

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: P190837

Luminaire Tested: **GAN-AF-09-LED-U-5NQ-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190837
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-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36996 lumens
Efficiency: N/A
Efficacy: 127.6 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

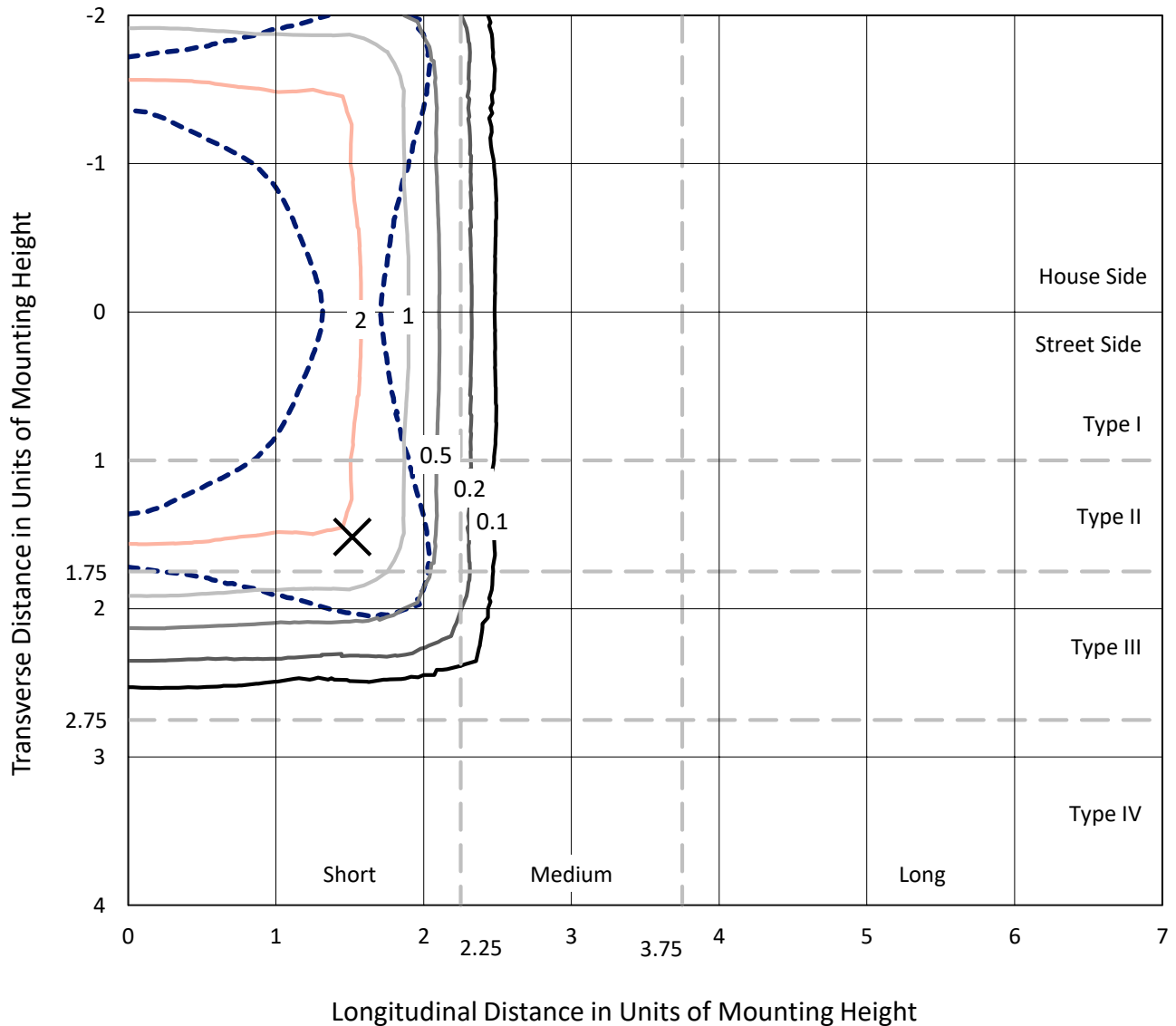
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

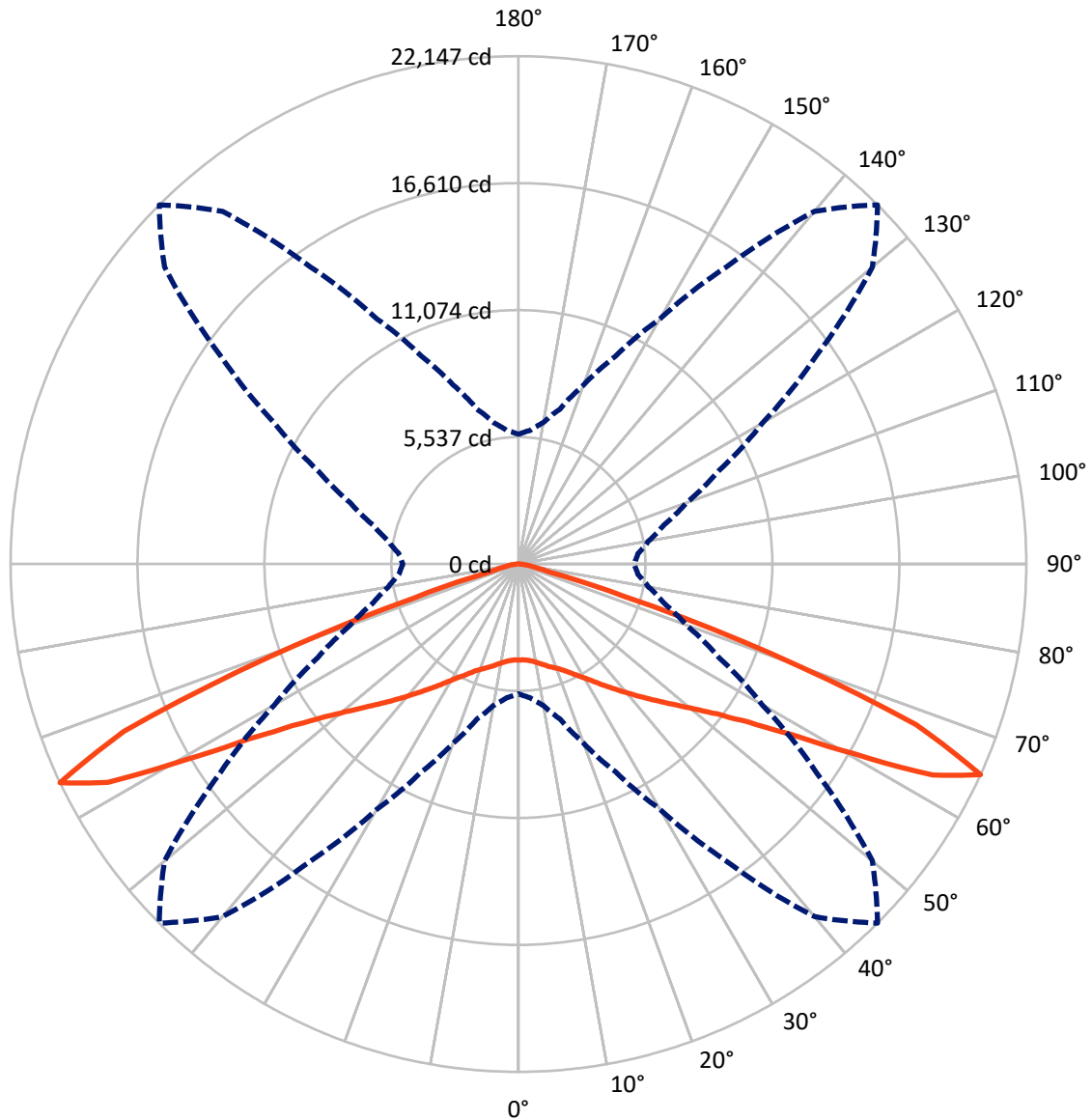
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.7 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
House Side	Lumens	18498.0	0.0	18498.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18498.0	0.0	18498.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	36996.0	0.0	36996.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.0	1.1
10°-20°	1308.6	3.5
20°-30°	2446.8	6.6
30°-40°	4138.2	11.2
40°-50°	6766.4	18.3
50°-60°	10759.6	29.1
60°-70°	9726.0	26.3
70°-80°	1230.9	3.3
80°-90°	211.7	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°	36996.0	100.0
0°-180°	36996.0	100.0



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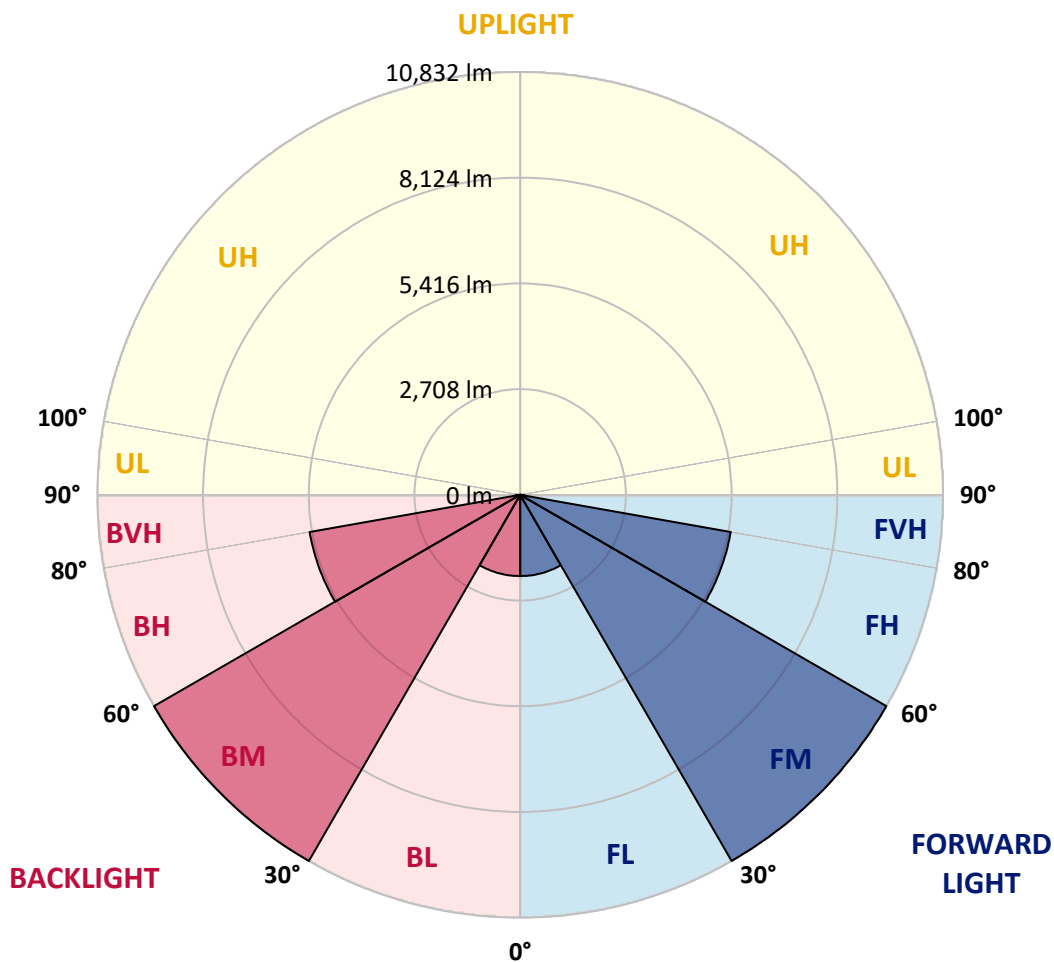
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2081.7	5.6			
FM	(30°-60°)	10832.1	29.3			
FH	(60°-80°)	5478.4	14.8			G3/7500
FVH	(80°-90°)	105.9	0.3			G2/225
BL	(0°-30°)	2081.7	5.6	B3/2500		
BM	(30°-60°)	10832.1	29.3	B5		
BH	(60°-80°)	5478.4	14.8	B5		G3/7500
BVH	(80°-90°)	105.9	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°	4186.1	4186.1	4186.1	4186.1	4186.1	4186.1	4186.1	4186.1	4186.1	4186.1	4186.1
2.5°	4189.6	4193.1	4196.6	4193.1	4196.6	4191.3	4187.9	4193.1	4187.9	4182.6	4186.1
5°	4226.0	4227.8	4227.8	4222.5	4227.8	4224.3	4219.1	4226.0	4220.8	4215.6	4219.1
7.5°	4286.6	4293.5	4288.3	4283.2	4286.6	4283.2	4279.7	4281.5	4279.7	4274.5	4276.2
10°	4368.1	4373.2	4369.7	4368.1	4371.5	4369.7	4366.4	4364.6	4366.4	4361.1	4361.1
12.5°	4466.8	4465.1	4463.3	4465.1	4470.3	4470.3	4468.6	4470.3	4473.8	4475.5	4472.0
15°	4563.8	4567.3	4567.3	4567.3	4577.7	4586.4	4591.5	4595.0	4601.9	4603.7	4596.7
17.5°	4685.1	4685.1	4683.4	4685.1	4695.5	4709.4	4714.6	4721.5	4728.5	4733.6	4725.0
20°	4820.2	4823.7	4823.7	4827.2	4841.1	4856.7	4856.7	4860.1	4856.7	4860.1	4854.9
22.5°	4984.8	4995.3	4995.3	4997.0	5010.8	5030.0	5024.7	5030.0	5021.3	5028.2	5021.3
25°	5199.8	5215.3	5211.8	5211.8	5222.3	5234.3	5236.1	5246.5	5244.8	5253.5	5248.2
27.5°	5442.3	5466.5	5473.5	5471.8	5478.7	5490.8	5494.3	5506.4	5499.5	5506.4	5503.0
30°	5733.4	5743.8	5757.7	5762.9	5771.5	5783.7	5783.7	5785.4	5776.7	5787.1	5792.3
32.5°	6034.9	6053.9	6067.8	6098.9	6114.6	6123.3	6121.5	6125.0	6116.3	6130.1	6140.6
35°	6433.4	6447.2	6469.8	6494.0	6514.9	6513.1	6507.9	6509.6	6509.6	6521.7	6532.2
37.5°	6913.3	6916.8	6946.2	6980.9	6991.4	6980.9	6949.7	6942.8	6927.2	6942.8	6960.2
40°	7421.0	7433.2	7492.1	7514.6	7519.8	7500.7	7455.7	7429.7	7395.0	7414.0	7438.4
42.5°	7952.9	7977.2	8030.9	8070.8	8088.1	8076.0	8013.6	7973.7	7928.7	7939.1	7963.4
45°	8542.0	8571.5	8647.7	8685.9	8718.8	8699.7	8639.0	8578.5	8507.4	8512.6	8550.7
47.5°	9200.4	9229.9	9328.7	9392.7	9410.1	9406.6	9339.0	9255.9	9158.9	9155.4	9188.3
50°	9938.6	9968.0	10091.0	10189.8	10240.0	10234.8	10155.1	10037.3	9919.6	9921.3	9962.8
52.5°	10659.4	10695.8	10823.9	10993.8	11092.6	11163.6	11115.1	11004.2	10860.4	10863.8	10901.9
55°	11335.1	11395.8	11543.0	11773.4	11957.2	12156.3	12213.5	12210.1	12123.5	12147.7	12185.8
57.5°	11662.6	11752.7	11979.7	12343.5	12717.7	13123.2	13466.3	13722.7	13831.8	13996.5	13958.4
60°	11042.2	11186.1	11520.5	12055.9	12795.8	13641.3	14547.5	15432.8	16188.3	16758.4	16430.8
62.5°	9041.0	9228.1	9633.6	10319.7	11439.0	12792.3	14526.7	16619.8	18899.9	20275.7	19293.3
65°	5657.1	5851.2	6263.6	6998.2	8308.1	9990.5	12343.5	15812.3	20073.0	22147.0	20147.4
67.5°	2205.7	2311.4	2534.9	3004.4	3988.6	5485.6	7847.3	11783.9	16879.6	18697.2	16566.0
70°	1105.4	1115.8	1157.5	1244.0	1455.5	1890.3	2876.2	5463.1	9680.4	11692.0	9332.2
72.5°	798.7	800.5	821.3	859.4	927.0	1024.0	1211.2	1672.0	3148.2	4811.7	2950.7
75°	611.6	618.6	630.6	651.5	687.8	736.4	803.9	963.3	1193.8	1384.4	1164.3
77.5°	471.3	485.2	493.8	512.9	535.4	568.4	587.4	648.0	753.7	793.6	781.4
80°	358.6	370.8	389.8	405.4	421.0	436.6	429.7	457.5	512.9	545.7	528.5
82.5°	228.7	242.5	298.0	311.9	318.9	329.2	317.1	318.9	343.1	363.9	343.1
85°	147.3	155.9	188.8	206.2	208.0	214.8	209.6	197.5	197.5	180.2	202.7
87.5°	67.6	69.4	84.9	100.5	103.9	93.6	91.9	88.4	71.0	67.6	72.7
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°	4186.1	4186.1	4186.1	4186.1	4186.1	4186.1	4186.1	4186.1
2.5°	4184.4	4187.9	4189.6	4194.8	4196.6	4196.6	4198.3	4201.7
5°	4217.3	4222.5	4224.3	4231.1	4232.9	4231.1	4234.6	4236.3
7.5°	4276.2	4284.8	4288.3	4295.3	4290.1	4297.0	4298.7	4298.7
10°	4362.9	4371.5	4373.2	4380.2	4376.7	4380.2	4380.2	4376.7
12.5°	4477.3	4479.0	4473.8	4479.0	4472.0	4475.5	4470.3	4466.8
15°	4603.7	4598.5	4586.4	4586.4	4576.0	4577.7	4576.0	4574.2
17.5°	4726.7	4716.3	4707.6	4704.1	4695.5	4693.8	4688.6	4688.6
20°	4861.9	4856.7	4851.4	4844.5	4835.9	4827.2	4825.5	4828.9
22.5°	5024.7	5023.0	5023.0	5019.5	5007.4	4998.8	4993.5	4993.5
25°	5243.0	5227.5	5227.5	5225.7	5220.5	5215.3	5205.0	5210.1
27.5°	5489.1	5480.5	5487.3	5485.6	5480.5	5480.5	5473.5	5473.5
30°	5792.3	5788.9	5799.2	5790.6	5773.2	5771.5	5764.5	5755.9
32.5°	6142.3	6138.8	6154.5	6144.0	6116.3	6100.7	6086.9	6079.9
35°	6532.2	6533.9	6552.9	6546.0	6514.9	6504.4	6480.2	6476.7
37.5°	6958.4	6986.1	7019.1	7025.9	7000.0	6993.0	6967.0	6953.2
40°	7459.2	7495.5	7545.8	7557.9	7530.1	7524.9	7488.6	7469.5
42.5°	7992.8	8055.1	8117.5	8128.0	8100.2	8072.5	8037.8	8024.0
45°	8588.8	8663.4	8744.8	8765.6	8723.9	8691.1	8646.0	8646.0
47.5°	9257.6	9351.2	9443.1	9500.2	9462.1	9427.4	9373.7	9339.0
50°	10047.7	10175.9	10295.5	10354.4	10293.7	10228.0	10134.4	10103.2
52.5°	11038.9	11177.5	11281.4	11250.2	11156.6	11064.8	10962.6	10921.0
55°	12303.6	12350.5	12350.5	12232.7	12045.5	11891.3	11730.2	11676.5
57.5°	13885.6	13705.4	13428.2	13076.5	12634.6	12249.9	11990.0	11867.0
60°	15744.7	14878.4	13899.4	12937.8	12147.7	11496.2	11109.9	10933.1
62.5°	16983.6	14717.3	12755.9	11212.1	10075.5	9290.5	8756.9	8549.0
65°	15872.9	12274.2	9647.4	7800.5	6561.6	5762.9	5234.3	5040.3
67.5°	11626.1	7691.3	5137.4	3681.9	2697.7	2152.0	1935.4	1845.3
70°	5218.8	2708.2	1659.9	1296.1	1117.6	1025.7	985.9	972.0
72.5°	1573.3	1138.3	959.9	866.3	795.3	750.2	717.3	713.8
75°	949.5	790.1	701.7	646.3	601.2	564.9	547.5	542.4
77.5°	663.6	580.4	538.9	499.0	464.3	436.6	421.0	408.9
80°	466.1	426.3	407.1	384.6	362.1	336.1	313.6	303.2
82.5°	311.9	303.2	303.2	289.4	270.3	246.0	201.0	190.6
85°	201.0	199.3	202.7	197.5	183.6	157.6	129.9	123.1
87.5°	93.6	95.3	105.7	103.9	100.5	83.2	65.9	62.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)