

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: P190887

Luminaire Tested: **GAN-AF-09-LED-U-5WQ-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190887
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-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46325.3 lumens
Efficiency: N/A
Efficacy: 123.9 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

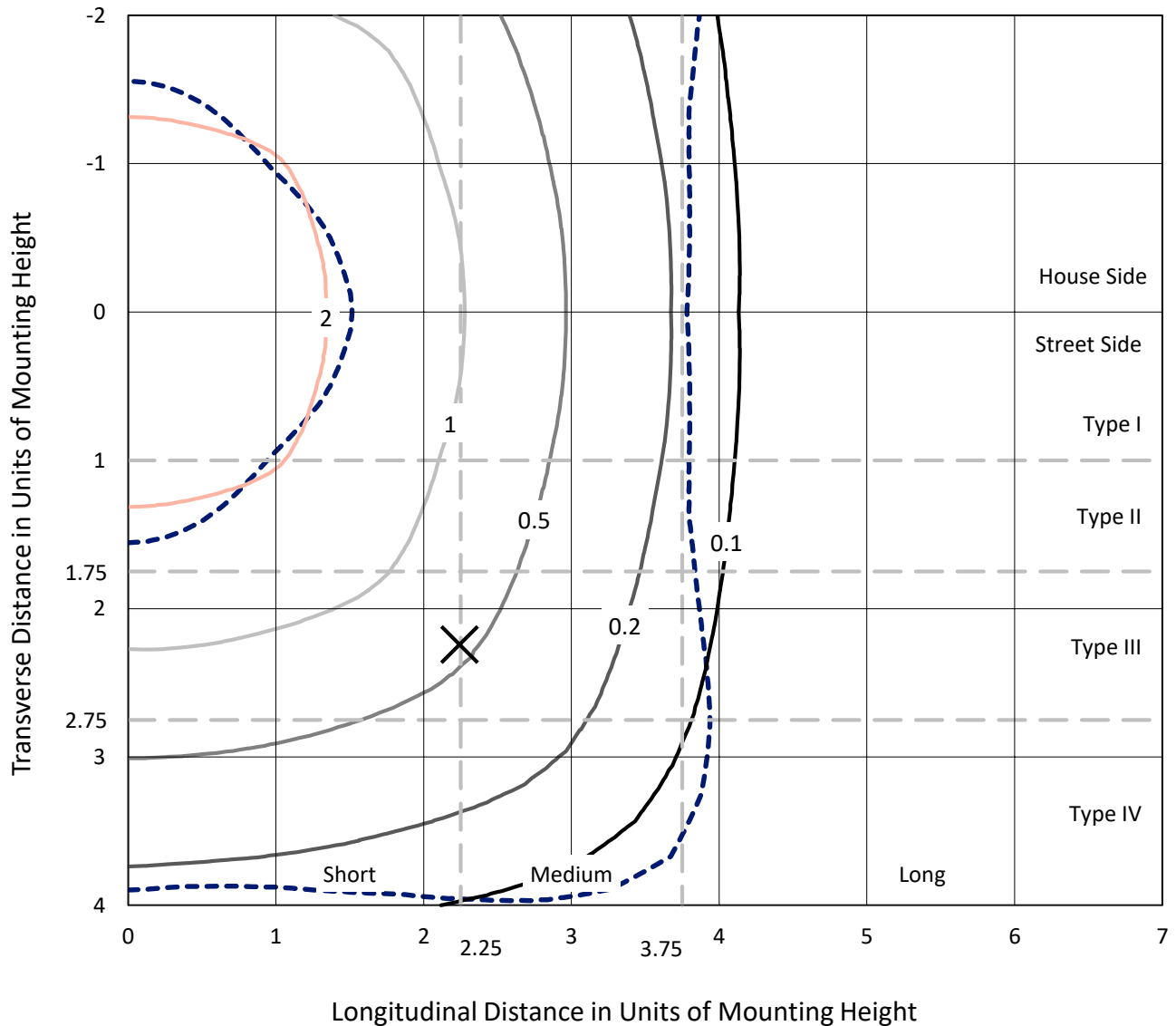
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

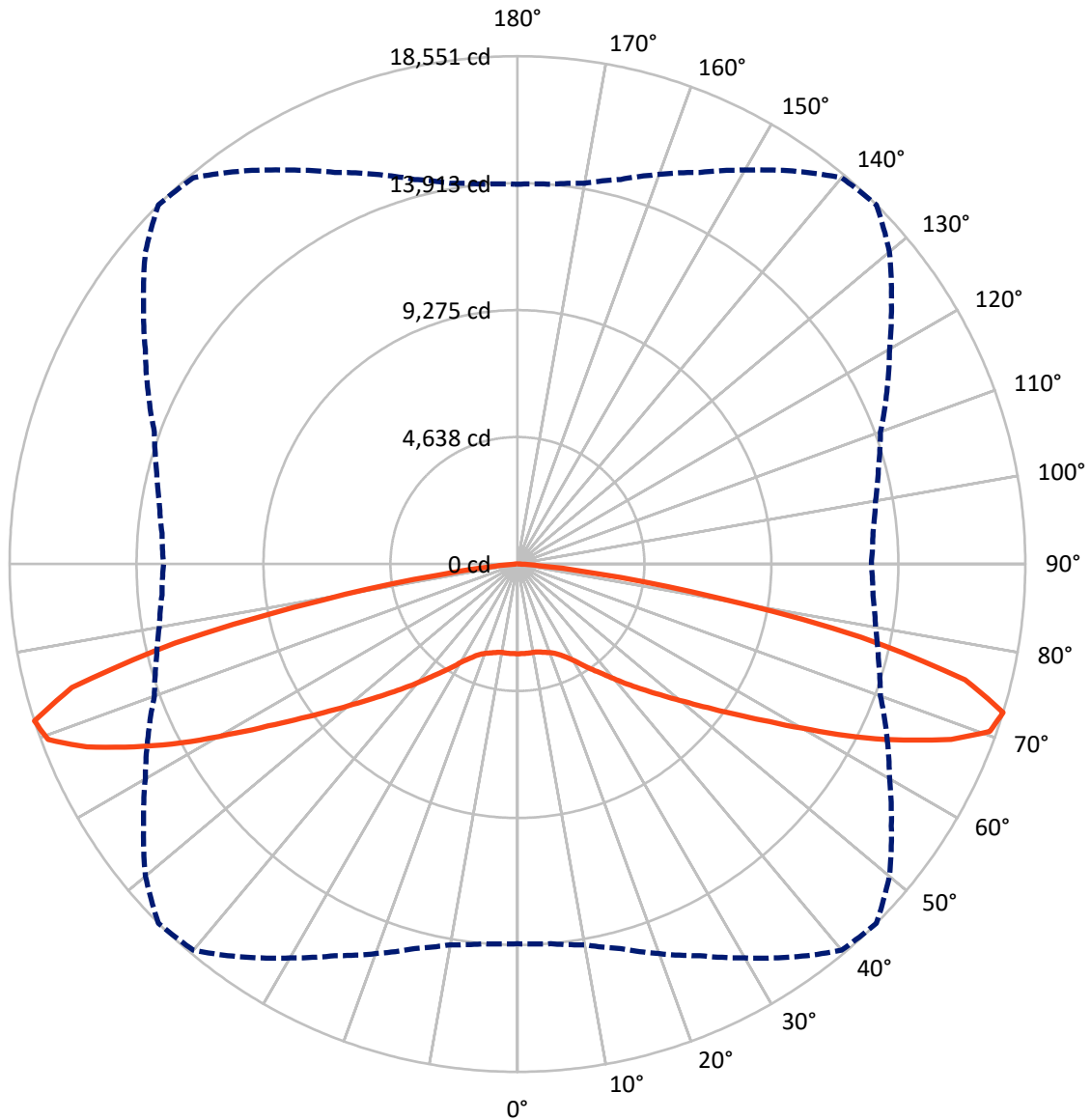
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.6 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	23162.7	0.0	23162.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23162.7	0.0	23162.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	46325.3	0.0	46325.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.3	0.7
10°-20°	951.4	2.1
20°-30°	1738.6	3.8
30°-40°	2997.6	6.5
40°-50°	5124.4	11.1
50°-60°	8306.0	17.9
60°-70°	13779.3	29.7
70°-80°	12136.3	26.2
80°-90°	978.5	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°	46325.3	100.0
0°-180°	46325.3	100.0



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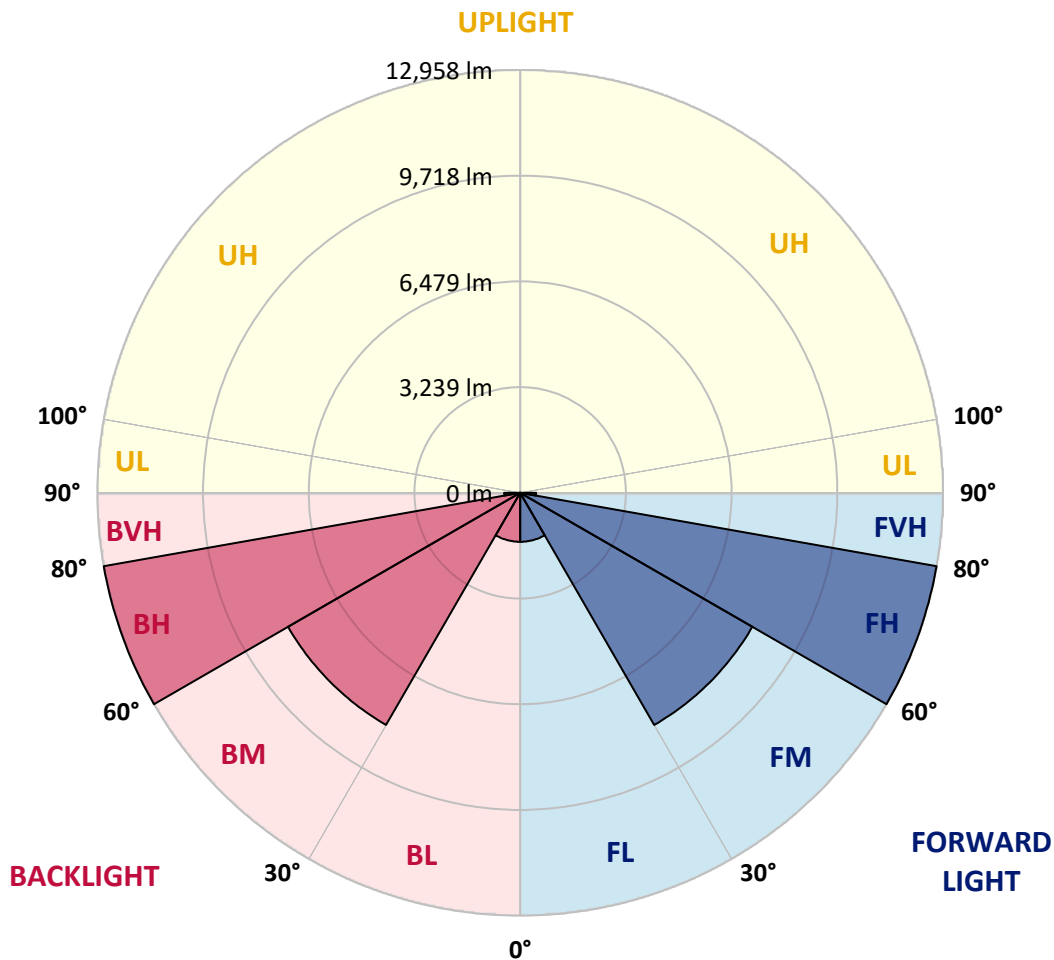
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1501.6	3.2			
FM	(30°-60°)	8214.0	17.7			
FH	(60°-80°)	12957.8	28.0			G5
FVH	(80°-90°)	489.3	1.1			G3/500
BL	(0°-30°)	1501.6	3.2	B3/2500		
BM	(30°-60°)	8214.0	17.7	B4/8500		
BH	(60°-80°)	12957.8	28.0	B5		G5
BVH	(80°-90°)	489.3	1.1			G3/500
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°	3280.6	3280.6	3280.6	3280.6	3280.6	3280.6	3280.6	3280.6	3280.6	3280.6	3280.6
2.5°	3280.6	3282.6	3284.8	3282.6	3282.6	3280.6	3278.5	3280.6	3278.5	3274.2	3276.3
5°	3291.1	3295.4	3295.4	3291.1	3293.3	3291.1	3286.9	3289.1	3284.8	3278.5	3278.5
7.5°	3303.9	3306.1	3306.1	3301.8	3303.9	3299.6	3295.4	3293.3	3289.1	3280.6	3274.2
10°	3323.1	3325.2	3323.1	3318.8	3318.8	3312.4	3301.8	3297.6	3289.1	3276.3	3270.0
12.5°	3344.3	3346.4	3344.3	3340.0	3337.9	3327.2	3318.8	3312.4	3306.1	3295.4	3284.8
15°	3374.0	3378.3	3374.0	3365.5	3359.2	3350.7	3346.4	3348.5	3350.7	3342.2	3331.5
17.5°	3429.2	3431.4	3425.0	3405.9	3397.4	3388.9	3388.9	3393.1	3399.6	3395.3	3384.6
20°	3531.2	3524.9	3510.1	3486.6	3476.0	3461.2	3459.0	3461.2	3461.2	3459.0	3450.5
22.5°	3658.8	3654.5	3635.4	3605.6	3590.8	3582.3	3569.5	3558.8	3556.8	3550.4	3541.9
25°	3811.7	3809.6	3786.2	3760.8	3750.1	3739.5	3728.9	3714.0	3701.2	3686.4	3677.9
27.5°	4007.2	3998.7	3964.8	3952.0	3937.1	3930.7	3915.9	3898.9	3888.2	3869.1	3858.5
30°	4221.8	4221.8	4194.2	4189.9	4189.9	4175.1	4158.1	4128.3	4109.2	4090.1	4083.7
32.5°	4436.4	4438.5	4410.9	4419.4	4425.8	4436.4	4440.6	4430.0	4417.3	4415.2	4402.4
35°	4746.6	4738.1	4710.5	4716.8	4714.8	4712.6	4712.6	4736.0	4740.3	4744.4	4719.0
37.5°	5131.2	5131.2	5103.6	5103.6	5090.8	5078.0	5061.0	5076.0	5099.3	5105.6	5088.7
40°	5571.0	5585.8	5551.9	5549.7	5554.0	5513.6	5494.5	5517.9	5532.7	5558.2	5539.1
42.5°	6089.4	6078.8	6044.8	6040.5	6017.2	6004.4	5987.4	6006.6	6029.9	6047.0	6053.3
45°	6586.6	6578.1	6539.8	6539.8	6516.5	6505.9	6514.4	6546.3	6556.9	6580.2	6603.6
47.5°	7077.4	7066.7	7041.3	7051.9	7054.1	7073.2	7100.8	7130.6	7160.2	7192.2	7202.8
50°	7578.8	7581.0	7553.4	7578.8	7610.8	7663.8	7738.2	7787.1	7848.7	7889.1	7901.8
52.5°	8035.7	8044.2	8073.9	8133.4	8197.1	8301.2	8428.7	8547.7	8649.7	8717.7	8713.4
55°	8583.8	8596.6	8668.8	8770.8	8874.9	9032.1	9221.3	9431.6	9601.6	9699.3	9637.7
57.5°	9285.0	9312.6	9393.3	9531.4	9686.5	9890.5	10149.7	10466.3	10729.8	10861.5	10761.6
60°	10247.5	10264.5	10362.2	10515.2	10702.2	10955.0	11301.4	11726.3	12098.1	12272.3	12157.6
62.5°	11516.0	11547.8	11626.4	11781.5	11972.7	12259.6	12682.4	13213.6	13676.8	13919.0	13659.8
65°	13030.9	13132.8	13198.7	13356.0	13534.5	13838.3	14280.2	14849.6	15346.8	15506.1	15206.6
67.5°	14530.9	14620.1	14734.9	14915.4	15096.1	15438.2	15848.3	16400.7	16946.7	17091.2	16625.9
70°	15187.4	15238.4	15416.9	15663.4	16009.7	16413.3	16887.2	17507.6	18183.3	18302.2	17711.6
72.5°	13872.2	13923.3	14123.0	14541.6	15145.0	15786.6	16613.1	17524.6	18417.0	18550.9	17737.0
75°	10491.8	10408.9	10704.3	11258.8	12072.7	12967.1	14123.0	15429.7	16719.3	16887.2	15916.2
77.5°	5422.3	5411.6	5634.7	6323.2	7294.2	8311.9	9584.5	11061.3	12323.3	12833.2	12042.9
80°	1527.7	1544.7	1650.9	1993.0	2560.2	3295.4	4289.7	5673.0	6705.5	7232.5	6790.6
82.5°	599.1	645.9	686.3	750.0	824.4	932.7	1245.0	1852.8	2485.9	2970.3	2432.8
85°	214.6	229.4	325.1	384.5	391.0	412.1	469.5	548.2	660.8	788.3	648.0
87.5°	80.7	89.2	104.1	172.1	170.0	155.1	189.1	197.6	148.7	136.0	167.9
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°	3280.6	3280.6	3280.6	3280.6	3280.6	3280.6	3280.6	3280.6
2.5°	3272.0	3274.2	3274.2	3276.3	3278.5	3278.5	3282.6	3282.6
5°	3274.2	3274.2	3270.0	3272.0	3270.0	3270.0	3272.0	3272.0
7.5°	3270.0	3267.8	3263.5	3261.5	3257.2	3257.2	3257.2	3257.2
10°	3263.5	3261.5	3257.2	3255.0	3253.0	3253.0	3253.0	3253.0
12.5°	3280.6	3274.2	3270.0	3267.8	3267.8	3267.8	3267.8	3267.8
15°	3325.2	3310.3	3299.6	3299.6	3301.8	3306.1	3306.1	3310.3
17.5°	3380.4	3363.5	3352.8	3344.3	3348.5	3354.9	3359.2	3363.5
20°	3446.3	3437.8	3422.9	3414.4	3414.4	3422.9	3427.2	3429.2
22.5°	3537.7	3531.2	3524.9	3514.2	3514.2	3518.5	3527.0	3527.0
25°	3673.6	3669.4	3665.1	3656.6	3654.5	3654.5	3658.8	3663.0
27.5°	3843.6	3845.7	3841.5	3839.3	3833.0	3830.8	3837.2	3835.1
30°	4070.9	4081.6	4092.2	4083.7	4073.1	4066.7	4060.3	4051.8
32.5°	4379.0	4366.3	4357.8	4342.9	4323.8	4306.8	4294.0	4279.2
35°	4670.1	4648.9	4640.4	4653.1	4650.9	4640.4	4625.5	4612.8
37.5°	5027.1	5022.8	5027.1	5050.4	5046.2	5056.9	5027.1	5024.9
40°	5477.5	5481.8	5511.5	5539.1	5554.0	5568.8	5551.9	5534.9
42.5°	6000.2	5998.1	6008.7	6047.0	6072.4	6089.4	6053.3	6049.0
45°	6552.6	6537.8	6546.3	6578.1	6603.6	6622.7	6582.4	6582.4
47.5°	7160.2	7134.8	7107.2	7143.3	7158.2	7170.9	7139.1	7128.4
50°	7838.1	7785.0	7725.4	7740.4	7740.4	7736.1	7695.7	7693.6
52.5°	8615.7	8518.0	8409.6	8369.3	8345.8	8320.4	8250.3	8216.2
55°	9510.2	9363.6	9193.7	9089.5	9034.3	8964.1	8847.3	8815.4
57.5°	10555.5	10326.1	10032.9	9905.4	9782.2	9667.4	9537.8	9501.7
60°	11794.3	11456.4	11067.6	10831.8	10697.9	10587.4	10453.5	10447.2
62.5°	13175.3	12642.0	12202.3	11989.7	11892.0	11794.3	11666.8	11683.8
65°	14579.8	14023.1	13610.9	13438.8	13347.5	13266.6	13139.2	13158.3
67.5°	15965.1	15453.0	15000.4	14824.1	14722.1	14620.1	14505.4	14524.6
70°	16959.4	16324.1	15814.2	15423.2	15179.0	14902.8	14724.3	14679.7
72.5°	16674.7	15695.2	14885.8	14110.2	13655.5	13285.8	13035.2	12926.7
75°	14431.1	13092.4	12051.4	11099.5	10564.1	10128.5	9811.9	9614.3
77.5°	10717.0	9212.8	7982.5	6886.2	6019.3	5437.1	5027.1	4761.5
80°	5866.3	4461.9	3261.5	2292.5	1684.9	1400.2	1236.5	1158.0
82.5°	1827.3	1179.3	869.0	750.0	696.9	667.2	618.3	539.7
85°	582.2	509.9	473.8	452.6	431.3	376.0	259.2	235.9
87.5°	225.3	231.6	229.4	216.8	221.0	159.4	127.5	112.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)