

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: P192564

Luminaire Tested: **GAN-AF-06-LED-U-5MQ-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192564
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-06-LED-U-5MQ-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39679.7 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 382
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

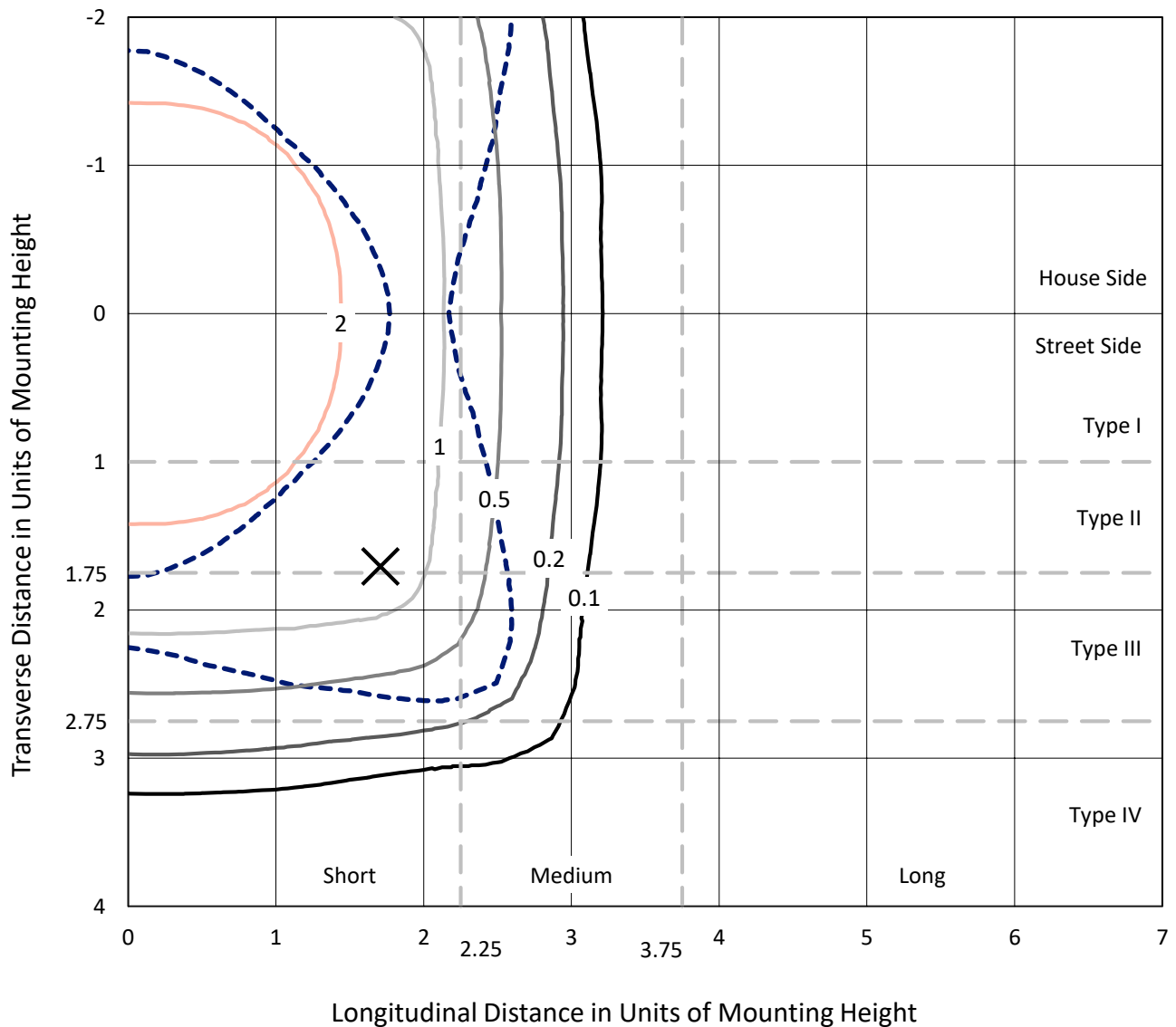


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

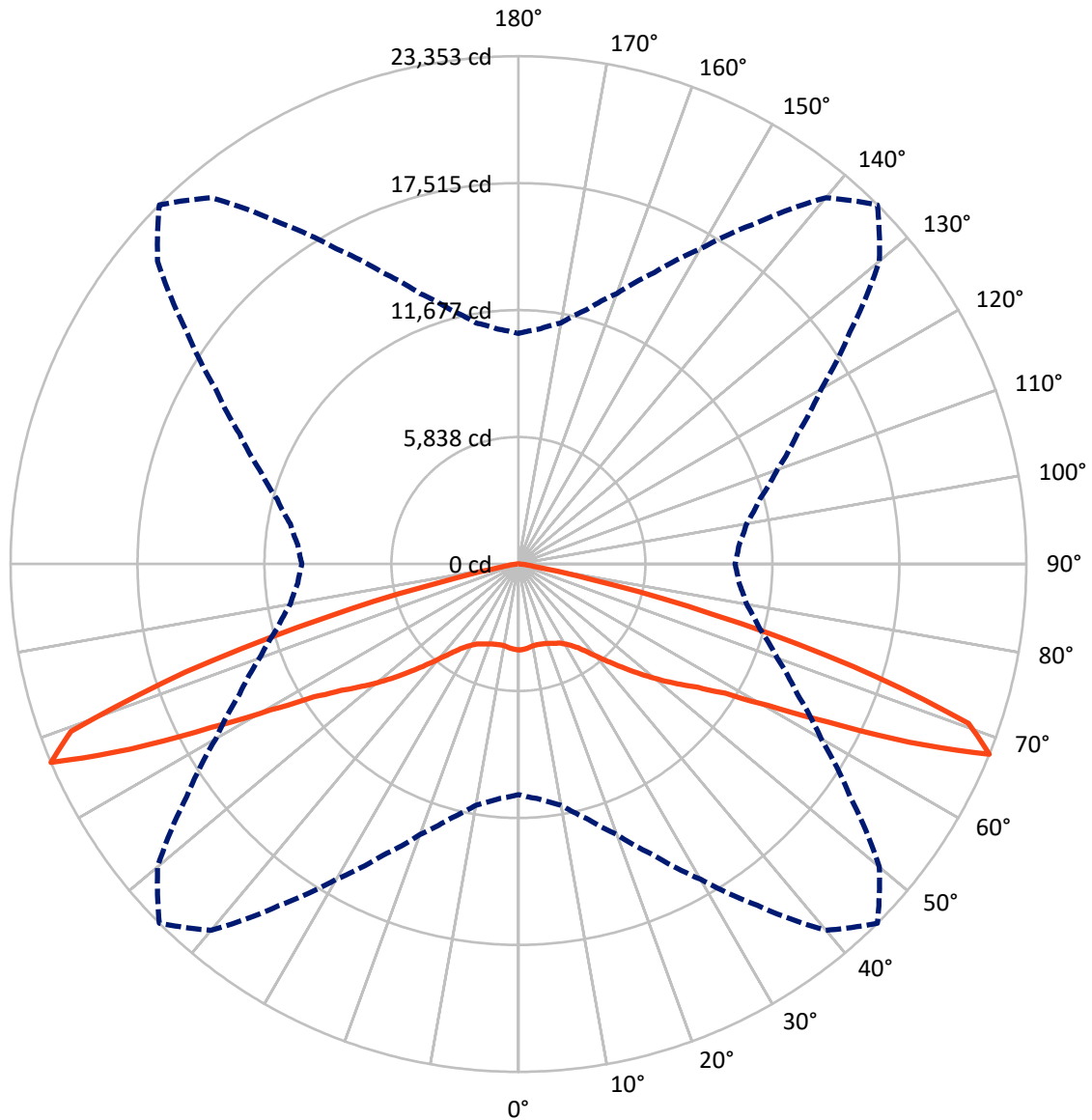


Based on 30 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - Full Cutoff

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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	19839.8	0.0	19839.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19839.8	0.0	19839.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	39679.7	0.0	39679.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.1	0.9
10°-20°	1074.0	2.7
20°-30°	1825.7	4.6
30°-40°	2984.5	7.5
40°-50°	5327.8	13.4
50°-60°	8982.9	22.6
60°-70°	13940.1	35.1
70°-80°	4897.9	12.3
80°-90°	276.8	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°	39679.7	100.0
0°-180°	39679.7	100.0



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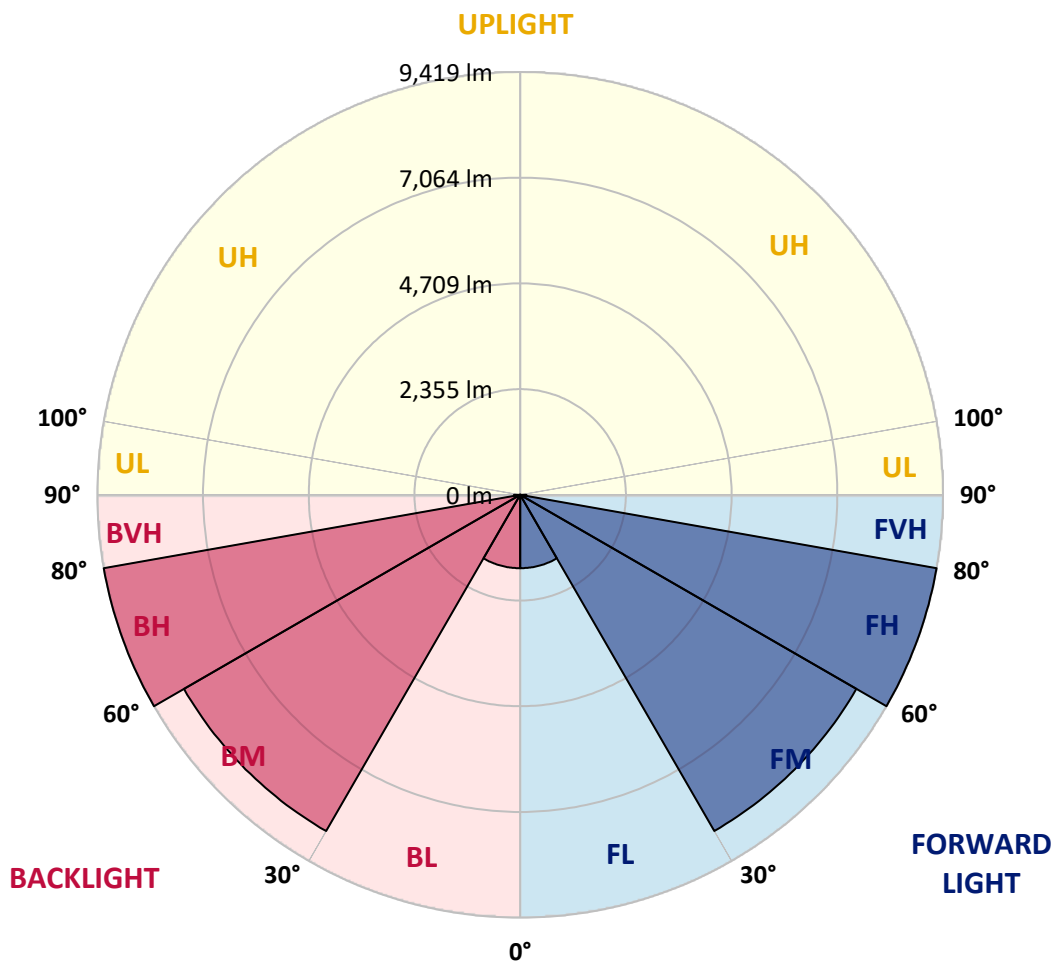
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1634.9	4.1			
FM	(30°-60°)	8647.6	21.8			
FH	(60°-80°)	9419.0	23.7			G4/12000
FVH	(80°-90°)	138.4	0.3			G2/225
BL	(0°-30°)	1634.9	4.1	B3/2500		
BM	(30°-60°)	8647.6	21.8	B5		
BH	(60°-80°)	9419.0	23.7	B5		G4/12000
BVH	(80°-90°)	138.4	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°	3954.2	3954.2	3954.2	3954.2	3954.2	3954.2	3954.2	3954.2	3954.2	3954.2	3954.2
2.5°	3939.7	3943.2	3943.2	3943.2	3941.5	3941.5	3937.8	3941.5	3939.7	3934.2	3935.9
5°	3906.8	3910.5	3910.5	3908.6	3914.1	3912.2	3906.8	3910.5	3908.6	3904.9	3906.8
7.5°	3859.4	3864.8	3864.8	3863.0	3868.5	3866.6	3863.0	3864.8	3864.8	3859.4	3859.4
10°	3806.5	3810.1	3810.1	3808.2	3817.4	3817.4	3815.6	3821.1	3822.9	3817.4	3813.7
12.5°	3757.2	3762.7	3762.7	3770.0	3779.1	3782.8	3791.9	3799.2	3806.5	3804.6	3797.3
15°	3727.9	3731.6	3739.0	3748.0	3762.7	3775.5	3789.9	3806.5	3821.1	3824.7	3813.7
17.5°	3709.7	3715.3	3726.2	3739.0	3758.9	3780.9	3802.8	3824.7	3844.8	3852.1	3839.3
20°	3704.2	3707.9	3718.8	3740.7	3768.2	3801.0	3831.9	3857.5	3884.9	3894.0	3884.9
22.5°	3715.3	3722.5	3735.2	3760.8	3797.3	3839.3	3875.8	3910.5	3945.2	3961.5	3948.7
25°	3764.5	3771.7	3788.2	3821.1	3861.2	3904.9	3947.0	3987.1	4018.1	4034.5	4025.4
27.5°	3855.8	3864.8	3884.9	3917.7	3961.5	4008.9	4054.6	4087.5	4112.9	4118.5	4107.5
30°	3992.6	4012.6	4036.4	4072.8	4124.0	4164.1	4209.8	4238.9	4270.0	4270.0	4260.8
32.5°	4206.1	4226.1	4251.8	4286.3	4326.4	4370.3	4410.5	4436.0	4468.8	4470.7	4448.7
35°	4525.4	4534.5	4556.4	4578.3	4614.8	4653.2	4687.8	4704.2	4731.6	4733.4	4713.3
37.5°	4946.9	4948.8	4963.3	4970.6	5003.5	5045.5	5078.3	5089.3	5114.8	5111.1	5091.1
40°	5437.8	5446.9	5452.4	5463.3	5498.0	5538.2	5572.8	5578.2	5605.6	5600.2	5574.6
42.5°	6005.3	6008.9	6040.0	6056.3	6089.2	6109.2	6153.1	6158.5	6191.4	6176.8	6147.6
45°	6642.1	6674.9	6704.1	6737.0	6771.7	6795.4	6830.1	6822.8	6844.6	6822.8	6806.3
47.5°	7311.8	7335.5	7401.2	7452.3	7508.9	7528.9	7578.2	7556.4	7578.2	7547.2	7541.7
50°	8049.0	8090.9	8147.6	8205.9	8266.1	8299.0	8362.8	8335.5	8364.7	8335.5	8319.1
52.5°	8775.2	8786.2	8910.3	8996.1	9080.0	9118.3	9156.6	9143.9	9145.6	9143.9	9127.4
55°	9465.0	9490.6	9614.6	9731.4	9877.4	9985.1	10050.8	10043.4	10027.0	10010.7	9983.2
57.5°	10242.4	10267.8	10410.2	10554.5	10720.4	10873.7	11006.9	11143.8	11196.7	11211.3	11151.1
60°	11293.5	11291.6	11481.4	11656.6	11893.8	12121.9	12413.8	12711.2	13052.4	13211.2	13001.5
62.5°	12362.6	12406.5	12680.2	12990.5	13479.5	13955.8	14494.0	15023.2	15563.3	16003.1	15536.0
65°	12235.0	12402.9	12809.8	13512.3	14415.5	15488.5	16649.0	17877.1	18986.6	19749.3	18893.5
67.5°	10603.6	10842.7	11256.9	12111.0	13240.5	14787.8	16736.7	19165.3	21988.3	23353.2	21661.7
70°	7685.9	7955.9	8390.2	9224.1	10342.7	11813.4	13930.2	16846.1	20583.3	21959.2	20096.0
72.5°	3824.7	3970.7	4238.9	4769.9	5616.6	6810.0	8729.6	11532.5	14838.9	16101.6	14399.2
75°	1299.2	1366.8	1412.4	1585.7	1853.9	2323.0	3277.2	5041.8	7691.3	9220.5	7581.8
77.5°	749.9	751.8	782.9	813.9	859.5	910.5	1038.3	1363.1	2357.6	3348.5	2439.6
80°	485.4	483.6	509.1	532.8	563.9	589.4	596.7	631.4	728.1	863.1	771.9
82.5°	251.9	282.9	339.4	370.4	428.9	439.8	425.1	412.4	436.2	452.6	463.5
85°	138.6	120.4	180.6	233.6	259.2	262.8	262.8	248.1	257.3	251.9	273.7
87.5°	63.9	58.4	71.1	114.9	122.3	104.1	109.5	96.7	69.4	67.5	76.6
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°	3954.2	3954.2	3954.2	3954.2	3954.2	3954.2	3954.2	3954.2
2.5°	3935.9	3937.8	3937.8	3943.2	3945.2	3948.7	3952.5	3954.2
5°	3904.9	3910.5	3906.8	3912.2	3912.2	3916.0	3916.0	3917.7
7.5°	3859.4	3864.8	3864.8	3864.8	3863.0	3868.5	3868.5	3868.5
10°	3811.9	3815.6	3813.7	3810.1	3806.5	3811.9	3810.1	3808.2
12.5°	3797.3	3788.2	3780.9	3777.2	3770.0	3771.7	3766.2	3766.2
15°	3806.5	3789.9	3777.2	3771.7	3764.5	3760.8	3757.2	3758.9
17.5°	3830.2	3810.1	3793.7	3784.5	3775.5	3770.0	3762.7	3764.5
20°	3872.1	3848.4	3824.7	3806.5	3789.9	3780.9	3775.5	3773.6
22.5°	3934.2	3899.5	3864.8	3837.5	3815.6	3802.8	3797.3	3793.7
25°	4005.3	3966.9	3926.9	3895.8	3874.0	3857.5	3846.6	3846.6
27.5°	4094.7	4063.7	4027.2	3990.7	3970.7	3954.2	3947.0	3943.2
30°	4244.4	4215.2	4185.9	4151.3	4125.7	4109.3	4096.5	4085.6
32.5°	4436.0	4412.2	4388.5	4362.9	4339.2	4317.4	4297.2	4288.2
35°	4706.1	4687.8	4671.4	4642.2	4633.0	4620.2	4609.3	4600.3
37.5°	5078.3	5071.0	5071.0	5040.0	5032.7	5027.2	5016.2	5018.1
40°	5567.3	5574.6	5565.5	5554.5	5549.1	5534.5	5534.5	5547.3
42.5°	6145.9	6151.3	6171.3	6153.1	6173.1	6154.9	6143.9	6153.1
45°	6817.3	6837.3	6877.6	6859.3	6872.1	6841.0	6802.7	6804.5
47.5°	7570.9	7589.1	7605.5	7592.9	7594.6	7543.6	7492.5	7479.7
50°	8353.8	8361.1	8370.2	8351.9	8355.6	8299.0	8240.6	8242.4
52.5°	9127.4	9162.2	9198.6	9149.4	9138.3	9074.5	8992.4	8959.6
55°	10012.4	10061.6	10019.7	9934.0	9848.2	9762.5	9654.8	9636.5
57.5°	11103.7	11019.7	10888.3	10725.9	10607.3	10486.9	10377.5	10331.8
60°	12621.8	12306.2	12068.9	11828.1	11676.6	11528.8	11384.7	11362.8
62.5°	14767.8	14222.2	13749.5	13251.4	12844.4	12526.9	12273.3	12202.2
65°	17457.5	16167.3	15048.8	14005.0	13098.1	12413.8	11983.2	11793.5
67.5°	18614.4	16067.0	14149.2	12667.4	11481.4	10652.9	10187.7	9955.9
70°	16357.1	13324.3	11238.6	9755.1	8674.8	7791.8	7370.2	7122.1
72.5°	11253.2	8476.0	6702.3	5470.6	4607.5	3868.5	3576.5	3554.6
75°	5052.8	3346.6	2306.5	1777.3	1496.3	1301.1	1240.8	1195.2
77.5°	1414.2	1045.6	932.4	872.2	813.9	746.4	720.8	726.2
80°	687.9	649.6	624.1	585.7	532.8	476.3	450.7	461.6
82.5°	456.1	450.7	467.1	439.8	363.2	308.3	259.2	237.2
85°	277.4	281.1	286.5	288.3	244.5	171.5	116.8	131.3
87.5°	109.5	125.8	136.9	142.4	133.2	82.2	65.7	67.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)