

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: P268641

Luminaire Tested: **GAN-AF-07-LED-U-5MQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268641
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-5MQ-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38426 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G4

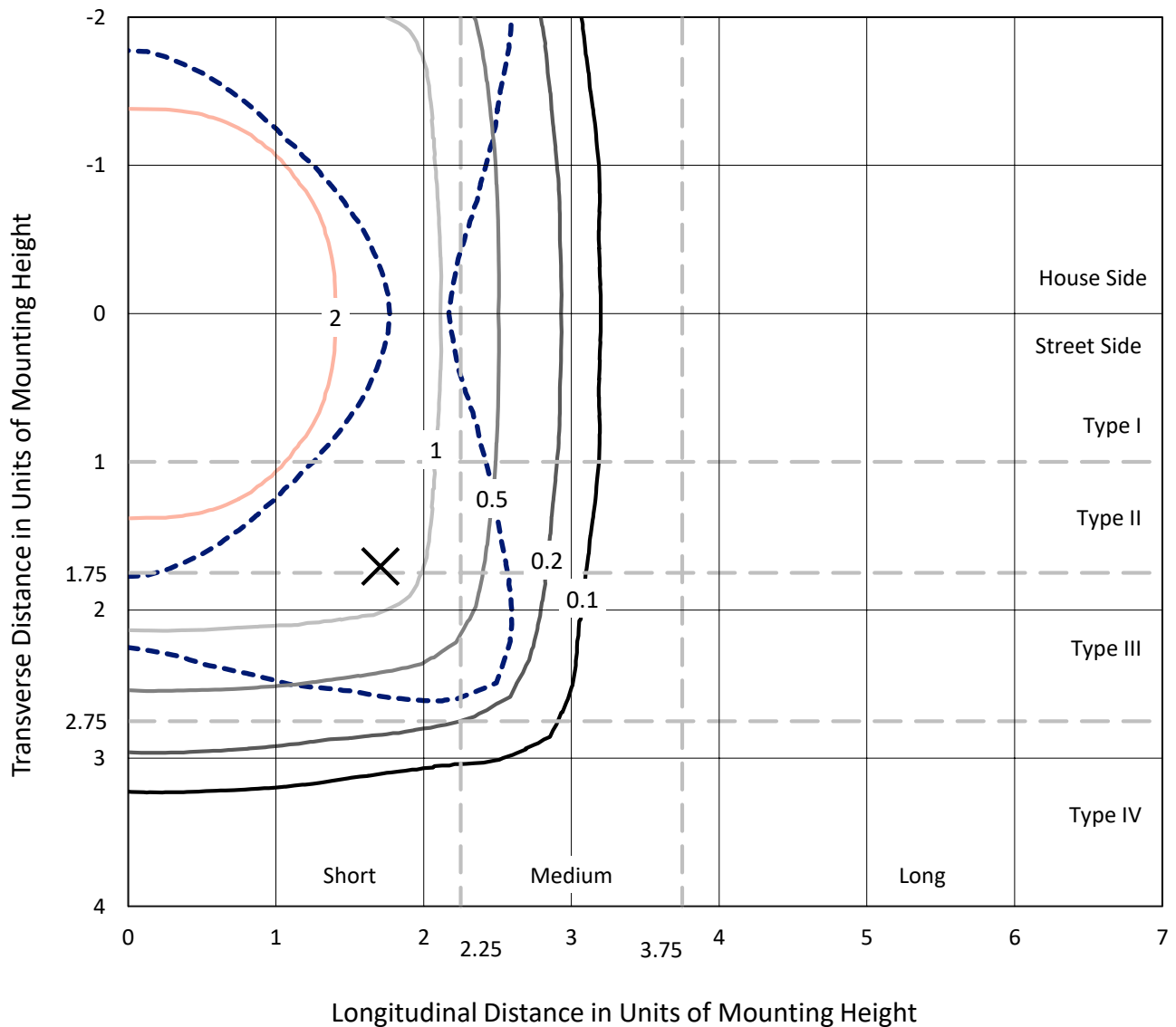
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

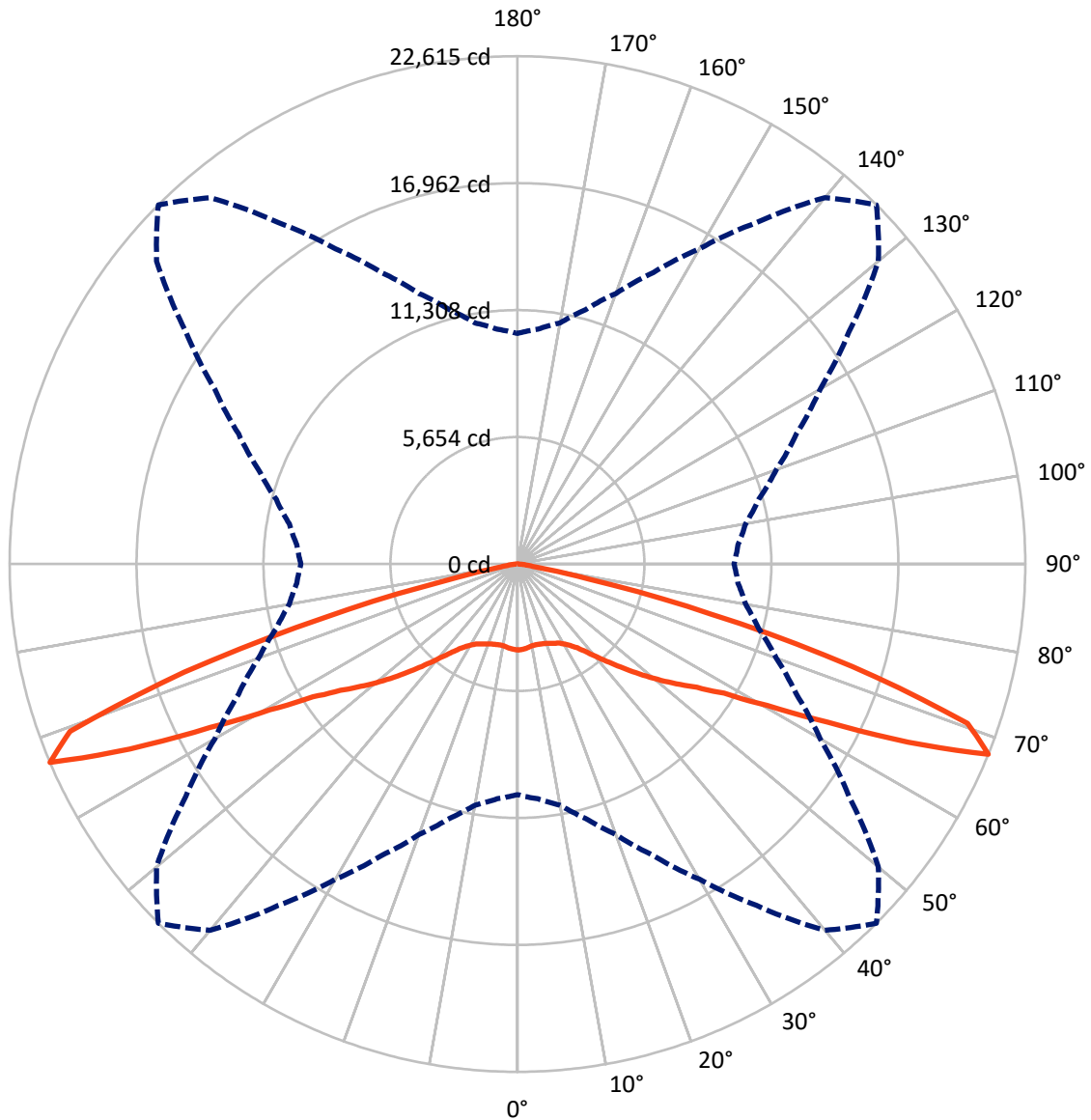
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19213.0	0.0	19213.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19213.0	0.0	19213.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	38426.0	0.0	38426.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.4	0.9
10°-20°	1040.0	2.7
20°-30°	1768.0	4.6
30°-40°	2890.2	7.5
40°-50°	5159.5	13.4
50°-60°	8699.0	22.6
60°-70°	13499.6	35.1
70°-80°	4743.2	12.3
80°-90°	268.0	0.7
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°	38426.0	100.0
0°-180°	38426.0	100.0



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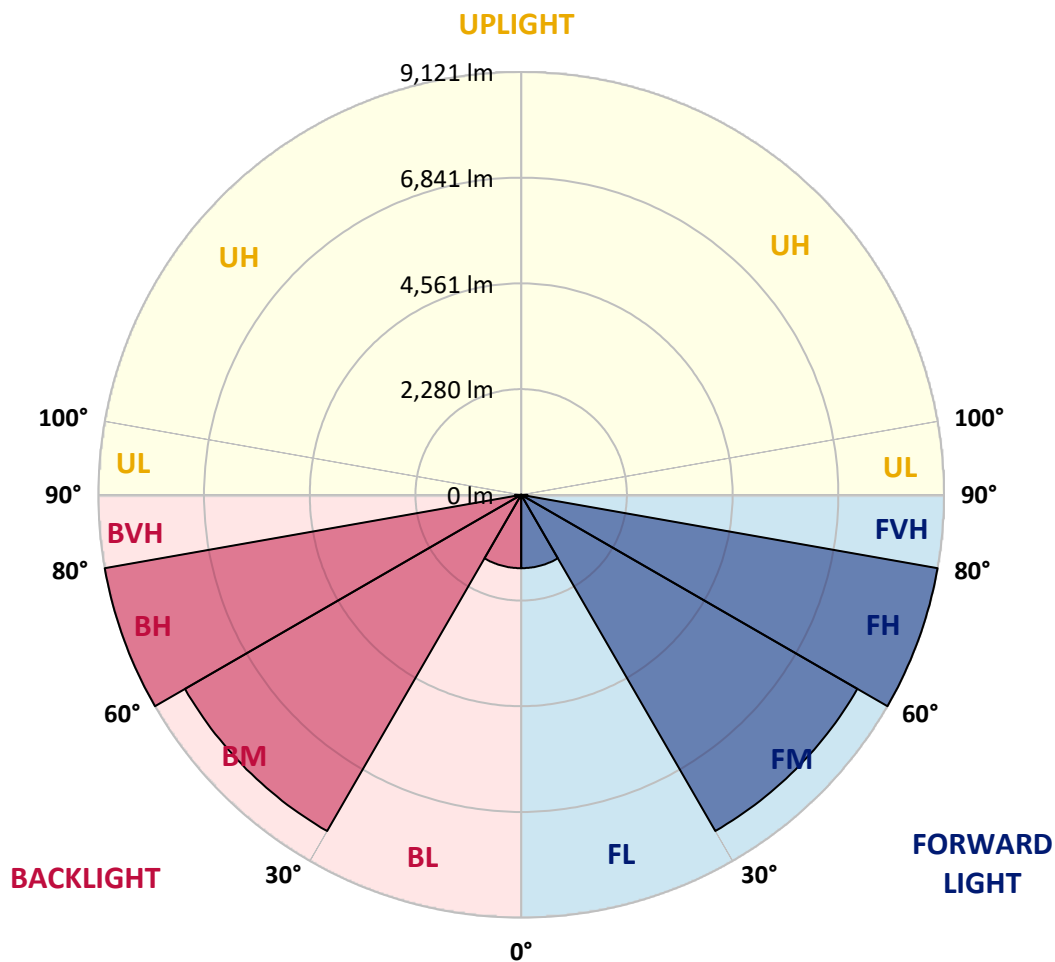
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1583.2	4.1			
FM	(30°-60°)	8374.3	21.8			
FH	(60°-80°)	9121.4	23.7			G4/12000
FVH	(80°-90°)	134.0	0.3			G2/225
BL	(0°-30°)	1583.2	4.1	B3/2500		
BM	(30°-60°)	8374.3	21.8	B4/8500		
BH	(60°-80°)	9121.4	23.7	B5		G4/12000
BVH	(80°-90°)	134.0	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-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3829.4	3829.4	3829.4	3829.4	3829.4	3829.4	3829.4	3829.4	3829.4	3829.4	3829.4
2.5°	3815.2	3818.8	3818.8	3818.8	3817.0	3817.0	3813.5	3817.0	3815.2	3809.9	3811.7
5°	3783.4	3787.0	3787.0	3785.2	3790.5	3788.7	3783.4	3787.0	3785.2	3781.7	3783.4
7.5°	3737.4	3742.7	3742.7	3740.9	3746.2	3744.4	3740.9	3742.7	3742.7	3737.4	3737.4
10°	3686.1	3689.7	3689.7	3687.9	3696.7	3696.7	3695.0	3700.3	3702.1	3696.7	3693.2
12.5°	3638.4	3643.7	3643.7	3650.8	3659.7	3663.2	3672.0	3679.1	3686.1	3684.4	3677.3
15°	3610.2	3613.7	3620.8	3629.6	3643.7	3656.1	3670.2	3686.1	3700.3	3703.8	3693.2
17.5°	3592.5	3597.8	3608.4	3620.8	3640.2	3661.4	3682.6	3703.8	3723.3	3730.3	3717.9
20°	3587.2	3590.7	3601.3	3622.5	3649.1	3680.8	3710.9	3735.6	3762.1	3770.9	3762.1
22.5°	3597.8	3604.9	3617.2	3642.0	3677.3	3717.9	3753.3	3787.0	3820.5	3836.4	3824.1
25°	3645.5	3652.6	3668.5	3700.3	3739.1	3781.7	3822.3	3861.2	3891.2	3907.1	3898.3
27.5°	3733.8	3742.7	3762.1	3794.0	3836.4	3882.4	3926.5	3958.3	3983.1	3988.4	3977.8
30°	3866.5	3885.9	3908.9	3944.2	3993.7	4032.5	4076.7	4105.0	4135.0	4135.0	4126.2
32.5°	4073.2	4092.6	4117.3	4150.9	4189.9	4232.3	4271.1	4295.9	4327.7	4329.4	4308.2
35°	4382.4	4391.3	4412.5	4433.7	4469.0	4506.1	4539.7	4555.6	4582.2	4584.0	4564.4
37.5°	4790.7	4792.4	4806.6	4813.6	4845.4	4886.1	4917.9	4928.5	4953.2	4949.7	4930.2
40°	5266.0	5274.8	5280.1	5290.7	5324.3	5363.2	5396.7	5402.0	5428.5	5423.2	5398.5
42.5°	5815.5	5819.1	5849.1	5865.0	5896.8	5916.2	5958.6	5963.9	5995.7	5981.6	5953.3
45°	6432.3	6464.1	6492.3	6524.1	6557.6	6580.8	6614.3	6607.3	6628.5	6607.3	6591.4
47.5°	7080.8	7103.7	7167.3	7216.9	7271.6	7291.1	7338.8	7317.6	7338.8	7308.7	7303.4
50°	7794.8	7835.3	7890.2	7946.6	8004.9	8036.7	8098.6	8072.1	8100.3	8072.1	8056.2
52.5°	8498.0	8508.6	8628.8	8711.9	8793.1	8830.2	8867.3	8855.0	8856.7	8855.0	8839.1
55°	9165.9	9190.6	9310.8	9423.9	9565.3	9669.5	9733.1	9726.0	9710.1	9694.2	9667.7
57.5°	9918.7	9943.5	10081.3	10220.9	10381.7	10530.1	10659.2	10791.7	10842.9	10857.0	10798.7
60°	10936.5	10934.8	11118.6	11288.2	11518.0	11738.8	12021.6	12309.7	12640.1	12793.8	12590.6
62.5°	11972.2	12014.6	12279.7	12580.0	13053.6	13514.8	14036.0	14548.6	15071.7	15497.5	15045.2
65°	11848.5	12011.0	12405.1	13085.4	13960.1	14999.2	16123.0	17312.3	18386.7	19125.4	18296.6
67.5°	10268.6	10500.1	10901.2	11728.2	12822.0	14320.6	16207.8	18559.9	21293.7	22615.4	20977.3
70°	7443.0	7704.6	8125.1	8932.7	10015.9	11440.3	13490.0	16313.8	19932.9	21265.2	19461.2
72.5°	3703.8	3845.3	4105.0	4619.3	5439.1	6594.8	8453.8	11168.1	14370.0	15592.9	13944.2
75°	1258.2	1323.6	1367.7	1535.7	1795.4	2249.5	3173.7	4882.5	7448.3	8929.2	7342.2
77.5°	726.3	728.0	758.1	788.2	832.3	881.7	1005.6	1320.0	2283.1	3242.6	2362.6
80°	470.1	468.2	493.0	515.9	546.0	570.8	577.8	611.4	705.1	835.9	747.5
82.5°	243.9	274.0	328.7	358.8	415.2	425.8	411.8	399.3	422.4	438.3	448.9
85°	134.2	116.6	174.9	226.3	250.9	254.5	254.5	240.3	249.2	243.9	265.1
87.5°	61.9	56.6	68.9	111.3	118.3	100.7	106.0	93.7	67.2	65.3	74.2
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°	3829.4	3829.4	3829.4	3829.4	3829.4	3829.4	3829.4	3829.4
2.5°	3811.7	3813.5	3813.5	3818.8	3820.5	3824.1	3827.6	3829.4
5°	3781.7	3787.0	3783.4	3788.7	3788.7	3792.3	3792.3	3794.0
7.5°	3737.4	3742.7	3742.7	3742.7	3740.9	3746.2	3746.2	3746.2
10°	3691.4	3695.0	3693.2	3689.7	3686.1	3691.4	3689.7	3687.9
12.5°	3677.3	3668.5	3661.4	3657.9	3650.8	3652.6	3647.3	3647.3
15°	3686.1	3670.2	3657.9	3652.6	3645.5	3642.0	3638.4	3640.2
17.5°	3709.1	3689.7	3673.8	3664.9	3656.1	3650.8	3643.7	3645.5
20°	3749.7	3726.8	3703.8	3686.1	3670.2	3661.4	3656.1	3654.3
22.5°	3809.9	3776.3	3742.7	3716.2	3695.0	3682.6	3677.3	3673.8
25°	3878.8	3841.7	3802.9	3772.7	3751.5	3735.6	3725.0	3725.0
27.5°	3965.4	3935.4	3900.0	3864.7	3845.3	3829.4	3822.3	3818.8
30°	4110.3	4082.0	4053.7	4020.2	3995.4	3979.5	3967.2	3956.6
32.5°	4295.9	4272.9	4249.9	4225.2	4202.2	4181.0	4161.5	4152.7
35°	4557.3	4539.7	4523.8	4495.5	4486.7	4474.3	4463.7	4454.9
37.5°	4917.9	4910.8	4910.8	4880.8	4873.7	4868.4	4857.8	4859.6
40°	5391.4	5398.5	5389.7	5379.1	5373.8	5359.6	5359.6	5372.0
42.5°	5951.6	5956.9	5976.3	5958.6	5978.1	5960.4	5949.8	5958.6
45°	6602.0	6621.3	6660.3	6642.5	6655.0	6624.9	6587.8	6589.5
47.5°	7331.6	7349.4	7365.4	7352.8	7354.7	7305.1	7255.7	7243.4
50°	8089.7	8096.9	8105.6	8088.0	8091.6	8036.7	7980.3	7982.0
52.5°	8839.1	8872.6	8908.0	8860.3	8849.7	8787.8	8708.3	8676.5
55°	9696.0	9743.7	9703.1	9620.0	9537.0	9454.0	9349.6	9332.0
57.5°	10752.8	10671.5	10544.2	10387.0	10272.2	10155.6	10049.5	10005.3
60°	12223.1	11917.4	11687.6	11454.4	11307.7	11164.6	11025.0	11003.8
62.5°	14301.1	13772.9	13315.0	12832.6	12438.7	12131.2	11885.6	11816.7
65°	16905.8	15656.5	14573.4	13562.5	12684.2	12021.6	11604.6	11420.8
67.5°	18026.2	15559.4	13702.0	12267.3	11118.6	10316.3	9865.7	9641.2
70°	15840.4	12903.3	10883.5	9446.9	8400.8	7545.6	7137.4	6896.9
72.5°	10897.7	8208.3	6490.6	5297.8	4461.9	3746.2	3463.5	3442.3
75°	4893.1	3240.8	2233.6	1721.2	1449.1	1260.0	1201.7	1157.5
77.5°	1369.5	1012.6	902.9	844.6	788.2	722.7	698.1	703.4
80°	666.3	629.2	604.4	567.2	515.9	461.2	436.4	447.0
82.5°	441.7	436.4	452.3	425.8	351.6	298.6	250.9	229.7
85°	268.7	272.1	277.4	279.3	236.9	166.0	113.0	127.2
87.5°	106.0	121.9	132.5	137.8	128.9	79.5	63.6	65.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)