

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: P192646

Luminaire Tested: **GAN-AF-08-LED-U-5WQ-7030-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192646
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-08-LED-U-5WQ-7030-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 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: 53310.9 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 511
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

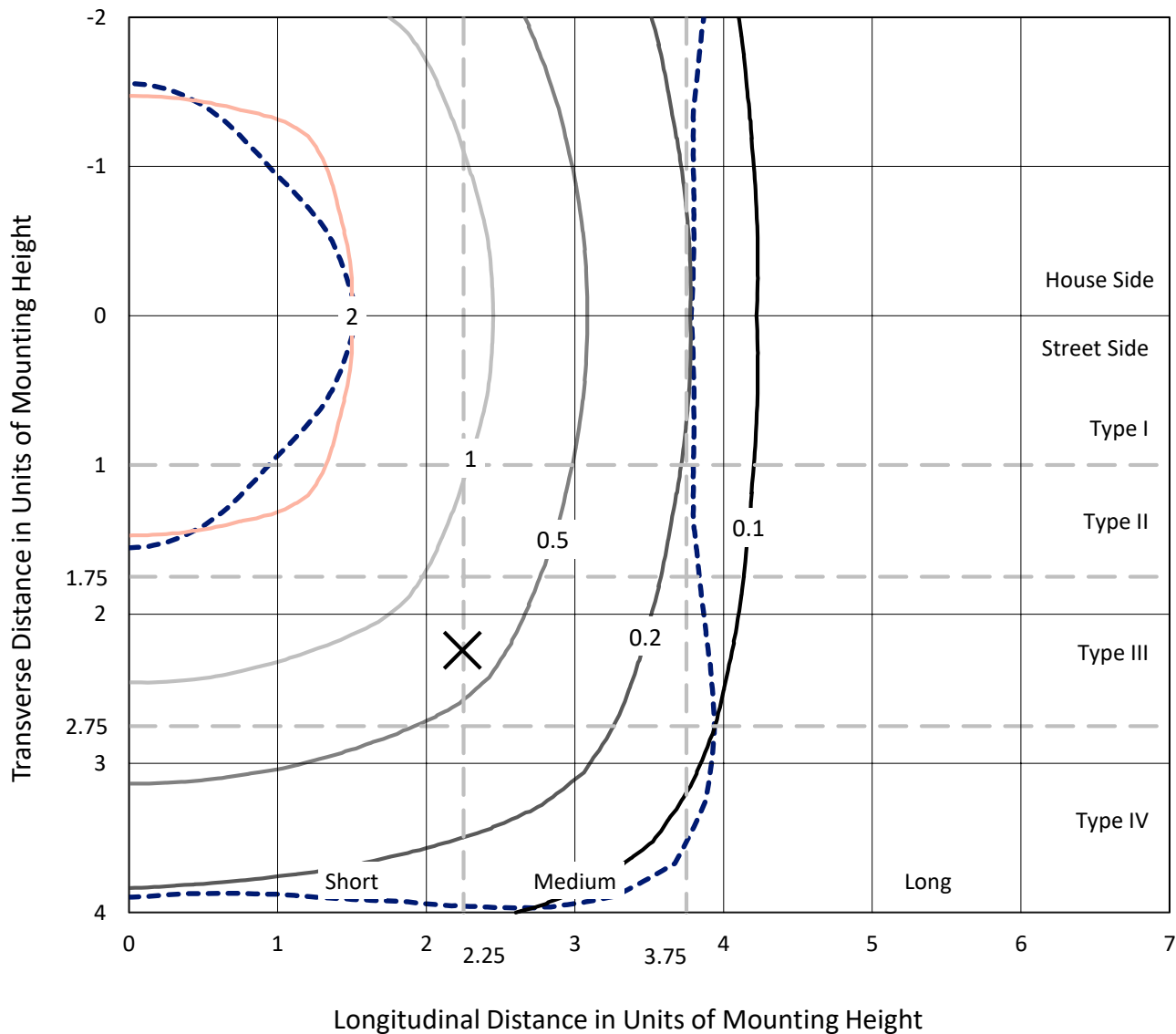


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

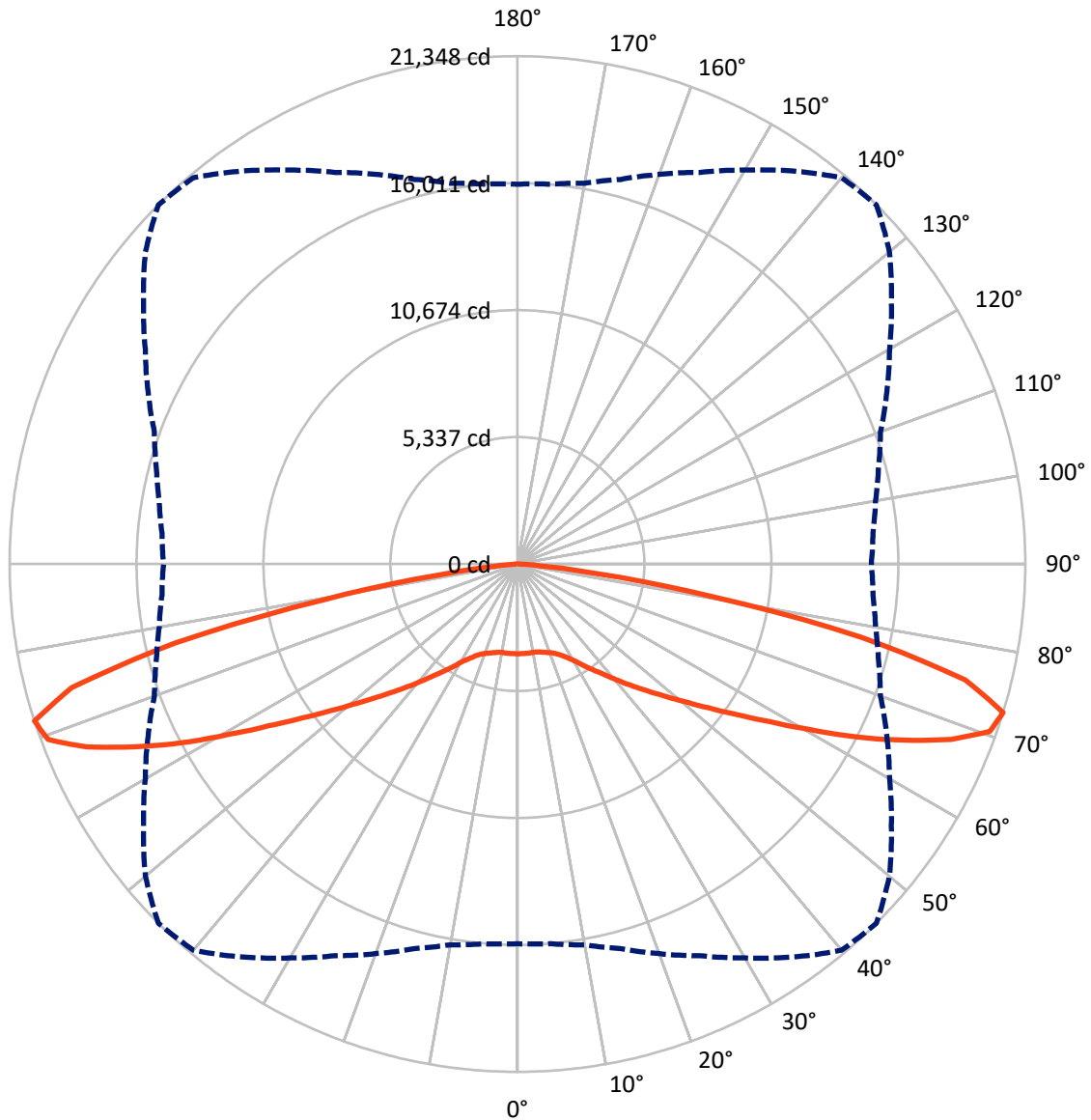


Based on 30 foot mounting height. Maximum calculated value = 4.2 fc
 Type V - Short - Semi-Cutoff

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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	26655.4	0.0	26655.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26655.4	0.0	26655.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	53310.9	0.0	53310.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.5	0.7
10°-20°	1094.9	2.1
20°-30°	2000.7	3.8
30°-40°	3449.6	6.5
40°-50°	5897.1	11.1
50°-60°	9558.4	17.9
60°-70°	15857.1	29.7
70°-80°	13966.4	26.2
80°-90°	1126.1	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°	53310.9	100.0
0°-180°	53310.9	100.0



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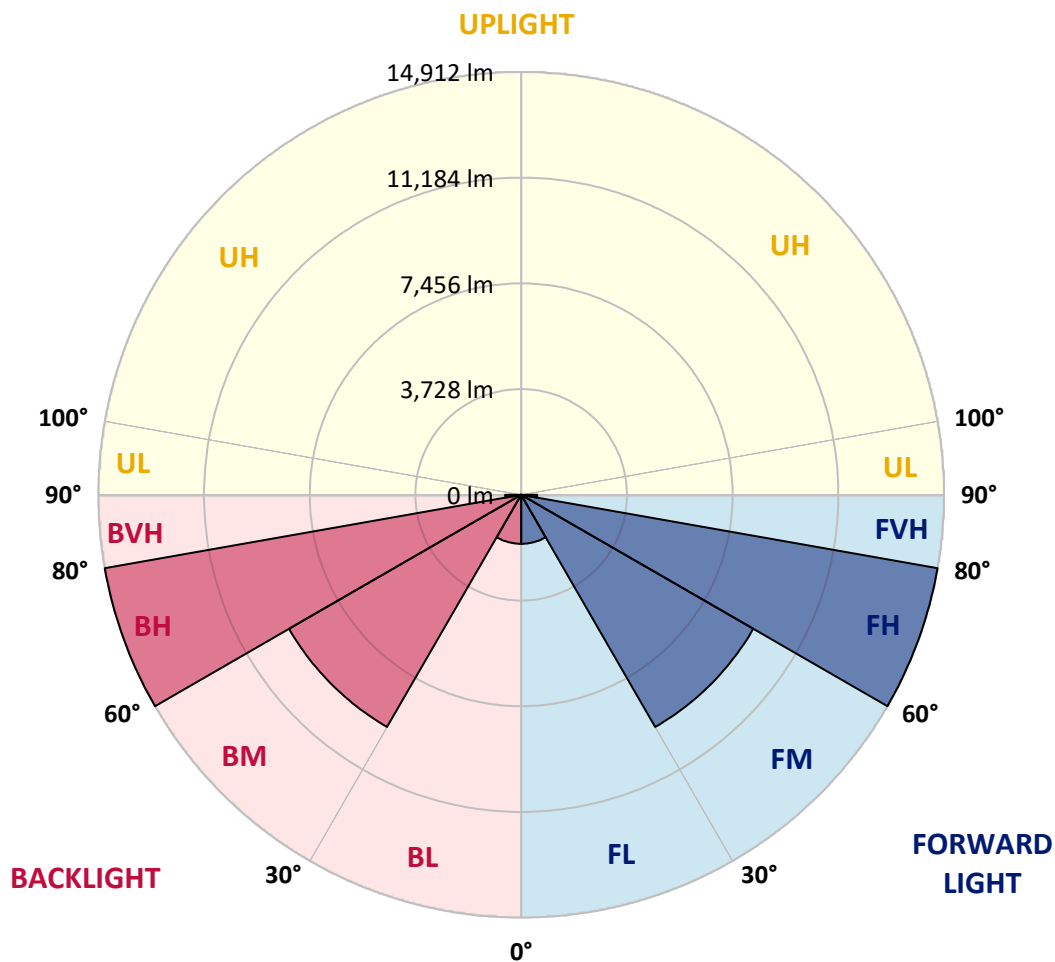
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1728.0	3.2			
FM (30°-60°)	9452.6	17.7			
FH (60°-80°)	14911.8	28.0			G5
FVH (80°-90°)	563.0	1.1			G4/750
BL (0°-30°)	1728.0	3.2	B3/2500		
BM (30°-60°)	9452.6	17.7	B5		
BH (60°-80°)	14911.8	28.0	B5		G5
BVH (80°-90°)	563.0	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°	3775.2	3775.2	3775.2	3775.2	3775.2	3775.2	3775.2	3775.2	3775.2	3775.2	3775.2
2.5°	3775.2	3777.6	3780.2	3777.6	3777.6	3775.2	3772.8	3775.2	3772.8	3768.0	3770.3
5°	3787.5	3792.4	3792.4	3787.5	3789.8	3787.5	3782.5	3785.1	3780.2	3772.8	3772.8
7.5°	3802.1	3804.6	3804.6	3799.7	3802.1	3797.2	3792.4	3789.8	3785.1	3775.2	3768.0
10°	3824.2	3826.6	3824.2	3819.2	3819.2	3811.9	3799.7	3794.8	3785.1	3770.3	3763.0
12.5°	3848.5	3851.1	3848.5	3843.7	3841.2	3829.0	3819.2	3811.9	3804.6	3792.4	3780.2
15°	3882.8	3887.7	3882.8	3873.0	3865.7	3856.0	3851.1	3853.5	3856.0	3846.2	3833.9
17.5°	3946.5	3948.8	3941.5	3919.4	3909.8	3899.9	3899.9	3904.8	3912.1	3907.2	3895.1
20°	4063.8	4056.5	4039.4	4012.4	4000.2	3983.0	3980.7	3983.0	3983.0	3980.7	3970.8
22.5°	4210.5	4205.6	4183.5	4149.3	4132.1	4122.5	4107.8	4095.6	4093.1	4085.7	4076.0
25°	4386.5	4384.0	4357.2	4327.9	4315.6	4303.4	4291.1	4274.0	4259.4	4242.2	4232.4
27.5°	4611.5	4601.7	4562.5	4547.9	4530.8	4523.5	4506.3	4486.7	4474.5	4452.6	4440.3
30°	4858.4	4858.4	4826.6	4821.7	4821.7	4804.6	4785.1	4750.8	4728.8	4706.8	4699.5
32.5°	5105.3	5107.9	5076.0	5085.8	5093.1	5105.3	5110.3	5098.0	5083.4	5080.9	5066.3
35°	5462.3	5452.6	5420.8	5428.1	5425.7	5423.2	5423.2	5450.2	5455.0	5459.9	5430.6
37.5°	5904.9	5904.9	5873.1	5873.1	5858.5	5843.8	5824.3	5841.3	5868.2	5875.5	5856.0
40°	6411.0	6428.2	6389.1	6386.6	6391.4	6345.0	6323.1	6349.9	6367.1	6396.4	6374.4
42.5°	7007.7	6995.5	6956.3	6951.4	6924.6	6909.9	6890.3	6912.3	6939.2	6958.7	6966.1
45°	7579.9	7570.0	7526.0	7526.0	7499.1	7486.9	7496.8	7533.3	7545.6	7572.4	7599.4
47.5°	8144.6	8132.3	8103.1	8115.3	8117.8	8139.7	8171.5	8205.8	8240.0	8276.7	8288.9
50°	8721.7	8724.2	8692.3	8721.7	8758.3	8819.5	8905.0	8961.3	9032.3	9078.7	9093.3
52.5°	9247.3	9257.2	9291.4	9359.8	9433.2	9553.0	9699.7	9836.6	9954.1	10032.3	10027.4
55°	9878.2	9892.9	9976.0	10093.4	10213.2	10394.2	10611.7	10853.9	11049.4	11161.9	11091.0
57.5°	10685.1	10716.9	10809.8	10968.7	11147.1	11382.0	11680.3	12044.5	12347.7	12499.4	12384.4
60°	11792.7	11812.2	11924.8	12100.8	12316.0	12607.0	13005.4	13494.5	13922.4	14123.0	13990.8
62.5°	13252.5	13289.1	13379.6	13558.1	13778.1	14108.2	14594.9	15206.0	15739.2	16017.9	15719.5
65°	14995.9	15113.2	15189.0	15369.9	15575.4	15925.0	16433.5	17088.8	17661.0	17844.3	17499.6
67.5°	16722.0	16824.8	16956.8	17164.6	17372.4	17766.1	18238.0	18873.8	19502.1	19668.5	19132.9
70°	17477.5	17536.2	17741.6	18025.3	18423.9	18888.4	19433.7	20147.6	20925.3	21062.1	20382.5
72.5°	15964.1	16022.8	16252.7	16734.2	17428.7	18167.1	19118.3	20167.2	21194.1	21348.1	20411.7
75°	12073.9	11978.5	12318.4	12956.6	13893.1	14922.4	16252.7	17756.4	19240.5	19433.7	18316.2
77.5°	6239.9	6227.7	6484.4	7276.6	8394.1	9565.2	11029.8	12729.2	14181.7	14768.5	13858.9
80°	1758.0	1777.5	1899.8	2293.5	2946.4	3792.4	4936.7	6528.5	7716.8	8323.2	7814.6
82.5°	689.5	743.3	789.7	863.1	948.7	1073.4	1432.8	2132.0	2860.7	3418.2	2799.7
85°	246.9	264.1	374.1	442.6	449.9	474.4	540.4	630.9	760.5	907.2	745.8
87.5°	92.9	102.7	119.8	198.1	195.6	178.5	217.7	227.4	171.2	156.5	193.2
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°	3775.2	3775.2	3775.2	3775.2	3775.2	3775.2	3775.2	3775.2
2.5°	3765.5	3768.0	3768.0	3770.3	3772.8	3772.8	3777.6	3777.6
5°	3768.0	3768.0	3763.0	3765.5	3763.0	3763.0	3765.5	3765.5
7.5°	3763.0	3760.6	3755.7	3753.3	3748.3	3748.3	3748.3	3748.3
10°	3755.7	3753.3	3748.3	3745.9	3743.4	3743.4	3743.4	3743.4
12.5°	3775.2	3768.0	3763.0	3760.6	3760.6	3760.6	3760.6	3760.6
15°	3826.6	3809.5	3797.2	3797.2	3799.7	3804.6	3804.6	3809.5
17.5°	3890.1	3870.6	3858.4	3848.5	3853.5	3860.7	3865.7	3870.6
20°	3966.0	3956.2	3939.1	3929.3	3929.3	3939.1	3943.9	3946.5
22.5°	4071.1	4063.8	4056.5	4044.2	4044.2	4049.0	4058.9	4058.9
25°	4227.6	4222.7	4217.9	4208.0	4205.6	4205.6	4210.5	4215.3
27.5°	4423.2	4425.6	4420.7	4418.3	4411.1	4408.5	4415.8	4413.4
30°	4684.8	4697.0	4709.3	4699.5	4687.2	4679.9	4672.6	4662.8
32.5°	5039.4	5024.8	5014.9	4997.7	4975.7	4956.2	4941.6	4924.5
35°	5374.4	5349.9	5340.1	5354.8	5352.3	5340.1	5323.0	5308.4
37.5°	5785.1	5780.3	5785.1	5812.0	5807.1	5819.3	5785.1	5782.6
40°	6303.5	6308.4	6342.6	6374.4	6391.4	6408.6	6389.1	6369.5
42.5°	6904.9	6902.6	6914.8	6958.7	6988.1	7007.7	6966.1	6961.2
45°	7540.7	7523.6	7533.3	7570.0	7599.4	7621.4	7575.0	7575.0
47.5°	8240.0	8210.7	8178.8	8220.4	8237.6	8252.3	8215.5	8203.3
50°	9020.0	8958.8	8890.4	8907.5	8907.5	8902.7	8856.1	8853.8
52.5°	9914.8	9802.4	9677.7	9631.2	9604.3	9575.1	9494.3	9455.2
55°	10944.3	10775.5	10580.0	10460.2	10396.6	10315.9	10181.5	10144.7
57.5°	12147.2	11883.1	11545.8	11399.0	11257.2	11125.3	10976.0	10934.4
60°	13572.7	13184.0	12736.6	12465.2	12311.2	12183.9	12029.9	12022.6
62.5°	15162.1	14548.3	14042.2	13797.7	13685.3	13572.7	13426.1	13445.7
65°	16778.3	16137.7	15663.3	15465.3	15360.1	15267.3	15120.5	15142.6
67.5°	18372.5	17783.2	17262.4	17059.5	16942.1	16824.8	16692.7	16714.7
70°	19516.8	18785.7	18198.9	17748.9	17467.9	17150.0	16944.6	16893.2
72.5°	19189.2	18061.9	17130.4	16237.9	15714.6	15289.2	15000.7	14875.9
75°	16607.1	15066.8	13868.6	12773.2	12157.1	11655.8	11291.5	11064.1
77.5°	12333.0	10602.0	9186.3	7924.6	6926.9	6257.1	5785.1	5479.5
80°	6750.9	5134.7	3753.3	2638.3	1939.0	1611.3	1423.1	1332.6
82.5°	2102.8	1357.0	1000.0	863.1	802.0	767.8	711.5	621.0
85°	670.0	586.8	545.2	520.8	496.4	432.7	298.3	271.4
87.5°	259.2	266.5	264.1	249.4	254.2	183.3	146.7	129.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)