

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: P268887

Luminaire Tested: **GAN-AF-10-LED-U-5NQ-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P268887  
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-10-LED-U-5NQ-7027-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42660.1 lumens  
Efficiency: N/A  
Efficacy: 101.8 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): 419  
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

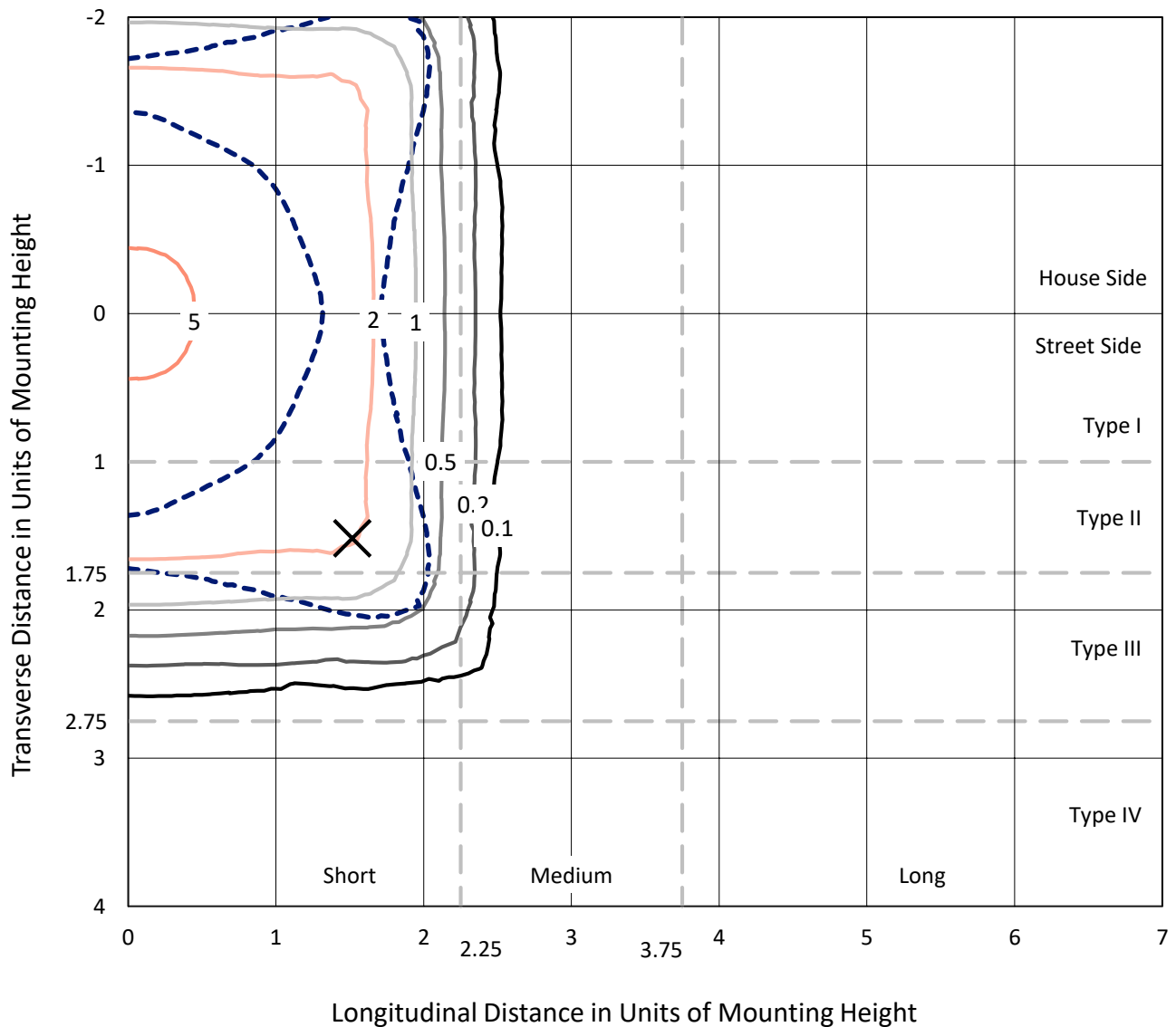


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

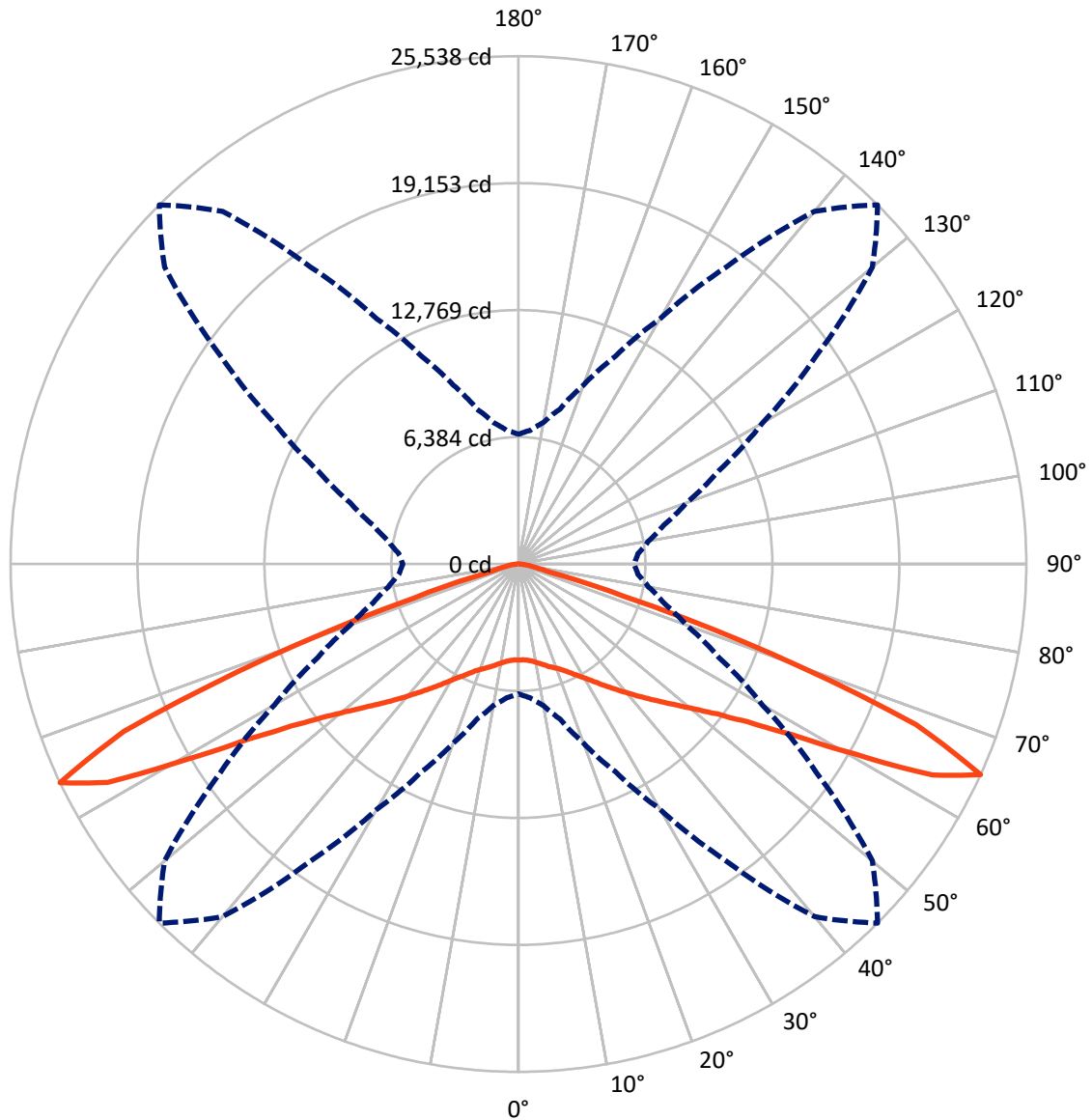


Based on 30 foot mounting height. Maximum calculated value = 5.4 fc  
 Type V - Short - Full Cutoff

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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	21330.0	0.0	21330.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	21330.0	0.0	21330.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	42660.1	0.0	42660.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	470.5	1.1
10°-20°	1508.9	3.5
20°-30°	2821.4	6.6
30°-40°	4771.7	11.2
40°-50°	7802.3	18.3
50°-60°	12406.9	29.1
60°-70°	11215.0	26.3
70°-80°	1419.3	3.3
80°-90°	244.1	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°	42660.1	100.0
0°-180°	42660.1	100.0

**Coefficient of Utilization**



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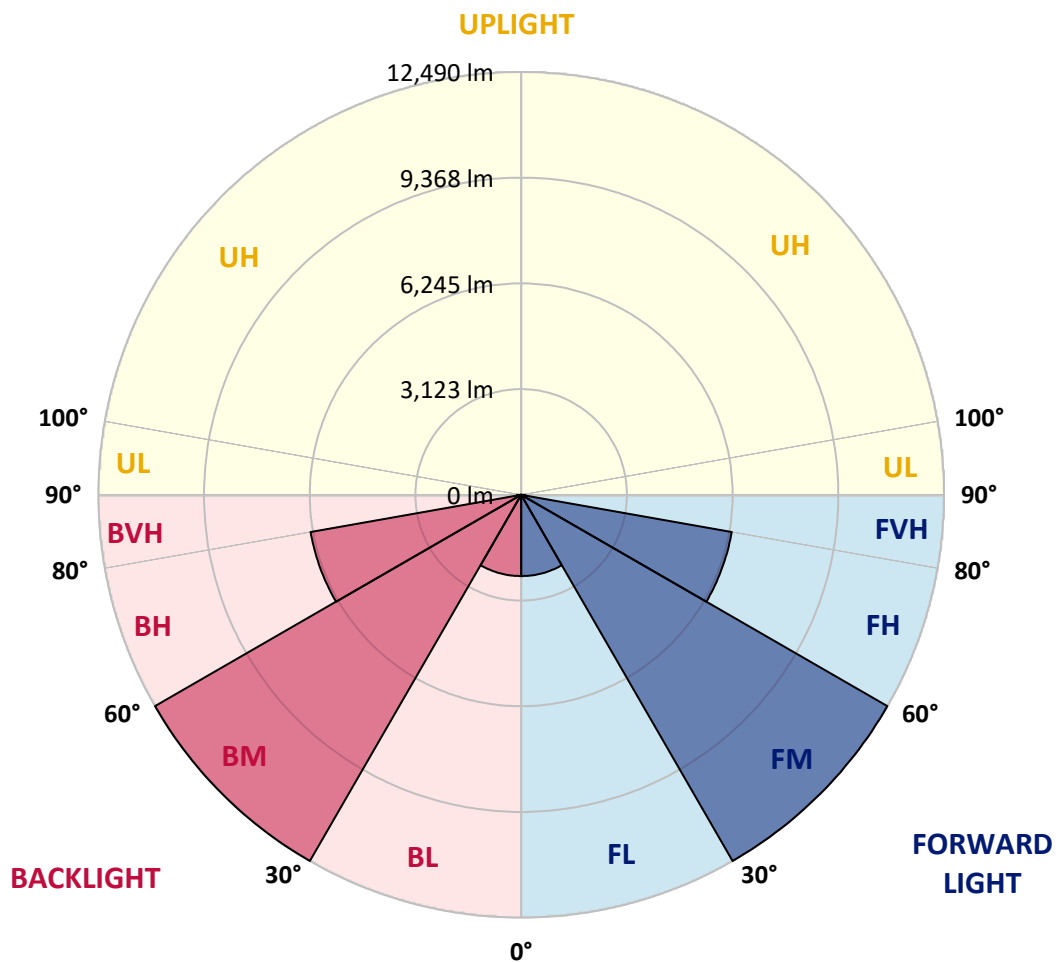
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2400.4	5.6			
FM	(30°-60°)	12490.4	29.3			
FH	(60°-80°)	6317.2	14.8			G3/7500
FVH	(80°-90°)	122.1	0.3			G2/225
BL	(0°-30°)	2400.4	5.6	B3/2500		
BM	(30°-60°)	12490.4	29.3	B5		
BH	(60°-80°)	6317.2	14.8	B5		G3/7500
BVH	(80°-90°)	122.1	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°	4827.0	4827.0	4827.0	4827.0	4827.0	4827.0	4827.0	4827.0	4827.0	4827.0	4827.0
2.5°	4831.1	4834.9	4839.0	4834.9	4839.0	4833.1	4829.0	4834.9	4829.0	4823.0	4827.0
5°	4872.9	4874.9	4874.9	4869.0	4874.9	4871.0	4865.0	4872.9	4866.9	4861.0	4865.0
7.5°	4943.0	4950.9	4944.9	4938.9	4943.0	4938.9	4934.8	4936.8	4934.8	4928.9	4930.8
10°	5036.7	5042.7	5038.9	5036.7	5040.7	5038.9	5034.8	5032.8	5034.8	5028.8	5028.8
12.5°	5150.7	5148.6	5146.7	5148.6	5154.7	5154.7	5152.7	5154.7	5158.6	5160.7	5156.7
15°	5262.6	5266.6	5266.6	5266.6	5278.5	5288.5	5294.5	5298.6	5306.5	5308.5	5300.4
17.5°	5402.4	5402.4	5400.4	5402.4	5414.4	5430.3	5436.5	5444.4	5452.4	5458.3	5448.4
20°	5558.3	5562.2	5562.2	5566.3	5582.2	5600.3	5600.3	5604.2	5600.3	5604.2	5598.1
22.5°	5748.1	5760.0	5760.0	5762.1	5778.0	5799.9	5794.0	5799.9	5790.0	5798.0	5790.0
25°	5995.7	6013.9	6009.8	6009.8	6021.8	6035.7	6037.8	6049.7	6047.7	6057.7	6051.7
27.5°	6275.5	6303.4	6311.5	6309.4	6317.5	6331.4	6335.4	6349.4	6341.5	6349.4	6345.4
30°	6611.2	6623.2	6639.2	6645.1	6655.2	6669.0	6669.0	6671.2	6661.1	6673.1	6679.1
32.5°	6958.8	6980.8	6996.8	7032.7	7050.6	7060.7	7058.7	7062.7	7052.8	7068.8	7080.7
35°	7418.4	7434.4	7460.3	7488.4	7512.3	7510.2	7504.3	7506.2	7506.2	7520.3	7532.2
37.5°	7971.7	7975.7	8009.7	8049.7	8061.7	8049.7	8013.7	8005.8	7987.8	8005.8	8025.6
40°	8557.2	8571.2	8639.1	8665.1	8671.0	8649.2	8597.0	8567.1	8527.3	8549.2	8577.1
42.5°	9170.5	9198.6	9260.4	9306.4	9326.4	9312.4	9240.4	9194.5	9142.6	9154.5	9182.6
45°	9849.8	9883.8	9971.6	10015.7	10053.7	10031.6	9961.8	9891.7	9809.9	9815.9	9859.7
47.5°	10609.1	10642.9	10756.8	10830.9	10850.7	10846.8	10768.9	10672.9	10561.2	10557.2	10595.1
50°	11460.1	11494.2	11635.9	11749.9	11807.9	11801.8	11709.9	11574.0	11438.2	11440.2	11488.2
52.5°	12291.2	12333.3	12481.1	12676.9	12790.7	12872.7	12816.7	12688.9	12523.0	12527.0	12571.1
55°	13070.5	13140.4	13310.2	13575.9	13787.7	14017.5	14083.4	14079.5	13979.6	14007.5	14051.5
57.5°	13448.0	13552.0	13813.7	14233.3	14664.8	15132.4	15527.9	15823.6	15949.5	16139.3	16095.4
60°	12732.8	12898.7	13284.2	13901.6	14754.8	15729.7	16774.7	17795.7	18666.7	19324.0	18946.4
62.5°	10425.2	10641.1	11108.5	11899.7	13190.4	14750.8	16750.7	19164.3	21793.5	23379.8	22247.1
65°	6523.2	6747.0	7222.6	8069.7	9580.2	11520.1	14233.3	18233.2	23146.1	25537.6	23232.0
67.5°	2543.5	2665.2	2922.9	3464.5	4599.2	6325.4	9048.6	13587.9	19463.8	21559.7	19102.3
70°	1274.7	1286.6	1334.6	1434.6	1678.3	2179.7	3316.5	6299.5	11162.5	13482.0	10760.8
72.5°	921.0	923.1	947.1	991.0	1069.0	1180.8	1396.5	1928.0	3630.2	5548.3	3402.5
75°	705.3	713.3	727.3	751.3	793.2	849.1	927.1	1110.8	1376.7	1596.4	1342.5
77.5°	543.5	559.5	569.4	591.4	617.3	655.4	677.3	747.2	869.1	915.1	901.1
80°	413.6	427.6	449.5	467.5	485.5	503.5	495.4	527.5	591.4	629.4	609.4
82.5°	263.7	279.7	343.6	359.6	367.6	379.7	365.6	367.6	395.7	419.6	395.7
85°	169.8	179.8	217.7	237.7	239.8	247.8	241.7	227.8	227.8	207.8	233.7
87.5°	78.0	79.9	97.8	115.9	119.8	107.8	105.9	101.9	81.9	78.0	83.9
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°	4827.0	4827.0	4827.0	4827.0	4827.0	4827.0	4827.0	4827.0
2.5°	4825.1	4829.0	4831.1	4837.1	4839.0	4839.0	4841.0	4845.0
5°	4863.0	4869.0	4871.0	4879.0	4881.0	4879.0	4882.9	4885.0
7.5°	4930.8	4940.9	4944.9	4952.9	4946.8	4955.0	4956.8	4956.8
10°	5030.8	5040.7	5042.7	5050.8	5046.8	5050.8	5050.8	5046.8
12.5°	5162.6	5164.6	5158.6	5164.6	5156.7	5160.7	5154.7	5150.7
15°	5308.5	5302.5	5288.5	5288.5	5276.6	5278.5	5276.6	5274.6
17.5°	5450.3	5438.3	5428.4	5424.3	5414.4	5412.4	5406.4	5406.4
20°	5606.2	5600.3	5594.3	5586.2	5576.3	5566.3	5564.2	5568.2
22.5°	5794.0	5792.0	5792.0	5788.0	5774.0	5764.1	5758.0	5758.0
25°	6045.8	6027.7	6027.7	6025.8	6019.8	6013.9	6001.8	6007.8
27.5°	6329.5	6319.4	6327.4	6325.4	6319.4	6319.4	6311.5	6311.5
30°	6679.1	6675.0	6687.2	6677.1	6657.1	6655.2	6647.1	6637.1
32.5°	7082.6	7078.6	7096.7	7084.8	7052.8	7034.7	7018.7	7010.7
35°	7532.2	7534.3	7556.3	7548.2	7512.3	7500.3	7472.3	7468.2
37.5°	8023.8	8055.7	8093.5	8101.6	8071.7	8063.6	8033.7	8017.7
40°	8601.1	8643.0	8701.1	8714.9	8683.0	8677.1	8635.0	8613.0
42.5°	9216.5	9288.5	9360.2	9372.3	9340.3	9308.3	9268.4	9252.5
45°	9903.8	9989.7	10083.6	10107.5	10059.6	10021.6	9969.7	9969.7
47.5°	10675.0	10782.9	10888.7	10954.7	10910.8	10870.7	10808.9	10768.9
50°	11586.0	11733.9	11871.7	11939.6	11869.8	11793.8	11686.0	11649.9
52.5°	12728.9	12888.7	13008.5	12972.7	12864.6	12758.7	12640.9	12593.0
55°	14187.3	14241.3	14241.3	14105.5	13889.7	13711.8	13526.0	13464.1
57.5°	16011.5	15803.7	15484.1	15078.4	14568.9	14125.4	13825.8	13683.8
60°	18155.3	17156.3	16027.4	14918.6	14007.5	13256.3	12810.8	12607.0
62.5°	19583.8	16970.5	14708.8	12928.6	11618.0	10712.9	10097.6	9857.8
65°	18303.1	14153.3	11124.5	8994.6	7566.2	6645.1	6035.7	5812.0
67.5°	13406.1	8868.8	5924.0	4245.6	3110.8	2481.5	2231.7	2127.7
70°	6017.7	3122.8	1914.0	1494.5	1288.7	1182.8	1136.8	1120.8
72.5°	1814.1	1312.7	1106.8	998.9	917.1	865.1	827.2	823.1
75°	1094.9	911.1	809.2	745.2	693.3	651.4	631.4	625.4
77.5°	765.1	669.2	621.4	575.5	535.4	503.5	485.5	471.5
80°	537.5	491.6	469.5	443.6	417.5	387.6	361.6	349.6
82.5°	359.6	349.6	349.6	333.7	311.7	283.8	231.8	219.7
85°	231.8	229.7	233.7	227.8	211.8	181.7	149.8	141.8
87.5°	107.8	110.0	121.9	119.8	115.9	95.8	75.9	72.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)