

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: P267211

Luminaire Tested: **GAN-AF-09-LED-U-5WQ-7027-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P267211
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-09-LED-U-5WQ-7027-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 53420.1 lumens
Efficiency: N/A
Efficacy: 92.9 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): 575
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

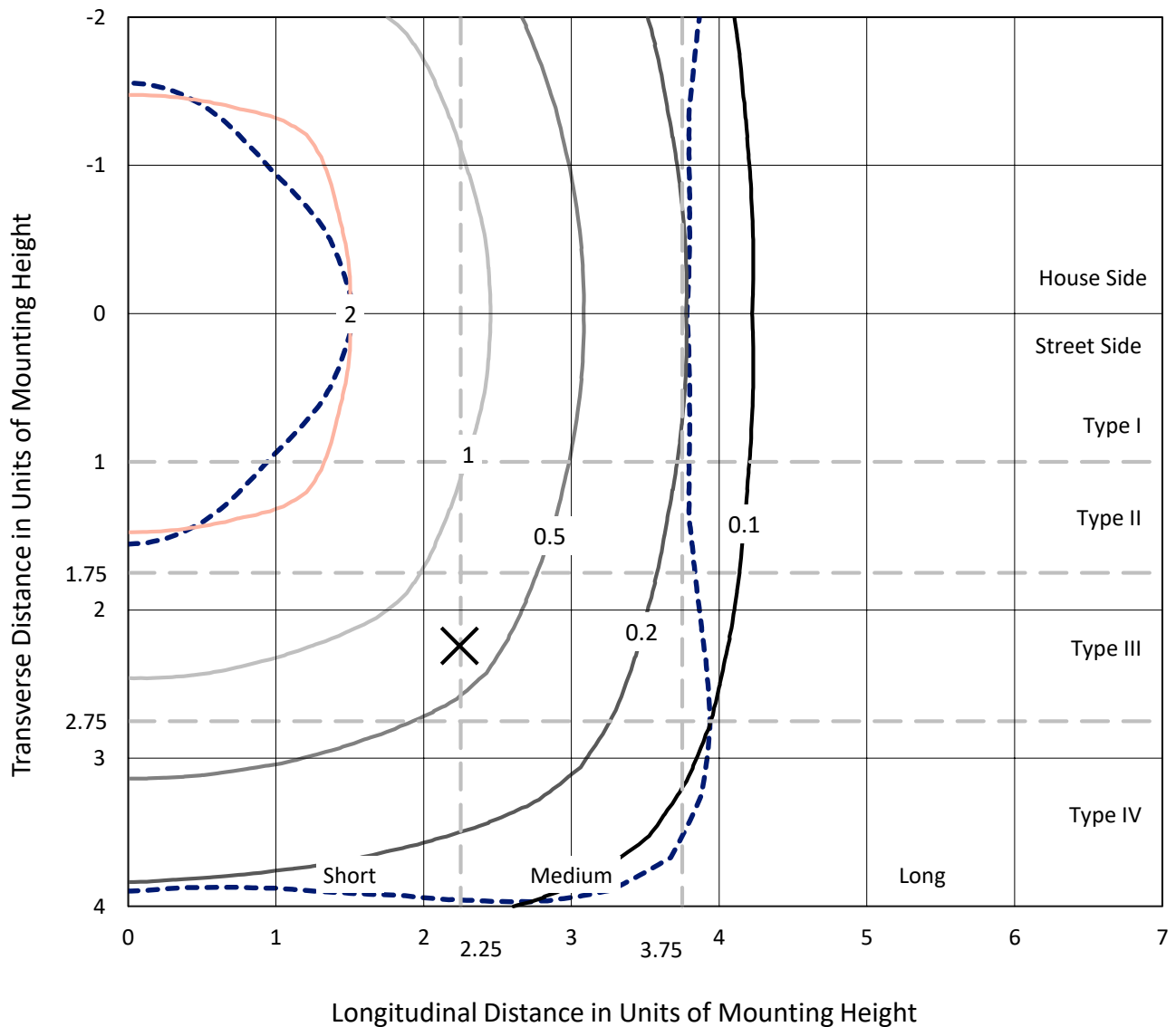


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

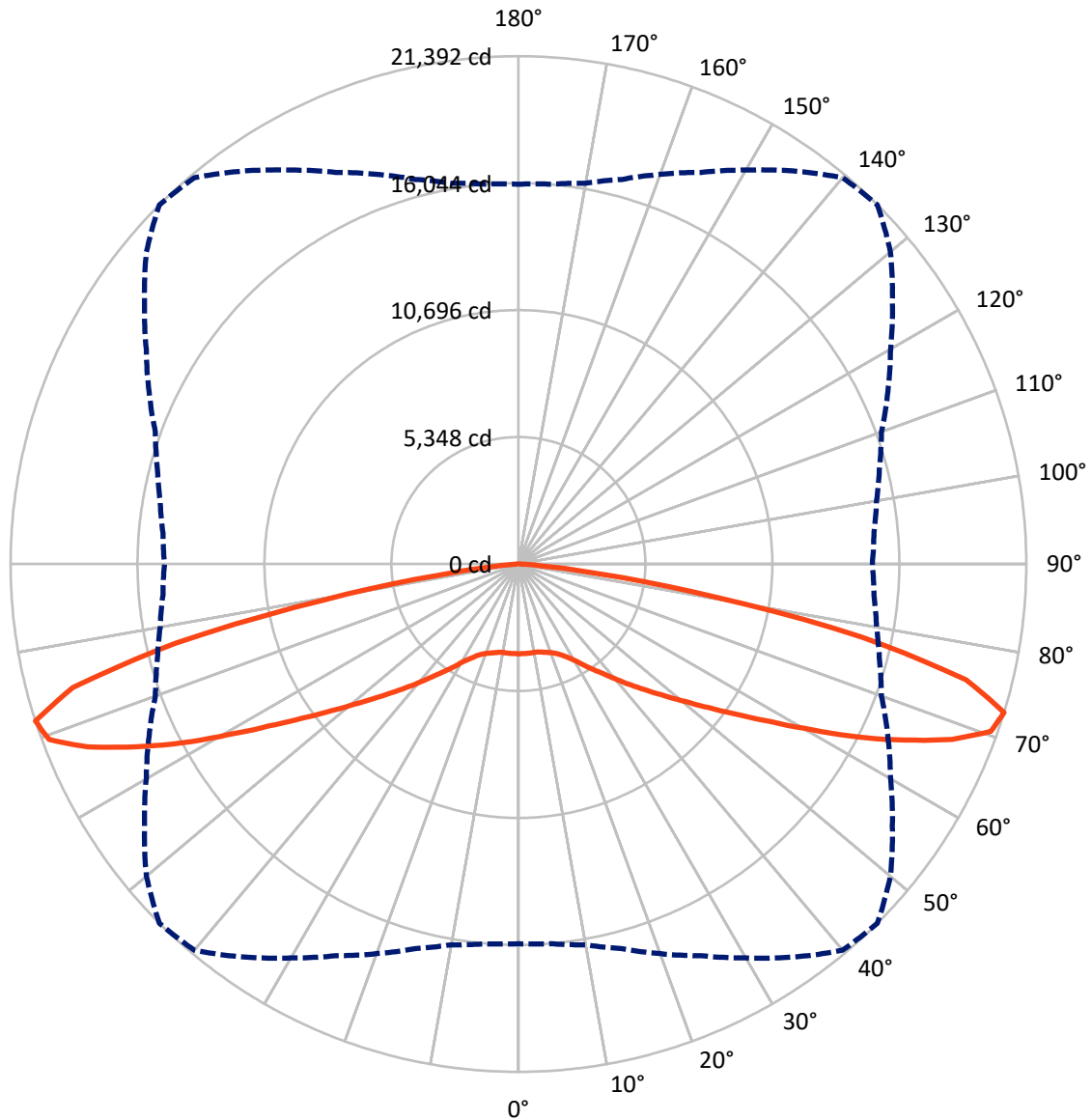


Based on 30 foot mounting height. Maximum calculated value = 4.2 fc
 Type V - Short - Semi-Cutoff

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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	26710.0	0.0	26710.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26710.0	0.0	26710.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	53420.1	0.0	53420.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.2	0.7
10°-20°	1097.1	2.1
20°-30°	2004.8	3.8
30°-40°	3456.7	6.5
40°-50°	5909.2	11.1
50°-60°	9578.0	17.9
60°-70°	15889.6	29.7
70°-80°	13995.0	26.2
80°-90°	1128.4	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°	53420.1	100.0
0°-180°	53420.1	100.0



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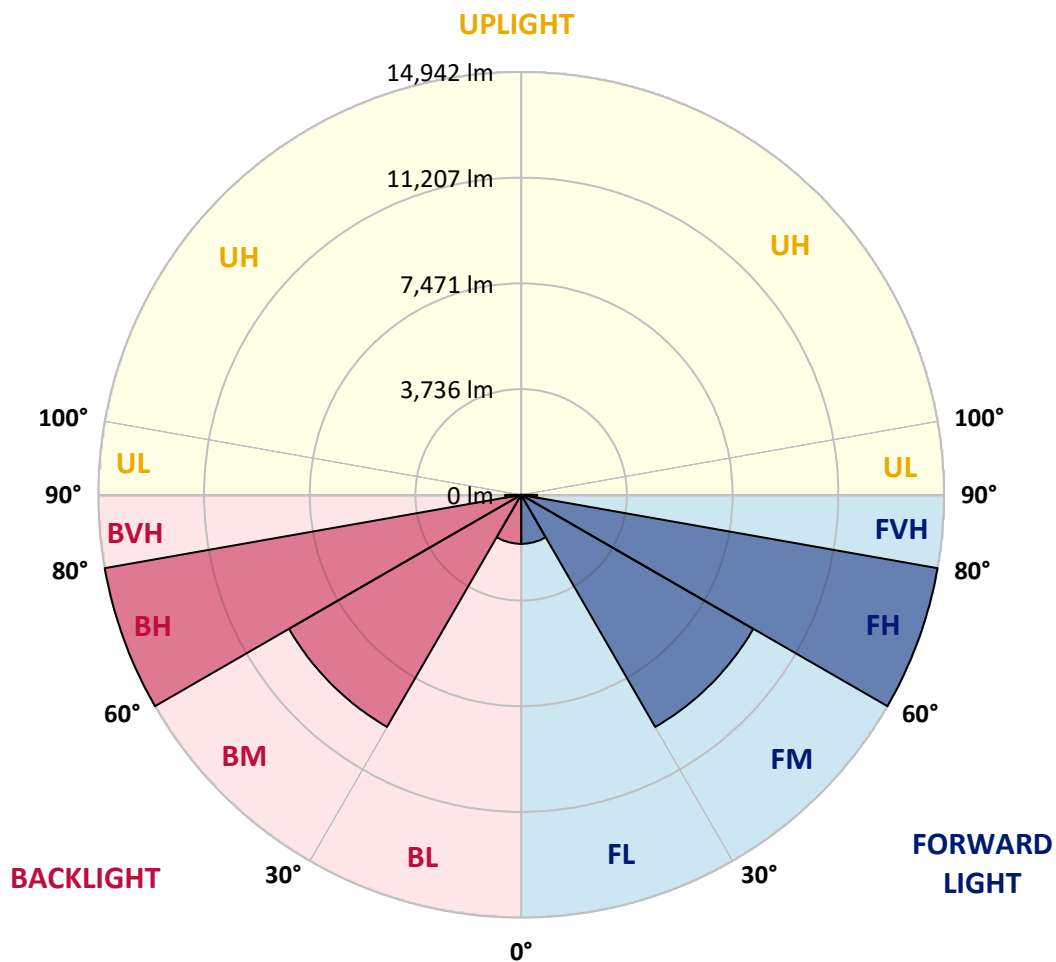
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1731.6	3.2			
FM (30°-60°)	9472.0	17.7			
FH (60°-80°)	14942.3	28.0			G5
FVH (80°-90°)	564.2	1.1			G4/750
BL (0°-30°)	1731.6	3.2	B3/2500		
BM (30°-60°)	9472.0	17.7	B5		
BH (60°-80°)	14942.3	28.0	B5		G5
BVH (80°-90°)	564.2	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°	3782.9	3782.9	3782.9	3782.9	3782.9	3782.9	3782.9	3782.9	3782.9	3782.9	3782.9
2.5°	3782.9	3785.4	3787.9	3785.4	3785.4	3782.9	3780.5	3782.9	3780.5	3775.7	3778.1
5°	3795.2	3800.1	3800.1	3795.2	3797.7	3795.2	3790.3	3792.7	3787.9	3780.5	3780.5
7.5°	3809.9	3812.3	3812.3	3807.5	3809.9	3805.0	3800.1	3797.7	3792.7	3782.9	3775.7
10°	3832.0	3834.4	3832.0	3827.0	3827.0	3819.8	3807.5	3802.5	3792.7	3778.1	3770.7
12.5°	3856.5	3858.8	3856.5	3851.6	3849.1	3836.9	3827.0	3819.8	3812.3	3800.1	3787.9
15°	3890.7	3895.7	3890.7	3880.9	3873.6	3863.8	3858.8	3861.4	3863.8	3854.0	3841.8
17.5°	3954.5	3956.9	3949.6	3927.5	3917.7	3907.9	3907.9	3912.8	3920.2	3915.4	3903.0
20°	4072.0	4064.7	4047.7	4020.6	4008.3	3991.2	3988.7	3991.2	3991.2	3988.7	3979.0
22.5°	4219.1	4214.2	4192.1	4157.9	4140.6	4130.9	4116.3	4103.9	4101.5	4094.1	4084.4
25°	4395.4	4393.0	4366.1	4336.7	4324.4	4312.3	4299.9	4282.8	4268.0	4250.9	4241.2
27.5°	4620.9	4611.1	4572.0	4557.2	4540.0	4532.7	4515.6	4495.9	4483.7	4461.6	4449.5
30°	4868.4	4868.4	4836.6	4831.7	4831.7	4814.5	4794.9	4760.6	4738.5	4716.6	4709.2
32.5°	5115.8	5118.4	5086.5	5096.3	5103.6	5115.8	5120.7	5108.5	5093.7	5091.4	5076.6
35°	5473.6	5463.8	5432.0	5439.2	5436.8	5434.3	5434.3	5461.2	5466.1	5471.0	5441.8
37.5°	5917.0	5917.0	5885.2	5885.2	5870.5	5855.8	5836.2	5853.4	5880.2	5887.6	5868.0
40°	6424.1	6441.3	6402.1	6399.6	6404.6	6358.1	6335.9	6363.0	6380.1	6409.4	6387.5
42.5°	7022.1	7009.7	6970.6	6965.6	6938.7	6924.0	6904.5	6926.6	6953.4	6973.1	6980.4
45°	7595.3	7585.6	7541.5	7541.5	7514.5	7502.3	7512.0	7548.7	7561.0	7588.1	7614.9
47.5°	8161.3	8149.1	8119.7	8131.9	8134.3	8156.4	8188.3	8222.5	8257.0	8293.6	8305.9
50°	8739.5	8741.9	8710.1	8739.5	8776.4	8837.5	8923.4	8979.6	9050.8	9097.2	9112.0
52.5°	9266.3	9276.1	9310.5	9379.1	9452.5	9572.6	9719.7	9856.8	9974.4	10052.8	10047.9
55°	9898.5	9913.2	9996.5	10114.0	10234.1	10415.4	10633.4	10876.0	11072.1	11184.7	11113.7
57.5°	10707.0	10738.9	10831.9	10991.2	11170.1	11405.3	11704.1	12069.3	12373.1	12525.0	12409.8
60°	11816.8	11836.4	11949.2	12125.6	12341.3	12632.8	13032.2	13522.1	13950.9	14151.9	14019.6
62.5°	13279.6	13316.4	13407.1	13585.8	13806.4	14137.2	14624.6	15237.2	15771.4	16050.6	15751.8
65°	15026.5	15144.2	15220.2	15401.4	15607.2	15957.6	16467.2	17123.9	17697.1	17880.9	17535.5
67.5°	16756.4	16859.2	16991.5	17199.8	17408.1	17802.5	18275.4	18912.3	19542.1	19708.8	19172.2
70°	17513.4	17572.1	17777.9	18062.2	18461.5	18927.1	19473.5	20188.9	20968.1	21105.3	20424.1
72.5°	15996.7	16055.5	16285.9	16768.5	17464.4	18204.3	19157.4	20208.5	21237.5	21391.9	20453.5
75°	12098.6	12003.2	12343.7	12983.2	13921.6	14953.0	16285.9	17792.6	19280.0	19473.5	18353.8
77.5°	6252.7	6240.4	6497.7	7291.5	8411.2	9584.8	11052.4	12755.3	14210.6	14798.7	13887.3
80°	1761.7	1781.2	1903.8	2298.3	2952.4	3800.1	4946.7	6541.7	7732.5	8340.1	7830.5
82.5°	690.9	744.9	791.3	864.9	950.6	1075.6	1435.9	2136.4	2866.6	3425.2	2805.3
85°	247.5	264.6	374.9	443.5	450.8	475.4	541.5	632.1	762.0	908.9	747.3
87.5°	93.2	102.9	120.1	198.4	196.0	178.9	218.1	227.9	171.4	156.8	193.6
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°	3782.9	3782.9	3782.9	3782.9	3782.9	3782.9	3782.9	3782.9
2.5°	3773.2	3775.7	3775.7	3778.1	3780.5	3780.5	3785.4	3785.4
5°	3775.7	3775.7	3770.7	3773.2	3770.7	3770.7	3773.2	3773.2
7.5°	3770.7	3768.3	3763.4	3760.9	3756.1	3756.1	3756.1	3756.1
10°	3763.4	3760.9	3756.1	3753.6	3751.1	3751.1	3751.1	3751.1
12.5°	3782.9	3775.7	3770.7	3768.3	3768.3	3768.3	3768.3	3768.3
15°	3834.4	3817.3	3805.0	3805.0	3807.5	3812.3	3812.3	3817.3
17.5°	3898.1	3878.5	3866.2	3856.5	3861.4	3868.7	3873.6	3878.5
20°	3974.1	3964.3	3947.2	3937.4	3937.4	3947.2	3952.1	3954.5
22.5°	4079.5	4072.0	4064.7	4052.4	4052.4	4057.4	4067.2	4067.2
25°	4236.2	4231.3	4226.4	4216.6	4214.2	4214.2	4219.1	4224.0
27.5°	4432.2	4434.8	4429.8	4427.3	4420.0	4417.5	4425.0	4422.4
30°	4694.5	4706.7	4718.8	4709.2	4696.9	4689.5	4682.1	4672.4
32.5°	5049.7	5035.0	5025.2	5008.1	4986.0	4966.4	4951.6	4934.5
35°	5385.3	5360.8	5351.1	5365.8	5363.3	5351.1	5333.9	5319.3
37.5°	5796.9	5792.0	5796.9	5823.9	5819.0	5831.3	5796.9	5794.4
40°	6316.4	6321.4	6355.6	6387.5	6404.6	6421.8	6402.1	6382.5
42.5°	6919.1	6916.7	6928.8	6973.1	7002.4	7022.1	6980.4	6975.5
45°	7556.2	7538.9	7548.7	7585.6	7614.9	7637.0	7590.5	7590.5
47.5°	8257.0	8227.4	8195.6	8237.3	8254.4	8269.1	8232.3	8220.1
50°	9038.4	8977.2	8908.6	8925.7	8925.7	8920.9	8874.3	8871.8
52.5°	9935.3	9822.4	9697.6	9651.0	9624.0	9594.6	9513.8	9474.6
55°	10966.7	10797.6	10601.6	10481.6	10417.9	10337.1	10202.3	10165.5
57.5°	12172.2	11907.6	11569.5	11422.4	11280.2	11148.0	10998.6	10956.8
60°	13600.6	13211.1	12762.6	12490.7	12336.3	12209.0	12054.5	12047.2
62.5°	15193.2	14578.1	14071.1	13826.0	13713.3	13600.6	13453.6	13473.1
65°	16812.7	16170.7	15695.4	15496.9	15391.6	15298.5	15151.5	15173.5
67.5°	18410.1	17819.7	17297.9	17094.4	16976.8	16859.2	16726.9	16749.0
70°	19556.8	18824.3	18236.2	17785.4	17503.6	17185.0	16979.3	16927.8
72.5°	19228.5	18099.1	17165.5	16271.2	15746.8	15320.6	15031.3	14906.5
75°	16641.1	15097.5	13897.0	12799.4	12181.9	11679.7	11314.6	11086.7
77.5°	12358.3	10623.6	9205.0	7940.7	6941.2	6269.8	5796.9	5490.7
80°	6764.7	5145.2	3760.9	2643.7	1942.9	1614.7	1426.0	1335.3
82.5°	2107.2	1359.9	1002.1	864.9	803.7	769.4	713.0	622.3
85°	671.4	588.0	546.3	521.8	497.4	433.7	299.0	271.9
87.5°	259.7	267.1	264.6	249.9	254.8	183.8	147.1	129.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)