

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: P192546

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192546
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-08-LED-U-5MQ-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39159.6 lumens
Efficiency: N/A
Efficacy: 117.2 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): 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

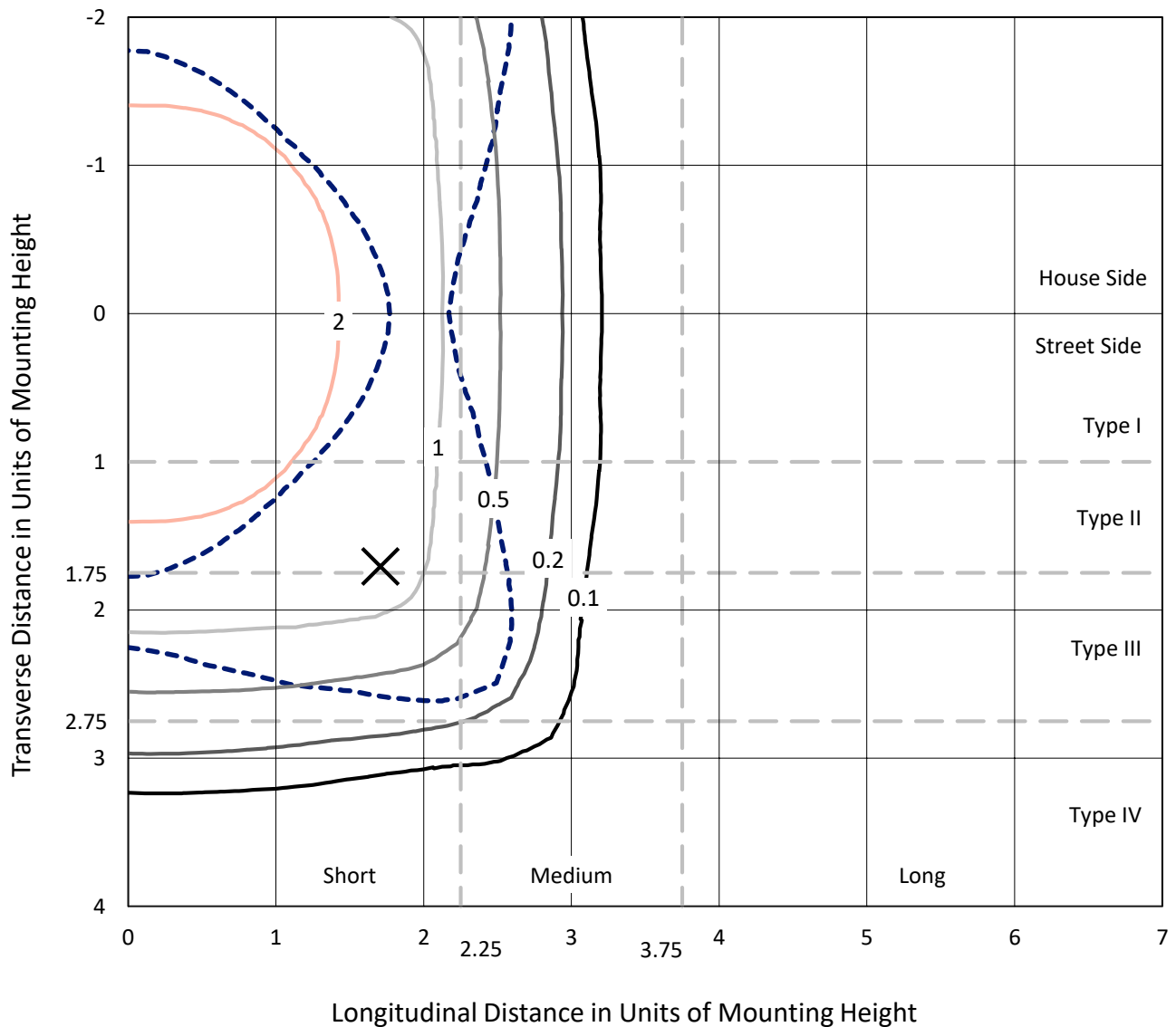


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

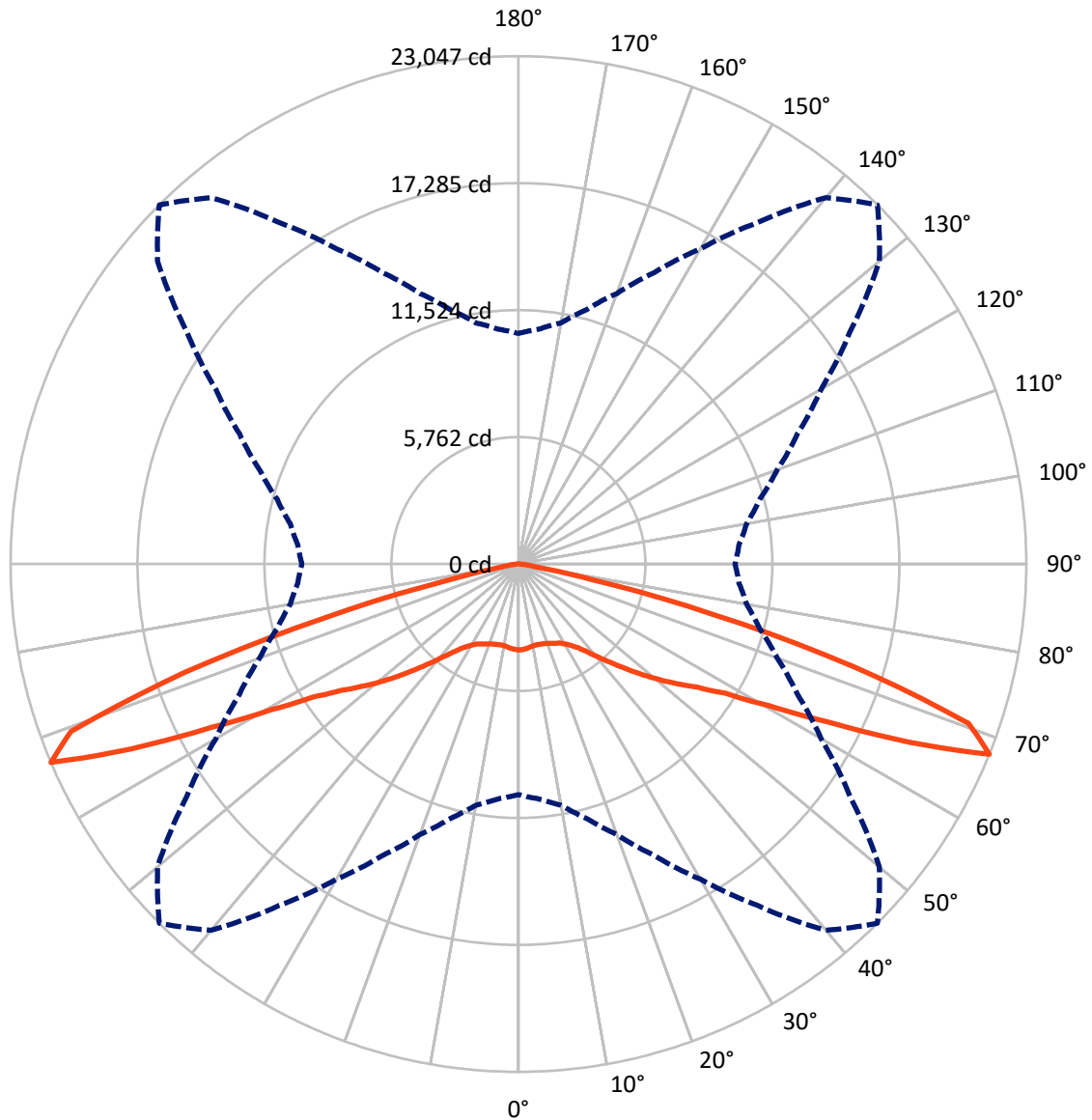


Based on 30 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - Full Cutoff

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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	19579.8	0.0	19579.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19579.8	0.0	19579.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	39159.6	0.0	39159.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.2	0.9
10°-20°	1059.9	2.7
20°-30°	1801.8	4.6
30°-40°	2945.4	7.5
40°-50°	5258.0	13.4
50°-60°	8865.1	22.6
60°-70°	13757.3	35.1
70°-80°	4833.7	12.3
80°-90°	273.2	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°	39159.6	100.0
0°-180°	39159.6	100.0

Coefficient of Utilization



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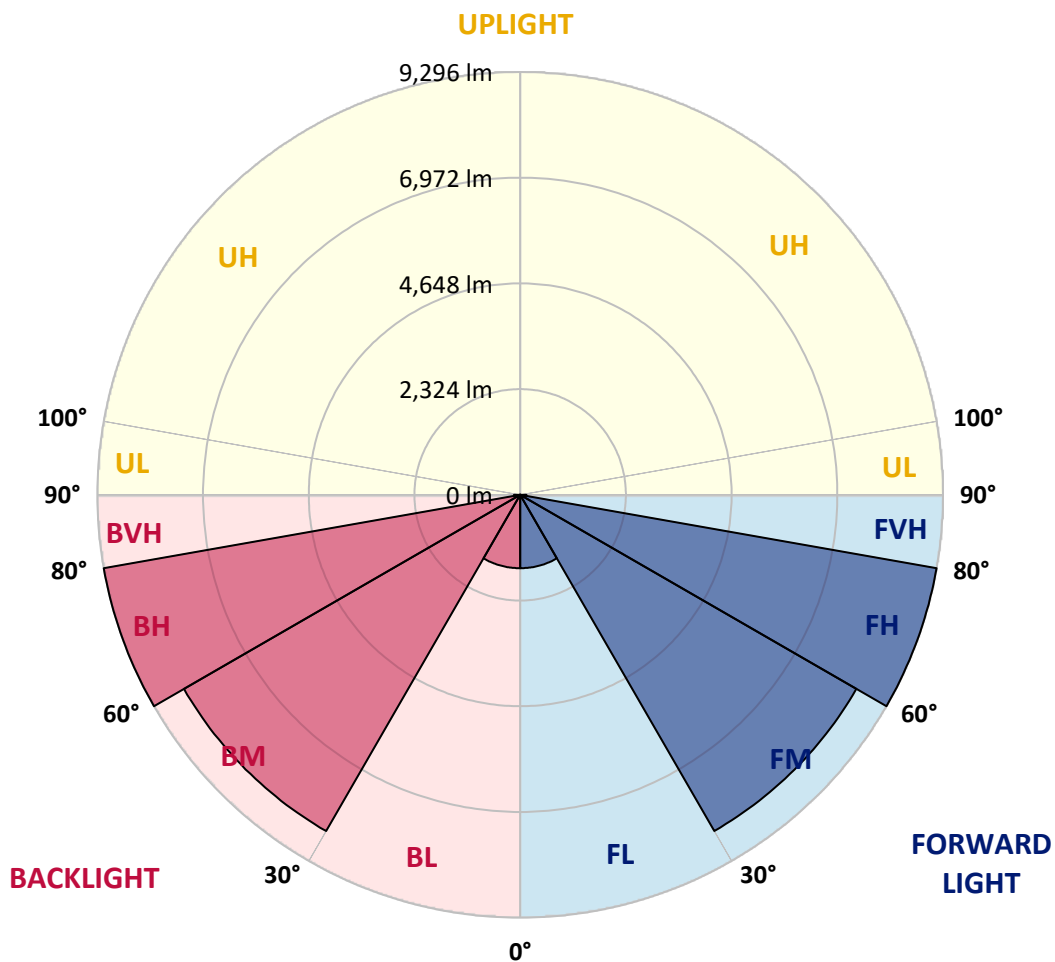
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1613.5	4.1			
FM	(30°-60°)	8534.2	21.8			
FH	(60°-80°)	9295.5	23.7			G4/12000
FVH	(80°-90°)	136.6	0.3			G2/225
BL	(0°-30°)	1613.5	4.1	B3/2500		
BM	(30°-60°)	8534.2	21.8	B5		
BH	(60°-80°)	9295.5	23.7	B5		G4/12000
BVH	(80°-90°)	136.6	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°	3902.4	3902.4	3902.4	3902.4	3902.4	3902.4	3902.4	3902.4	3902.4	3902.4	3902.4
2.5°	3888.0	3891.6	3891.6	3891.6	3889.8	3889.8	3886.3	3889.8	3888.0	3882.6	3884.3
5°	3855.6	3859.1	3859.1	3857.4	3862.8	3861.0	3855.6	3859.1	3857.4	3853.8	3855.6
7.5°	3808.8	3814.1	3814.1	3812.4	3817.7	3816.0	3812.4	3814.1	3814.1	3808.8	3808.8
10°	3756.6	3760.1	3760.1	3758.3	3767.4	3767.4	3765.5	3771.0	3772.7	3767.4	3763.8
12.5°	3707.9	3713.2	3713.2	3720.5	3729.6	3733.2	3742.1	3749.3	3756.6	3754.8	3747.6
15°	3679.1	3682.7	3689.9	3699.0	3713.2	3726.0	3740.4	3756.6	3771.0	3774.6	3763.8
17.5°	3661.1	3666.5	3677.3	3689.9	3709.7	3731.3	3752.9	3774.6	3794.3	3801.5	3789.0
20°	3655.7	3659.3	3670.1	3691.8	3718.7	3751.2	3781.8	3807.0	3834.0	3842.9	3834.0
22.5°	3666.5	3673.8	3686.3	3711.5	3747.6	3789.0	3824.9	3859.1	3893.5	3909.7	3897.1
25°	3715.2	3722.4	3738.6	3771.0	3810.5	3853.8	3895.2	3934.9	3965.4	3981.6	3972.6
27.5°	3805.2	3814.1	3834.0	3866.3	3909.7	3956.5	4001.5	4033.9	4059.1	4064.5	4053.7
30°	3940.2	3960.1	3983.5	4019.4	4069.9	4109.6	4154.6	4183.3	4214.0	4214.0	4205.0
32.5°	4151.0	4170.8	4196.0	4230.2	4269.8	4313.0	4352.7	4377.8	4410.2	4412.1	4390.5
35°	4466.1	4475.0	4496.7	4518.3	4554.4	4592.1	4626.4	4642.5	4669.6	4671.4	4651.6
37.5°	4882.0	4883.9	4898.3	4905.5	4937.9	4979.3	5011.7	5022.5	5047.8	5044.2	5024.4
40°	5366.5	5375.5	5380.9	5391.7	5426.0	5465.5	5499.8	5505.1	5532.3	5526.8	5501.5
42.5°	5926.6	5930.1	5960.7	5977.0	6009.4	6029.3	6072.4	6077.9	6110.3	6095.8	6067.0
45°	6555.0	6587.5	6616.3	6648.8	6683.0	6706.4	6740.5	6733.3	6755.0	6733.3	6717.2
47.5°	7215.9	7239.4	7304.2	7354.7	7410.5	7430.2	7478.9	7457.3	7478.9	7448.3	7442.8
50°	7943.4	7984.8	8040.7	8098.4	8157.9	8190.2	8253.2	8226.2	8255.1	8226.2	8210.1
52.5°	8660.2	8671.1	8793.5	8878.2	8961.0	8998.8	9036.7	9024.0	9025.8	9024.0	9007.8
55°	9341.0	9366.1	9488.6	9603.9	9748.0	9854.2	9919.0	9911.8	9895.6	9879.4	9852.4
57.5°	10108.1	10133.4	10273.7	10416.0	10579.9	10731.2	10862.7	10997.7	11049.9	11064.3	11004.9
60°	11145.4	11143.6	11330.8	11503.8	11737.8	11963.1	12251.1	12544.6	12881.4	13038.1	12831.0
62.5°	12200.7	12243.9	12514.0	12820.2	13302.8	13772.7	14304.1	14826.3	15359.3	15793.3	15332.4
65°	12074.7	12240.4	12642.0	13335.2	14226.6	15285.5	16430.9	17642.8	18737.8	19490.5	18645.8
67.5°	10464.7	10700.7	11109.4	11952.2	13066.9	14594.0	16517.3	18914.2	21700.1	23047.1	21377.7
70°	7585.1	7851.7	8280.2	9103.3	10207.1	11658.6	13747.6	16625.3	20313.5	21671.3	19832.6
72.5°	3774.6	3918.6	4183.3	4707.4	5542.9	6720.7	8615.2	11381.3	14644.4	15890.6	14210.5
75°	1282.1	1348.8	1393.8	1564.9	1829.6	2292.5	3234.3	4975.6	7590.6	9099.6	7482.5
77.5°	740.1	742.0	772.6	803.2	848.2	898.6	1024.7	1345.2	2326.6	3304.5	2407.7
80°	479.0	477.3	502.5	525.9	556.4	581.7	588.9	623.1	718.5	851.7	761.7
82.5°	248.6	279.1	335.0	365.6	423.2	434.0	419.5	407.0	430.4	446.7	457.4
85°	136.9	118.9	178.3	230.5	255.6	259.3	259.3	245.0	253.9	248.6	270.1
87.5°	63.1	57.6	70.3	113.4	120.6	102.6	108.0	95.5	68.4	66.6	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°	3902.4	3902.4	3902.4	3902.4	3902.4	3902.4	3902.4	3902.4
2.5°	3884.3	3886.3	3886.3	3891.6	3893.5	3897.1	3900.7	3902.4
5°	3853.8	3859.1	3855.6	3861.0	3861.0	3864.6	3864.6	3866.3
7.5°	3808.8	3814.1	3814.1	3814.1	3812.4	3817.7	3817.7	3817.7
10°	3761.9	3765.5	3763.8	3760.1	3756.6	3761.9	3760.1	3758.3
12.5°	3747.6	3738.6	3731.3	3727.7	3720.5	3722.4	3716.9	3716.9
15°	3756.6	3740.4	3727.7	3722.4	3715.2	3711.5	3707.9	3709.7
17.5°	3780.0	3760.1	3744.0	3734.9	3726.0	3720.5	3713.2	3715.2
20°	3821.4	3798.0	3774.6	3756.6	3740.4	3731.3	3726.0	3724.1
22.5°	3882.6	3848.4	3814.1	3787.2	3765.5	3752.9	3747.6	3744.0
25°	3952.9	3915.0	3875.4	3844.9	3823.2	3807.0	3796.2	3796.2
27.5°	4041.1	4010.5	3974.5	3938.5	3918.6	3902.4	3895.2	3891.6
30°	4188.8	4159.9	4131.1	4096.9	4071.6	4055.4	4042.9	4032.1
32.5°	4377.8	4354.4	4331.0	4305.8	4282.4	4260.8	4241.0	4231.9
35°	4644.4	4626.4	4610.2	4581.3	4572.3	4559.7	4548.9	4539.9
37.5°	5011.7	5004.5	5004.5	4973.9	4966.7	4961.4	4950.5	4952.2
40°	5494.3	5501.5	5492.6	5481.7	5476.4	5462.0	5462.0	5474.6
42.5°	6065.2	6070.7	6090.4	6072.4	6092.3	6074.3	6063.5	6072.4
45°	6727.9	6747.8	6787.4	6769.3	6781.9	6751.3	6713.6	6715.3
47.5°	7471.7	7489.7	7505.9	7493.3	7495.0	7444.7	7394.2	7381.7
50°	8244.2	8251.5	8260.4	8242.4	8246.1	8190.2	8132.6	8134.4
52.5°	9007.8	9042.0	9078.1	9029.4	9018.6	8955.6	8874.6	8842.2
55°	9881.2	9929.8	9888.4	9803.8	9719.1	9634.5	9528.3	9510.3
57.5°	10958.1	10875.2	10745.6	10585.4	10468.2	10349.5	10241.4	10196.4
60°	12456.4	12144.8	11910.8	11673.0	11523.6	11377.7	11235.4	11213.9
62.5°	14574.2	14035.8	13569.4	13077.7	12676.1	12362.8	12112.5	12042.2
65°	17228.6	15955.4	14851.5	13821.4	12926.5	12251.1	11826.1	11638.9
67.5°	18370.5	15856.4	13963.7	12501.5	11330.8	10513.3	10054.0	9825.3
70°	16142.7	13149.7	11091.4	9627.3	8561.2	7689.5	7273.6	7028.6
72.5°	11105.7	8364.9	6614.4	5398.9	4547.2	3817.7	3529.6	3508.0
75°	4986.5	3302.7	2276.3	1754.0	1476.6	1284.1	1224.6	1179.6
77.5°	1395.7	1031.9	920.2	860.9	803.2	736.5	711.3	716.7
80°	678.9	641.2	615.9	578.1	525.9	470.1	444.8	455.6
82.5°	450.2	444.8	461.0	434.0	358.4	304.4	255.6	234.2
85°	273.7	277.3	282.8	284.5	241.4	169.3	115.3	129.7
87.5°	108.0	124.2	135.1	140.5	131.4	81.1	64.8	66.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)