

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: P192586

Luminaire Tested: **GAN-AF-08-LED-U-5NQ-7030-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192586
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-08-LED-U-5NQ-7030-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 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: 38451.6 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 334
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

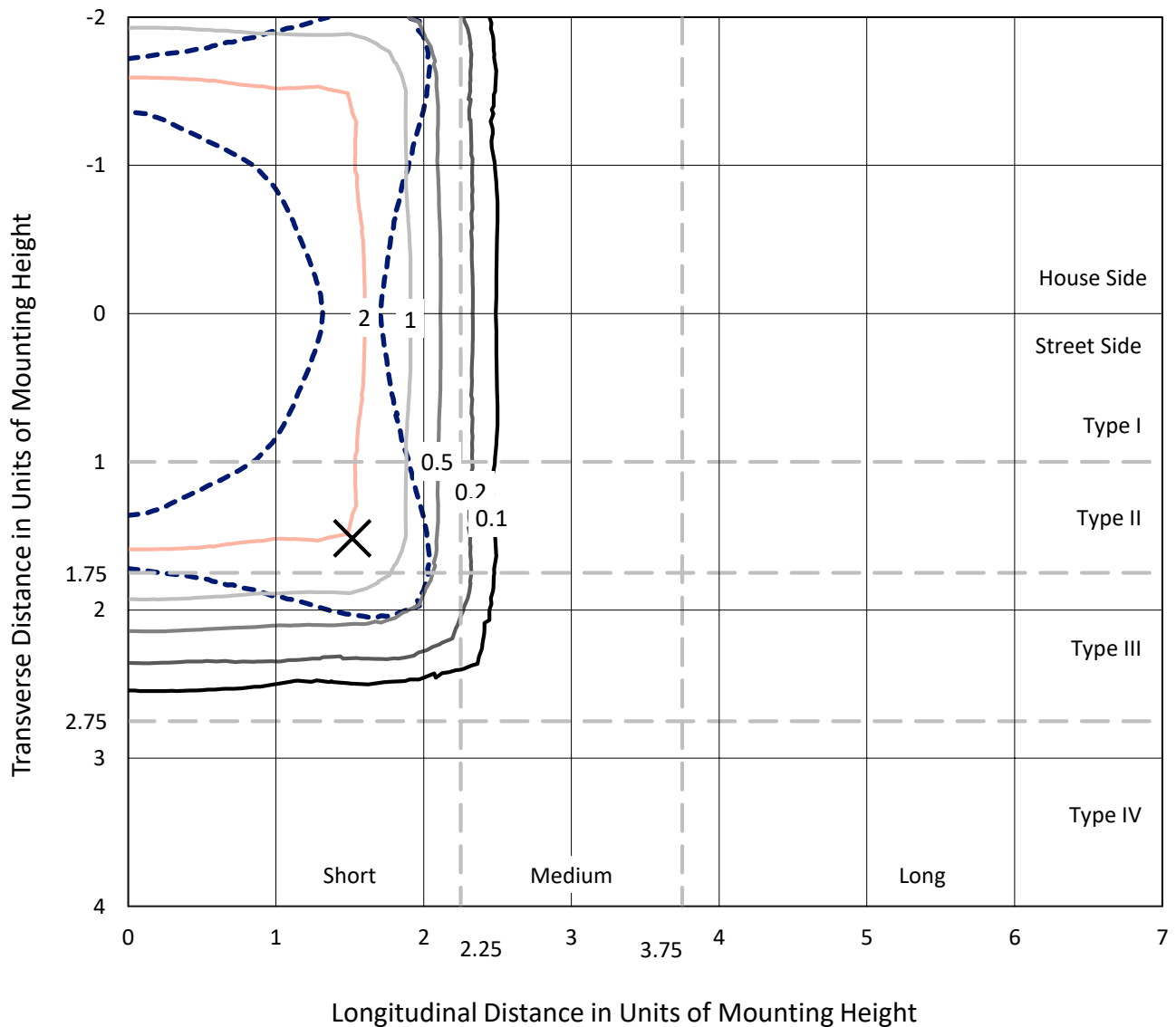


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

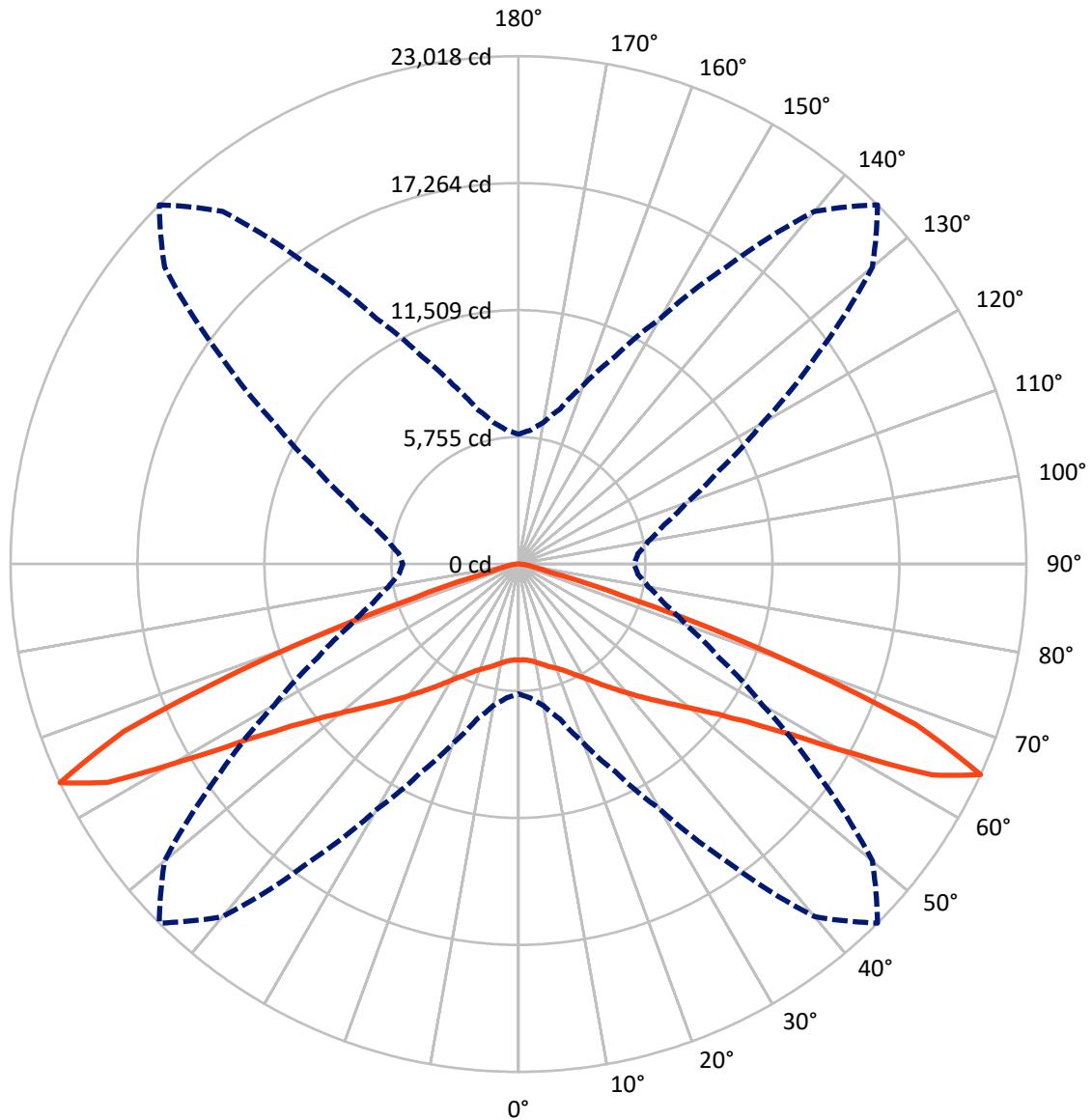


Based on 30 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - Full Cutoff

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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	19225.8	0.0	19225.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19225.8	0.0	19225.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	38451.6	0.0	38451.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.1	1.1
10°-20°	1360.1	3.5
20°-30°	2543.0	6.6
30°-40°	4301.0	11.2
40°-50°	7032.6	18.3
50°-60°	11182.9	29.1
60°-70°	10108.6	26.3
70°-80°	1279.3	3.3
80°-90°	220.1	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°	38451.6	100.0
0°-180°	38451.6	100.0



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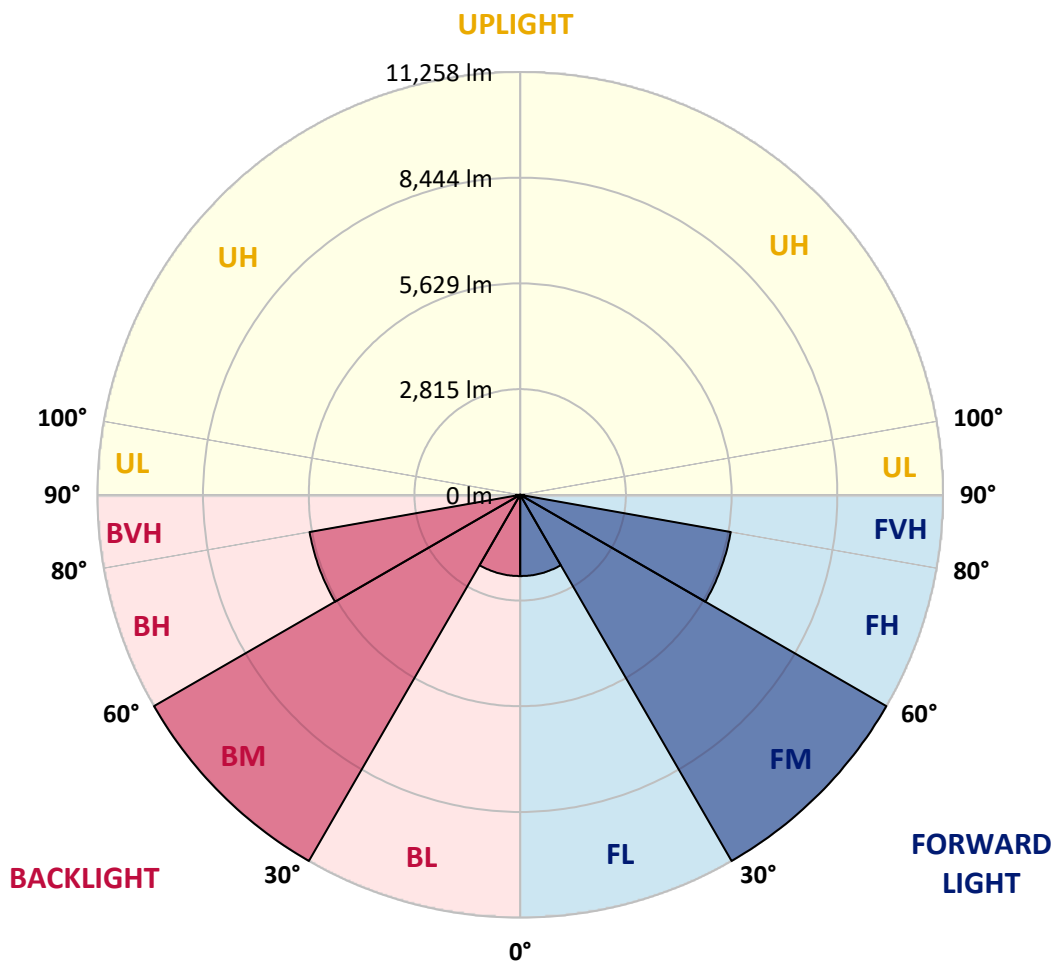
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2163.6	5.6			
FM (30°-60°)	11258.2	29.3			
FH (60°-80°)	5694.0	14.8			G3/7500
FVH (80°-90°)	110.0	0.3			G2/225
BL (0°-30°)	2163.6	5.6	B3/2500		
BM (30°-60°)	11258.2	29.3	B5		
BH (60°-80°)	5694.0	14.8	B5		G3/7500
BVH (80°-90°)	110.0	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°	4350.8	4350.8	4350.8	4350.8	4350.8	4350.8	4350.8	4350.8	4350.8	4350.8	4350.8
2.5°	4354.4	4358.1	4361.6	4358.1	4361.6	4356.2	4352.7	4358.1	4352.7	4347.2	4350.8
5°	4392.2	4394.1	4394.1	4388.6	4394.1	4390.5	4385.0	4392.2	4386.9	4381.4	4385.0
7.5°	4455.3	4462.4	4457.1	4451.7	4455.3	4451.7	4448.1	4449.9	4448.1	4442.7	4444.4
10°	4539.9	4545.3	4541.7	4539.9	4543.5	4541.7	4538.1	4536.3	4538.1	4532.7	4532.7
12.5°	4642.5	4640.8	4638.9	4640.8	4646.1	4646.1	4644.4	4646.1	4649.7	4651.6	4648.0
15°	4743.4	4747.0	4747.0	4747.0	4757.8	4766.8	4772.2	4775.8	4783.1	4784.8	4777.6
17.5°	4869.4	4869.4	4867.6	4869.4	4880.3	4894.7	4900.1	4907.3	4914.5	4919.8	4910.8
20°	5010.0	5013.6	5013.6	5017.0	5031.5	5047.8	5047.8	5051.4	5047.8	5051.4	5045.9
22.5°	5181.0	5191.8	5191.8	5193.6	5208.1	5227.8	5222.4	5227.8	5218.9	5226.0	5218.9
25°	5404.3	5420.6	5417.0	5417.0	5427.7	5440.3	5442.1	5452.9	5451.2	5460.1	5454.8
27.5°	5656.5	5681.6	5688.8	5687.1	5694.3	5706.8	5710.4	5723.1	5715.9	5723.1	5719.5
30°	5959.0	5969.8	5984.1	5989.6	5998.6	6011.2	6011.2	6013.0	6004.1	6014.8	6020.1
32.5°	6272.3	6292.1	6306.6	6338.9	6355.2	6364.2	6362.3	6366.0	6356.9	6371.4	6382.2
35°	6686.5	6700.9	6724.4	6749.5	6771.2	6769.3	6763.9	6765.8	6765.8	6778.3	6789.2
37.5°	7185.3	7188.9	7219.6	7255.6	7266.4	7255.6	7223.1	7215.9	7199.7	7215.9	7233.9
40°	7712.9	7725.6	7786.8	7810.2	7815.7	7795.8	7749.0	7722.0	7686.0	7705.7	7730.9
42.5°	8265.8	8291.0	8346.9	8388.3	8406.3	8393.8	8328.9	8287.5	8240.7	8251.5	8276.6
45°	8878.1	8908.8	8988.0	9027.5	9061.9	9042.0	8978.9	8916.0	8842.2	8847.5	8887.1
47.5°	9562.5	9593.1	9695.6	9762.4	9780.4	9776.7	9706.5	9620.1	9519.2	9515.6	9549.8
50°	10329.6	10360.2	10488.2	10590.7	10643.0	10637.6	10554.7	10432.3	10309.8	10311.6	10354.8
52.5°	11078.8	11116.6	11249.8	11426.4	11528.9	11602.8	11552.4	11437.1	11287.7	11291.3	11330.8
55°	11781.1	11844.1	11997.2	12236.7	12427.5	12634.6	12694.1	12690.5	12600.5	12625.7	12665.4
57.5°	12121.4	12215.0	12450.9	12829.1	13218.1	13639.5	13996.1	14262.6	14376.2	14547.1	14507.6
60°	11476.7	11626.2	11973.7	12530.2	13299.1	14178.0	15119.9	16040.1	16825.2	17417.7	17077.3
62.5°	9396.8	9591.3	10012.6	10725.8	11889.1	13295.5	15098.2	17273.7	19643.5	21073.4	20052.4
65°	5879.7	6081.4	6510.0	7273.6	8635.0	10383.7	12829.1	16434.4	20862.7	23018.3	20940.1
67.5°	2292.5	2402.3	2634.7	3122.6	4145.6	5701.4	8155.9	12247.5	17543.8	19432.9	17217.8
70°	1149.0	1159.8	1203.0	1293.0	1512.7	1964.7	2989.5	5677.9	10061.2	12152.1	9699.3
72.5°	830.2	832.0	853.7	893.2	963.4	1064.3	1258.7	1737.8	3272.1	5000.9	3066.8
75°	635.7	642.9	655.5	677.1	714.9	765.4	835.7	1001.3	1240.7	1438.8	1210.1
77.5°	489.8	504.2	513.2	533.0	556.4	590.6	610.4	673.5	783.4	824.8	812.2
80°	372.8	385.3	405.3	421.4	437.6	453.9	446.7	475.4	533.0	567.3	549.2
82.5°	237.7	252.2	309.8	324.2	331.4	342.2	329.5	331.4	356.5	378.1	356.5
85°	153.1	162.0	196.3	214.2	216.2	223.3	217.9	205.3	205.3	187.3	210.7
87.5°	70.3	72.0	88.3	104.5	108.0	97.2	95.5	91.9	73.9	70.3	75.6
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°	4350.8	4350.8	4350.8	4350.8	4350.8	4350.8	4350.8	4350.8
2.5°	4349.1	4352.7	4354.4	4359.8	4361.6	4361.6	4363.4	4367.0
5°	4383.3	4388.6	4390.5	4397.6	4399.5	4397.6	4401.3	4403.0
7.5°	4444.4	4453.5	4457.1	4464.3	4458.9	4466.1	4467.8	4467.8
10°	4534.5	4543.5	4545.3	4552.5	4548.9	4552.5	4552.5	4548.9
12.5°	4653.4	4655.2	4649.7	4655.2	4648.0	4651.6	4646.1	4642.5
15°	4784.8	4779.4	4766.8	4766.8	4756.0	4757.8	4756.0	4754.2
17.5°	4912.8	4901.9	4892.8	4889.3	4880.3	4878.4	4873.1	4873.1
20°	5053.1	5047.8	5042.4	5035.1	5026.2	5017.0	5015.3	5019.0
22.5°	5222.4	5220.6	5220.6	5217.0	5204.4	5195.4	5190.1	5190.1
25°	5449.3	5433.1	5433.1	5431.3	5426.0	5420.6	5409.8	5415.1
27.5°	5705.1	5696.0	5703.3	5701.4	5696.0	5696.0	5688.8	5688.8
30°	6020.1	6016.6	6027.4	6018.4	6000.4	5998.6	5991.3	5982.4
32.5°	6384.0	6380.4	6396.6	6385.7	6356.9	6340.8	6326.3	6319.1
35°	6789.2	6790.9	6810.7	6803.6	6771.2	6760.3	6735.2	6731.6
37.5°	7232.2	7261.0	7295.2	7302.4	7275.3	7268.2	7241.1	7226.7
40°	7752.6	7790.4	7842.6	7855.2	7826.5	7821.0	7783.2	7763.4
42.5°	8307.3	8372.1	8436.9	8447.7	8418.9	8390.1	8354.1	8339.6
45°	8926.7	9004.2	9088.8	9110.5	9067.2	9033.0	8986.1	8986.1
47.5°	9621.9	9719.1	9814.5	9874.0	9834.3	9798.4	9742.5	9706.5
50°	10443.0	10576.3	10700.6	10761.8	10698.7	10630.4	10533.1	10500.7
52.5°	11473.1	11617.2	11725.2	11692.8	11595.5	11500.2	11393.9	11350.6
55°	12787.7	12836.4	12836.4	12714.0	12519.4	12359.2	12191.7	12135.9
57.5°	14431.9	14244.5	13956.4	13590.9	13131.7	12731.9	12461.8	12333.9
60°	16364.2	15463.8	14446.3	13446.9	12625.7	11948.6	11546.9	11363.3
62.5°	17651.8	15296.3	13257.7	11653.3	10471.9	9656.2	9101.4	8885.3
65°	16497.5	12757.1	10027.0	8107.4	6819.8	5989.6	5440.3	5238.7
67.5°	12083.6	7994.0	5339.5	3826.8	2803.9	2236.6	2011.6	1917.9
70°	5424.0	2814.7	1725.2	1347.0	1161.5	1066.1	1024.7	1010.3
72.5°	1635.2	1183.2	997.6	900.4	826.5	779.8	745.5	742.0
75°	986.8	821.2	729.3	671.7	624.9	587.0	569.0	563.7
77.5°	689.8	603.3	560.1	518.7	482.6	453.9	437.6	425.0
80°	484.4	443.0	423.2	399.8	376.4	349.4	325.9	315.1
82.5°	324.2	315.1	315.1	300.8	280.9	255.6	208.9	198.1
85°	208.9	207.0	210.7	205.3	190.8	163.9	135.1	127.9
87.5°	97.2	99.1	109.8	108.0	104.5	86.5	68.4	64.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)