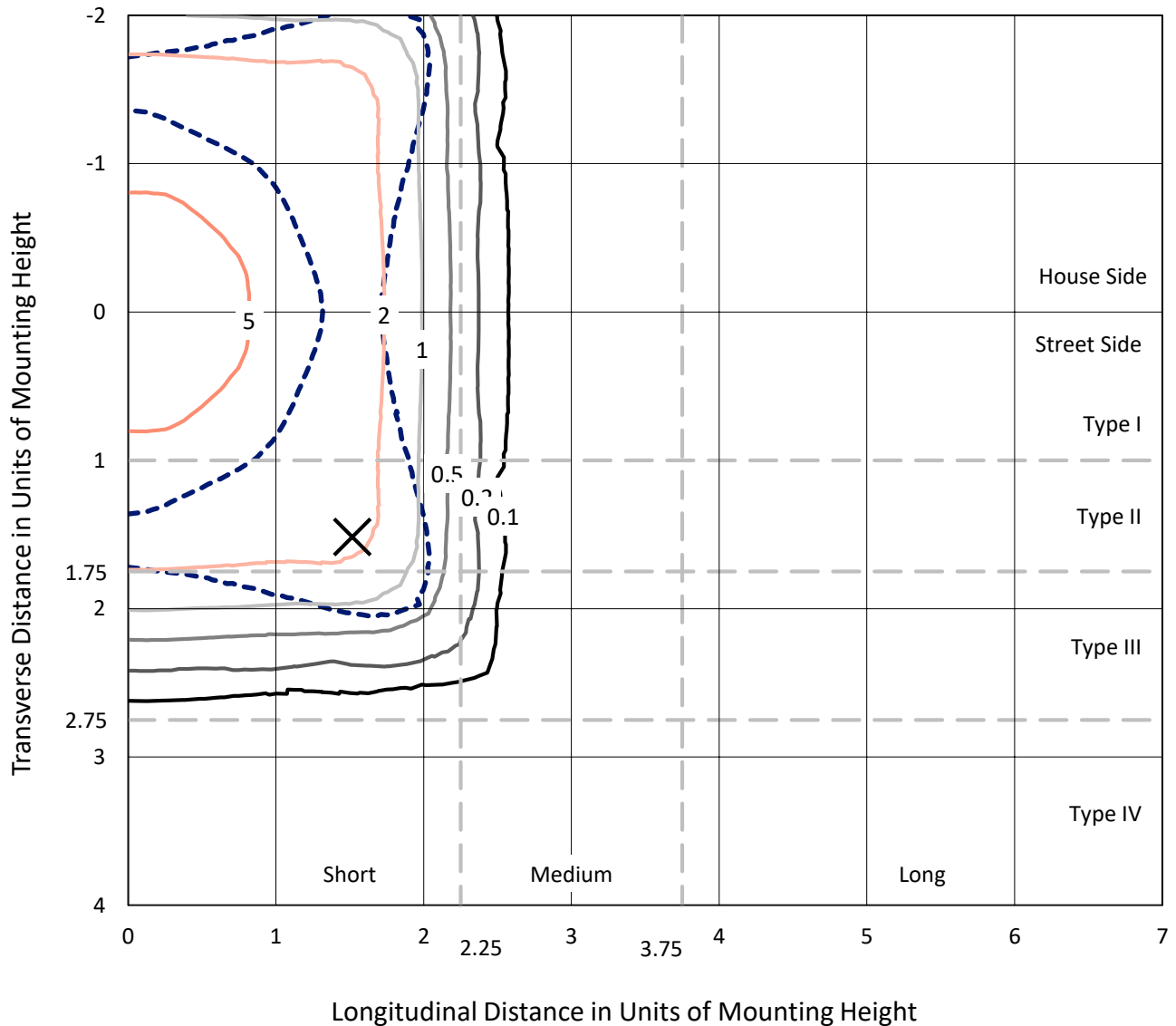


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### Iso-Footcandle Lines of Horizontal Illumination

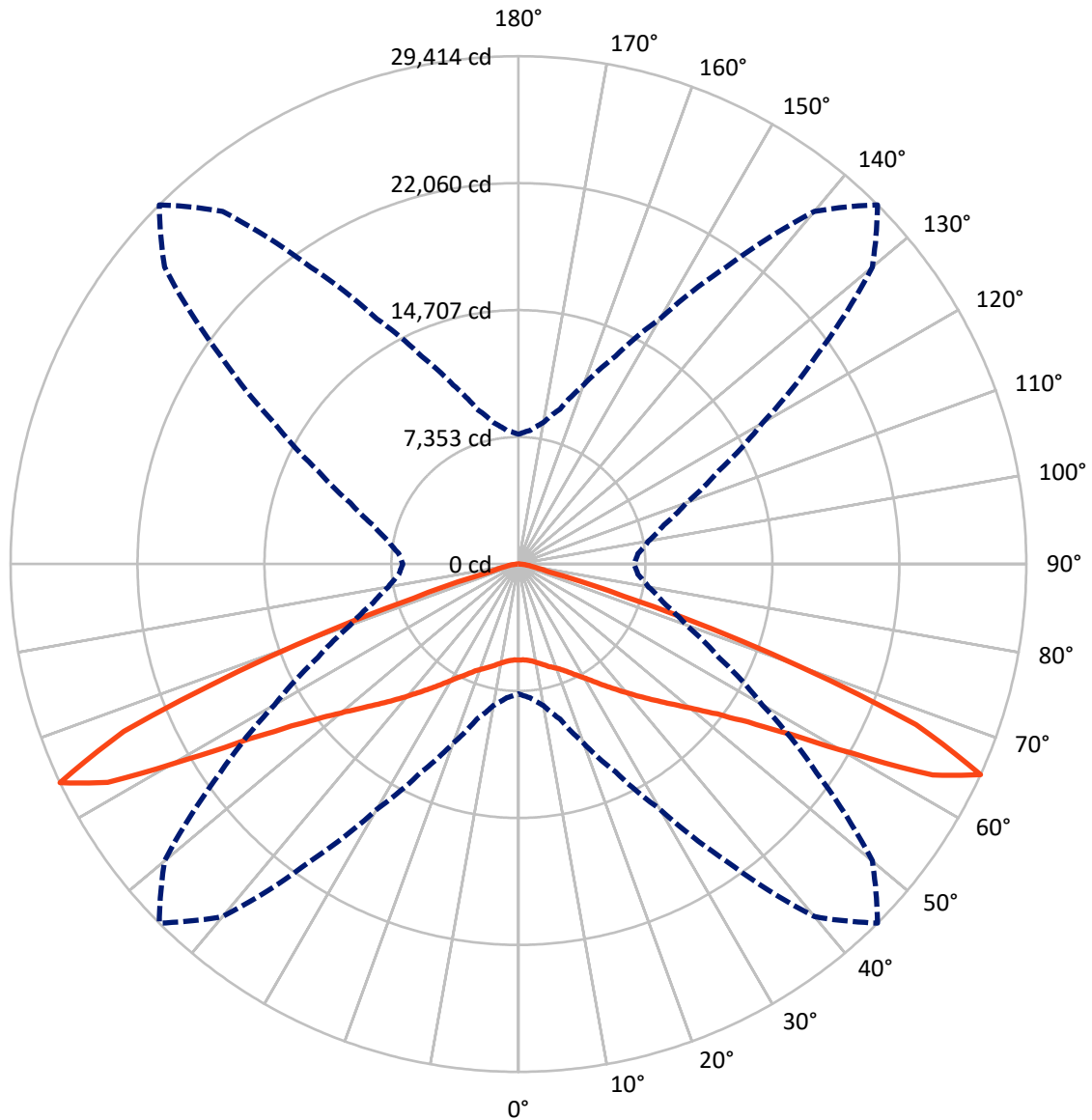
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	24567.5	0.0	24567.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	24567.5	0.0	24567.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	49135.0	0.0	49135.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	541.9	1.1
10°-20°	1737.9	3.5
20°-30°	3249.6	6.6
30°-40°	5496.0	11.2
40°-50°	8986.5	18.3
50°-60°	14290.0	29.1
60°-70°	12917.2	26.3
70°-80°	1634.7	3.3
80°-90°	281.2	0.6
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°	49135.0	100.0
0°-180°	49135.0	100.0



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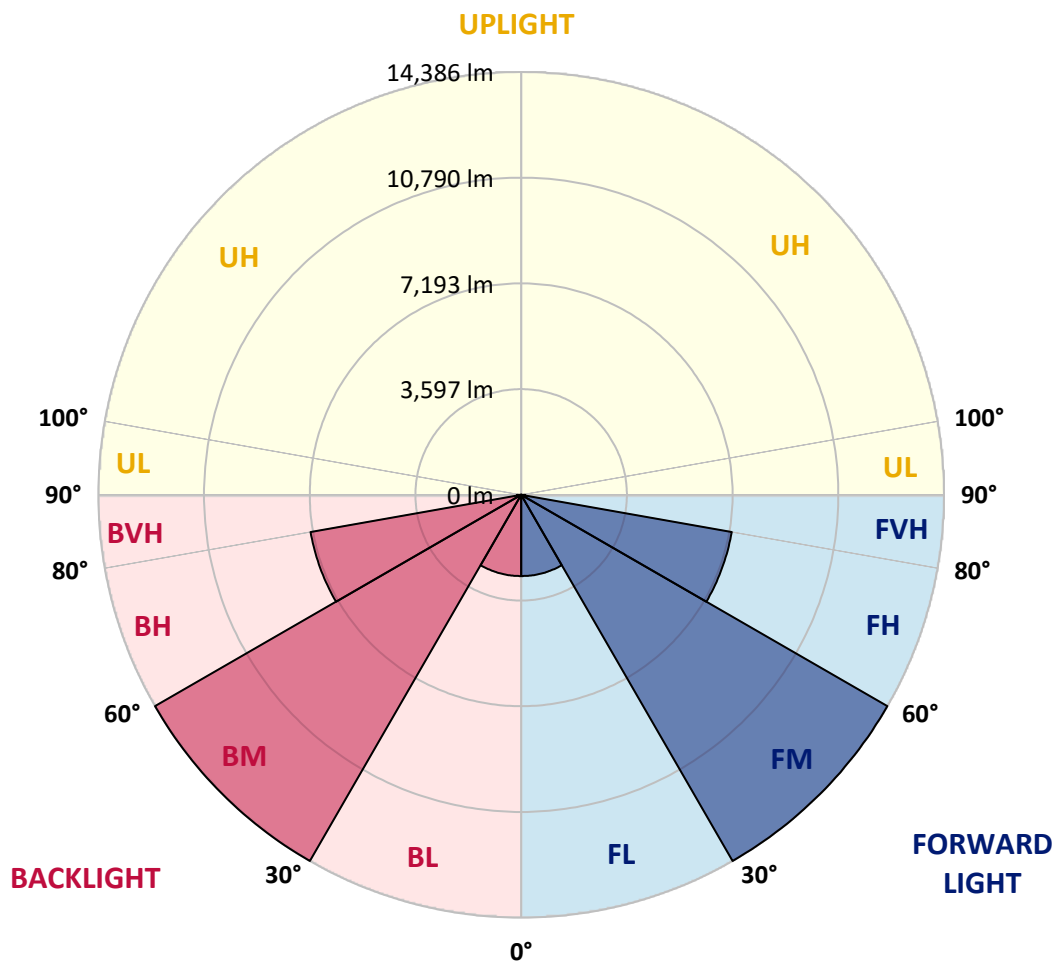
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2764.7	5.6			
FM (30°-60°)	14386.2	29.3			
FH (60°-80°)	7276.0	14.8			G3/7500
FVH (80°-90°)	140.6	0.3			G2/225
BL (0°-30°)	2764.7	5.6	B4/5000		
BM (30°-60°)	14386.2	29.3	B5		
BH (60°-80°)	7276.0	14.8	B5		G3/7500
BVH (80°-90°)	140.6	0.3			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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5559.7	5559.7	5559.7	5559.7	5559.7	5559.7	5559.7	5559.7	5559.7	5559.7	5559.7
2.5°	5564.3	5568.9	5573.5	5568.9	5573.5	5566.6	5562.0	5568.9	5562.0	5555.0	5559.7
5°	5612.6	5614.9	5614.9	5608.0	5614.9	5610.3	5603.4	5612.6	5605.7	5598.8	5603.4
7.5°	5693.1	5702.3	5695.4	5688.5	5693.1	5688.5	5683.9	5686.2	5683.9	5677.0	5679.3
10°	5801.3	5808.2	5803.6	5801.3	5805.9	5803.6	5799.0	5796.7	5799.0	5792.1	5792.1
12.5°	5932.4	5930.1	5927.8	5930.1	5937.0	5937.0	5934.7	5937.0	5941.6	5943.9	5939.3
15°	6061.3	6065.9	6065.9	6065.9	6079.7	6091.2	6098.1	6102.7	6111.9	6114.2	6105.0
17.5°	6222.4	6222.4	6220.1	6222.4	6236.2	6254.6	6261.5	6270.7	6279.9	6286.8	6275.3
20°	6401.9	6406.5	6406.5	6411.1	6429.5	6450.2	6450.2	6454.8	6450.2	6454.8	6447.9
22.5°	6620.5	6634.3	6634.3	6636.6	6655.0	6680.3	6673.4	6680.3	6668.8	6678.0	6668.8
25°	6905.8	6926.6	6922.0	6922.0	6935.8	6951.9	6954.2	6968.0	6965.7	6977.2	6970.3
27.5°	7228.0	7260.2	7269.4	7267.1	7276.3	7292.4	7297.0	7313.2	7303.9	7313.2	7308.5
30°	7614.6	7628.4	7646.8	7653.7	7665.2	7681.3	7681.3	7683.6	7672.1	7685.9	7692.8
32.5°	8015.0	8040.3	8058.7	8100.2	8120.9	8132.4	8130.1	8134.7	8123.2	8141.6	8155.4
35°	8544.3	8562.7	8592.6	8624.8	8652.4	8650.1	8643.2	8645.5	8645.5	8661.6	8675.4
37.5°	9181.7	9186.3	9225.4	9271.5	9285.3	9271.5	9230.0	9220.8	9200.1	9220.8	9243.8
40°	9856.0	9872.1	9950.3	9980.2	9987.1	9961.8	9902.0	9867.5	9821.4	9846.8	9879.0
42.5°	10562.4	10594.6	10666.0	10718.9	10741.9	10725.8	10643.0	10590.0	10530.2	10544.0	10576.2
45°	11344.8	11383.9	11485.2	11535.8	11579.5	11554.2	11473.7	11393.1	11298.8	11305.7	11356.3
47.5°	12219.3	12258.4	12389.6	12474.7	12497.7	12493.1	12403.4	12292.9	12164.0	12159.4	12203.2
50°	13199.6	13238.7	13402.1	13533.2	13600.0	13593.1	13487.2	13330.7	13174.3	13176.6	13231.8
52.5°	14156.9	14205.2	14375.5	14601.0	14732.2	14826.5	14762.1	14614.8	14423.8	14428.4	14479.0
55°	15054.3	15134.9	15330.5	15636.5	15880.4	16145.1	16221.0	16216.4	16101.4	16133.6	16184.2
57.5°	15489.2	15608.9	15910.4	16393.6	16890.7	17429.1	17884.8	18225.3	18370.3	18588.9	18538.3
60°	14665.4	14856.4	15300.5	16011.6	16994.2	18117.2	19320.7	20496.6	21499.9	22257.0	21822.1
62.5°	12007.6	12256.1	12794.6	13705.8	15192.4	16989.6	19293.1	22072.9	25101.3	26928.4	25623.6
65°	7513.4	7771.1	8318.8	9294.5	11034.2	13268.6	16393.6	21000.6	26659.2	29413.7	26758.1
67.5°	2929.4	3069.8	3366.6	3990.2	5297.3	7285.5	10422.0	15650.3	22418.1	24832.0	22001.6
70°	1468.2	1482.0	1537.2	1652.2	1933.0	2510.6	3820.0	7255.6	12856.7	15528.4	12394.2
72.5°	1060.8	1063.1	1090.8	1141.4	1231.1	1360.0	1608.5	2220.6	4181.2	6390.4	3918.9
75°	812.3	821.5	837.6	865.2	913.6	978.0	1067.7	1279.5	1585.5	1838.6	1546.4
77.5°	625.9	644.3	655.8	681.1	711.1	754.8	780.1	860.6	1001.0	1053.9	1037.8
80°	476.3	492.5	517.8	538.5	559.2	579.9	570.7	607.5	681.1	724.9	701.9
82.5°	303.8	322.2	395.8	414.2	423.4	437.2	421.1	423.4	455.6	483.2	455.6
85°	195.6	207.1	250.8	273.8	276.1	285.3	278.4	262.3	262.3	239.3	269.2
87.5°	89.7	92.0	112.8	133.5	138.1	124.3	122.0	117.4	94.3	89.7	96.6
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°	5559.7	5559.7	5559.7	5559.7	5559.7	5559.7	5559.7	5559.7
2.5°	5557.4	5562.0	5564.3	5571.2	5573.5	5573.5	5575.8	5580.4
5°	5601.1	5608.0	5610.3	5619.5	5621.8	5619.5	5624.1	5626.4
7.5°	5679.3	5690.8	5695.4	5704.6	5697.7	5706.9	5709.2	5709.2
10°	5794.4	5805.9	5808.2	5817.4	5812.8	5817.4	5817.4	5812.8
12.5°	5946.2	5948.6	5941.6	5948.6	5939.3	5943.9	5937.0	5932.4
15°	6114.2	6107.3	6091.2	6091.2	6077.4	6079.7	6077.4	6075.1
17.5°	6277.6	6263.8	6252.3	6247.7	6236.2	6233.9	6227.0	6227.0
20°	6457.1	6450.2	6443.3	6434.1	6422.6	6411.1	6408.8	6413.4
22.5°	6673.4	6671.1	6671.1	6666.5	6650.4	6638.9	6632.0	6632.0
25°	6963.4	6942.7	6942.7	6940.4	6933.5	6926.6	6912.7	6919.6
27.5°	7290.1	7278.6	7287.8	7285.5	7278.6	7278.6	7269.4	7269.4
30°	7692.8	7688.2	7702.1	7690.5	7667.5	7665.2	7656.0	7644.5
32.5°	8157.7	8153.1	8173.8	8160.0	8123.2	8102.5	8084.0	8074.8
35°	8675.4	8677.8	8703.1	8693.9	8652.4	8638.6	8606.4	8601.8
37.5°	9241.5	9278.4	9322.1	9331.3	9296.8	9287.6	9253.0	9234.6
40°	9906.6	9954.9	10021.6	10037.7	10000.9	9994.0	9945.7	9920.4
42.5°	10615.3	10698.2	10781.0	10794.8	10758.0	10721.2	10675.2	10656.8
45°	11407.0	11505.9	11614.1	11641.7	11586.4	11542.7	11482.9	11482.9
47.5°	12295.2	12419.5	12541.4	12617.4	12566.7	12520.7	12449.4	12403.4
50°	13344.5	13514.8	13673.6	13751.9	13671.3	13583.9	13459.6	13418.2
52.5°	14660.8	14844.9	14983.0	14941.6	14817.3	14695.3	14559.6	14504.3
55°	16340.7	16402.8	16402.8	16246.3	15997.8	15793.0	15579.0	15507.7
57.5°	18441.7	18202.3	17834.1	17367.0	16780.2	16269.3	15924.2	15760.8
60°	20910.8	19760.2	18460.1	17182.9	16133.6	15268.3	14755.2	14520.4
62.5°	22556.2	19546.2	16941.3	14890.9	13381.4	12338.9	11630.2	11354.0
65°	21081.1	16301.6	12813.0	10359.9	8714.6	7653.7	6951.9	6694.1
67.5°	15440.9	10214.9	6823.0	4890.0	3582.9	2858.1	2570.4	2450.8
70°	6931.2	3596.7	2204.5	1721.3	1484.3	1362.3	1309.4	1291.0
72.5°	2089.5	1511.9	1274.9	1150.6	1056.2	996.4	952.7	948.1
75°	1261.0	1049.3	932.0	858.3	798.5	750.2	727.2	720.3
77.5°	881.4	770.9	715.7	662.7	616.7	579.9	559.2	543.1
80°	619.0	566.1	540.8	510.9	480.9	446.4	416.5	402.7
82.5°	414.2	402.7	402.7	384.3	359.0	326.8	266.9	253.1
85°	266.9	264.6	269.2	262.3	243.9	209.4	172.6	163.4
87.5°	124.3	126.6	140.4	138.1	133.5	110.5	87.4	82.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)