

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: P268892

Luminaire Tested: **GAN-AF-10-LED-U-5WQ-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268892
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
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-5WQ-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59146 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 640
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

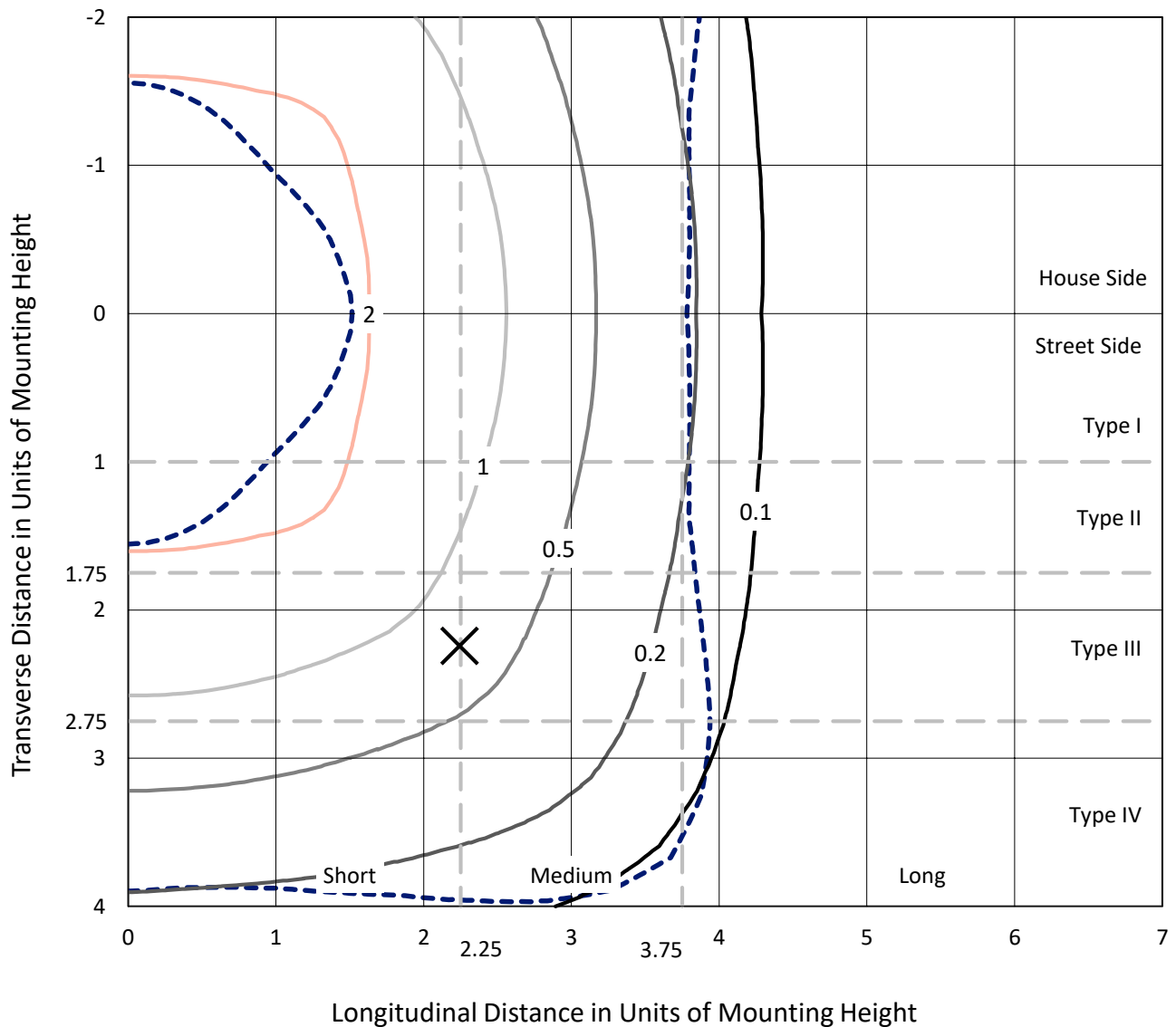


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

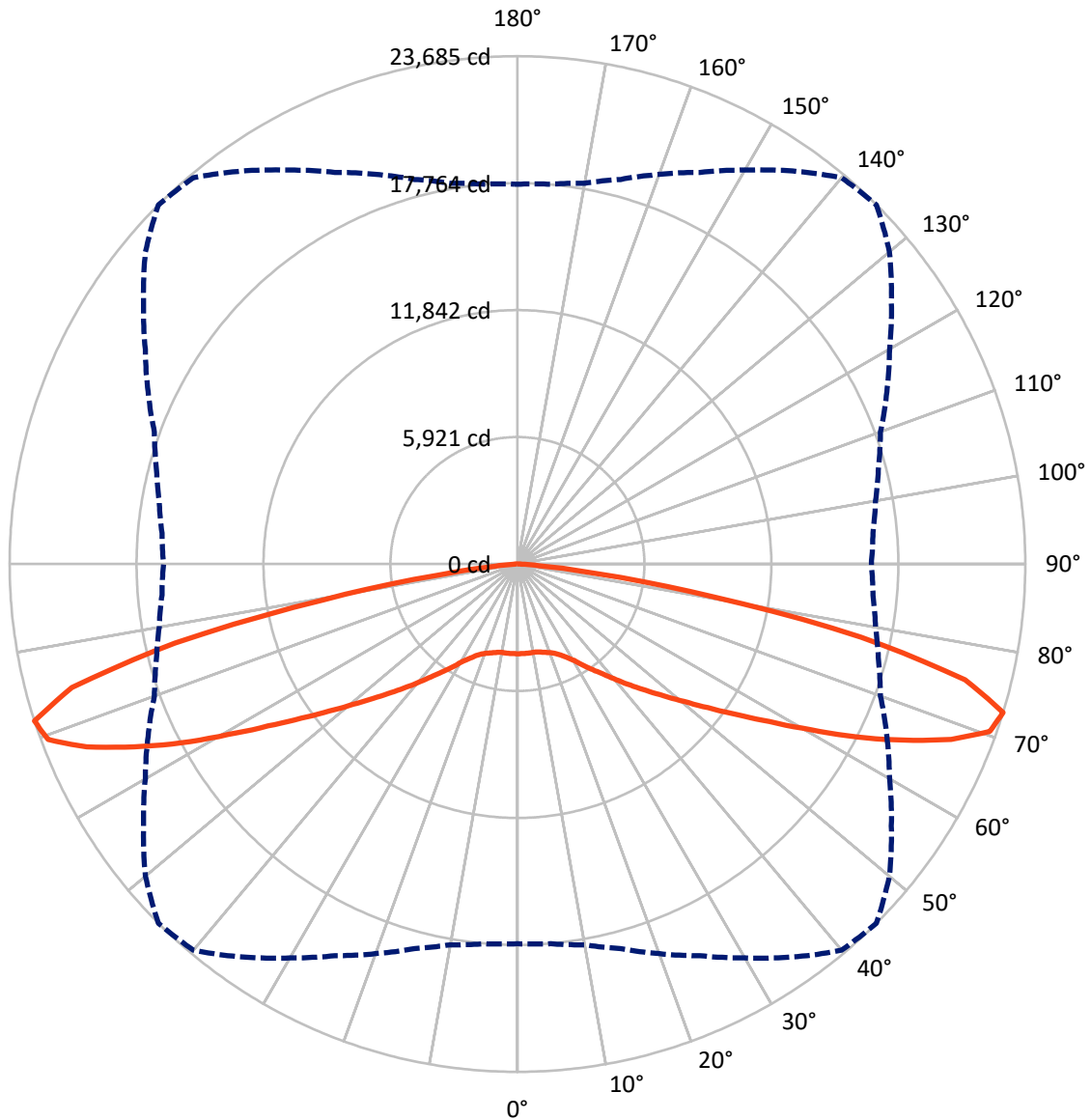


Based on 30 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	29573.0	0.0	29573.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	29573.0	0.0	29573.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	59146.0	0.0	59146.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.0	0.7
10°-20°	1214.7	2.1
20°-30°	2219.7	3.8
30°-40°	3827.2	6.5
40°-50°	6542.6	11.1
50°-60°	10604.7	17.9
60°-70°	17592.8	29.7
70°-80°	15495.1	26.2
80°-90°	1249.3	2.1
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°	59146.0	100.0
0°-180°	59146.0	100.0



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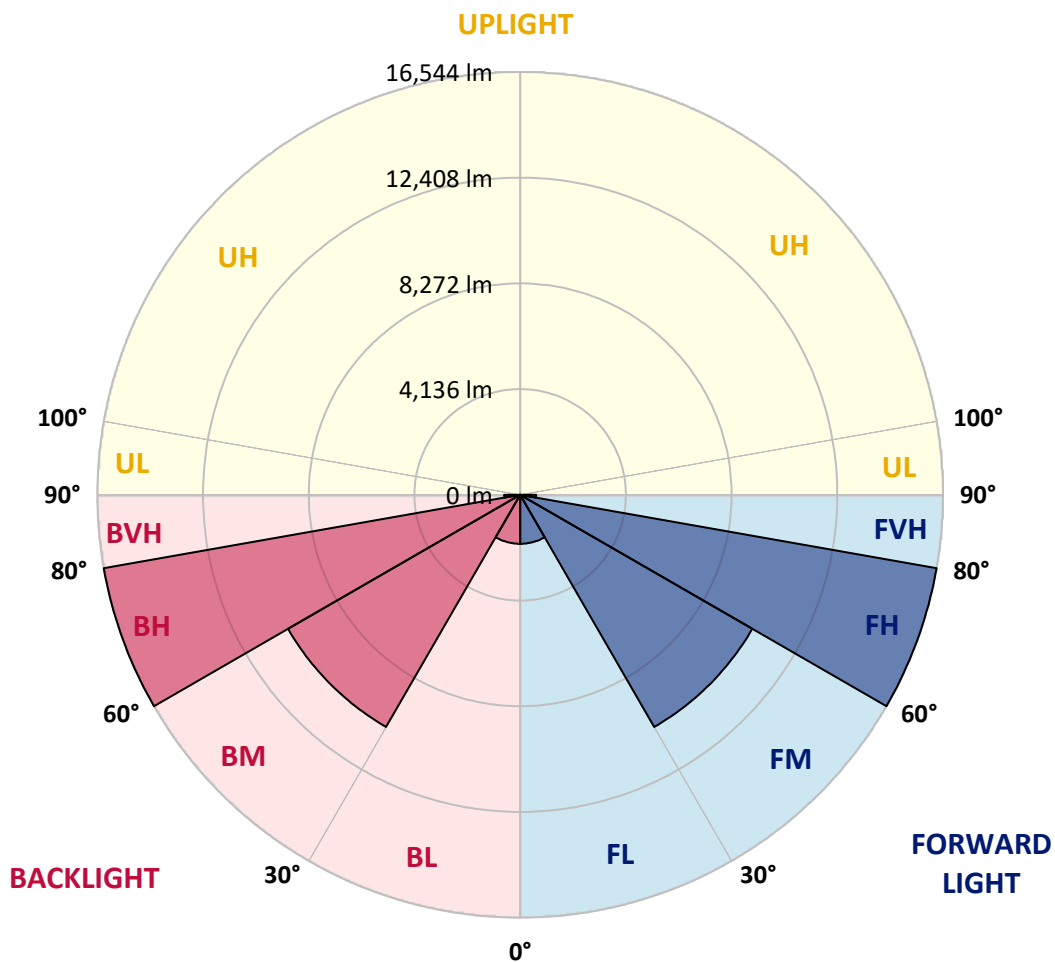
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1917.2	3.2			
FM	(30°-60°)	10487.2	17.7			
FH	(60°-80°)	16543.9	28.0			G5
FVH	(80°-90°)	624.7	1.1			G4/750
BL	(0°-30°)	1917.2	3.2	B3/2500		
BM	(30°-60°)	10487.2	17.7	B5		
BH	(60°-80°)	16543.9	28.0	B5		G5
BVH	(80°-90°)	624.7	1.1			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4188.4	4188.4	4188.4	4188.4	4188.4	4188.4	4188.4	4188.4	4188.4	4188.4	4188.4
2.5°	4188.4	4191.1	4193.8	4191.1	4191.1	4188.4	4185.7	4188.4	4185.7	4180.4	4183.0
5°	4202.0	4207.4	4207.4	4202.0	4204.7	4202.0	4196.6	4199.2	4193.8	4185.7	4185.7
7.5°	4218.4	4221.0	4221.0	4215.6	4218.4	4213.0	4207.4	4204.7	4199.2	4188.4	4180.4
10°	4242.8	4245.4	4242.8	4237.2	4237.2	4229.1	4215.6	4210.1	4199.2	4183.0	4175.0
12.5°	4269.9	4272.6	4269.9	4264.4	4261.6	4248.2	4237.2	4229.1	4221.0	4207.4	4193.8
15°	4307.8	4313.2	4307.8	4297.0	4288.9	4278.0	4272.6	4275.3	4278.0	4267.0	4253.6
17.5°	4378.3	4381.0	4372.9	4348.5	4337.6	4326.7	4326.7	4332.3	4340.4	4335.0	4321.3
20°	4508.6	4500.4	4481.5	4451.6	4438.0	4419.0	4416.3	4419.0	4419.0	4416.3	4405.5
22.5°	4671.4	4665.8	4641.5	4603.5	4584.5	4573.7	4557.5	4543.8	4541.1	4532.9	4522.1
25°	4866.7	4864.0	4834.0	4801.5	4788.0	4774.4	4760.8	4741.9	4725.5	4706.6	4695.7
27.5°	5116.1	5105.3	5061.9	5045.7	5026.6	5018.6	4999.5	4977.9	4964.4	4939.9	4926.3
30°	5390.2	5390.2	5354.9	5349.4	5349.4	5330.5	5308.9	5270.9	5246.5	5221.9	5213.9
32.5°	5664.3	5666.9	5631.7	5642.4	5650.6	5664.3	5669.7	5656.1	5639.7	5637.0	5620.8
35°	6060.2	6049.4	6014.2	6022.2	6019.5	6016.8	6016.8	6046.8	6052.2	6057.5	6025.0
37.5°	6551.2	6551.2	6515.9	6515.9	6499.6	6483.4	6461.7	6480.7	6510.6	6518.7	6497.0
40°	7112.8	7131.7	7088.3	7085.7	7091.1	7039.6	7015.1	7045.0	7063.9	7096.5	7072.0
42.5°	7774.7	7761.1	7717.7	7712.3	7682.5	7666.1	7644.4	7668.9	7698.7	7720.5	7728.6
45°	8409.5	8398.7	8349.7	8349.7	8319.9	8306.4	8317.2	8357.9	8371.5	8401.3	8431.1
47.5°	9036.1	9022.5	8990.0	9003.5	9006.2	9030.8	9066.0	9104.0	9142.0	9182.7	9196.2
50°	9676.4	9679.1	9643.8	9676.4	9717.0	9784.8	9879.7	9942.3	10020.9	10072.3	10088.7
52.5°	10259.5	10270.4	10308.4	10384.3	10465.8	10598.7	10761.4	10913.2	11043.6	11130.3	11124.9
55°	10959.4	10975.8	11067.9	11198.1	11331.1	11531.8	11773.2	12041.8	12258.8	12383.7	12305.0
57.5°	11854.7	11889.8	11993.0	12169.2	12367.3	12627.7	12958.7	13362.8	13699.3	13867.5	13739.9
60°	13083.5	13105.3	13230.0	13425.3	13663.9	13986.8	14429.0	14971.6	15446.3	15668.7	15522.3
62.5°	14703.0	14743.7	14844.0	15042.1	15286.3	15652.4	16192.3	16870.4	17461.9	17771.1	17440.1
65°	16637.1	16767.5	16851.5	17052.3	17280.1	17668.0	18232.3	18959.3	19594.1	19797.6	19415.0
67.5°	18552.3	18666.3	18812.8	19043.3	19273.9	19710.7	20234.2	20939.6	21636.8	21821.2	21227.0
70°	19390.6	19455.8	19683.7	19998.2	20440.5	20955.8	21560.8	22353.0	23215.5	23367.5	22613.4
72.5°	17711.4	17776.5	18031.5	18565.9	19336.3	20155.6	21210.9	22374.7	23513.9	23684.8	22645.9
75°	13395.4	13289.6	13666.8	14374.8	15413.7	16555.9	18031.5	19699.9	21346.6	21560.8	20321.1
77.5°	6922.9	6909.4	7194.2	8073.1	9312.8	10612.1	12237.2	14122.4	15733.9	16384.9	15375.7
80°	1950.5	1972.1	2107.9	2544.5	3268.8	4207.4	5477.0	7243.0	8561.3	9234.1	8669.9
82.5°	764.9	824.6	876.1	957.7	1052.5	1191.0	1589.7	2365.4	3173.9	3792.5	3106.1
85°	274.1	292.9	415.0	491.1	499.2	526.2	599.4	699.9	843.7	1006.5	827.3
87.5°	103.0	113.9	132.9	219.7	217.0	198.0	241.5	252.2	189.9	173.6	214.2
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°	4188.4	4188.4	4188.4	4188.4	4188.4	4188.4	4188.4	4188.4
2.5°	4177.6	4180.4	4180.4	4183.0	4185.7	4185.7	4191.1	4191.1
5°	4180.4	4180.4	4175.0	4177.6	4175.0	4175.0	4177.6	4177.6
7.5°	4175.0	4172.2	4166.8	4164.1	4158.7	4158.7	4158.7	4158.7
10°	4166.8	4164.1	4158.7	4155.9	4153.3	4153.3	4153.3	4153.3
12.5°	4188.4	4180.4	4175.0	4172.2	4172.2	4172.2	4172.2	4172.2
15°	4245.4	4226.4	4213.0	4213.0	4215.6	4221.0	4221.0	4226.4
17.5°	4315.9	4294.3	4280.8	4269.9	4275.3	4283.4	4288.9	4294.3
20°	4400.1	4389.2	4370.3	4359.4	4359.4	4370.3	4375.6	4378.3
22.5°	4516.7	4508.6	4500.4	4486.9	4486.9	4492.2	4503.2	4503.2
25°	4690.3	4684.9	4679.5	4668.6	4665.8	4665.8	4671.4	4676.8
27.5°	4907.4	4910.0	4904.7	4902.0	4893.7	4891.0	4899.1	4896.5
30°	5197.7	5211.2	5224.7	5213.9	5200.3	5192.2	5183.9	5173.2
32.5°	5591.0	5574.6	5563.8	5544.8	5520.4	5498.7	5482.4	5463.4
35°	5962.6	5935.5	5924.6	5940.9	5938.2	5924.6	5905.5	5889.4
37.5°	6418.3	6412.9	6418.3	6448.2	6442.7	6456.3	6418.3	6415.6
40°	6993.5	6998.9	7036.9	7072.0	7091.1	7110.1	7088.3	7066.6
42.5°	7660.7	7658.1	7671.6	7720.5	7753.0	7774.7	7728.6	7723.2
45°	8366.0	8347.1	8357.9	8398.7	8431.1	8455.6	8404.1	8404.1
47.5°	9142.0	9109.4	9074.0	9120.2	9139.1	9155.4	9114.8	9101.2
50°	10007.3	9939.4	9863.5	9882.4	9882.4	9877.0	9825.5	9822.7
52.5°	11000.1	10875.3	10737.0	10685.5	10655.6	10623.0	10533.5	10490.1
55°	12142.2	11955.1	11738.1	11605.1	11534.5	11445.0	11295.7	11255.1
57.5°	13476.8	13183.9	12809.6	12646.8	12489.5	12342.9	12177.5	12131.3
60°	15058.4	14627.0	14130.6	13829.4	13658.5	13517.5	13346.7	13338.6
62.5°	16821.7	16140.7	15579.2	15307.9	15183.2	15058.4	14895.6	14917.3
65°	18614.8	17903.9	17377.7	17158.0	17041.3	16938.4	16775.6	16799.9
67.5°	20383.5	19729.7	19151.9	18926.7	18796.6	18666.3	18519.8	18544.3
70°	21653.0	20841.9	20190.8	19691.7	19379.8	19027.1	18799.2	18742.2
72.5°	21289.6	20038.9	19005.4	18015.2	17434.8	16962.8	16642.5	16504.3
75°	18424.9	16715.8	15386.6	14171.3	13487.7	12931.6	12527.5	12275.1
77.5°	13683.1	11762.3	10191.7	8792.0	7685.2	6941.9	6418.3	6079.2
80°	7489.9	5696.7	4164.1	2927.0	2151.3	1787.6	1578.9	1478.4
82.5°	2333.0	1505.6	1109.4	957.7	889.9	851.9	789.4	689.0
85°	743.3	651.0	605.0	577.8	550.8	480.1	330.9	301.1
87.5°	287.5	295.7	292.9	276.7	282.1	203.5	162.8	143.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)