

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: P268802

Luminaire Tested: **GAN-AF-09-LED-U-5MQ-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268802
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-09-LED-U-5MQ-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32000.2 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 290
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

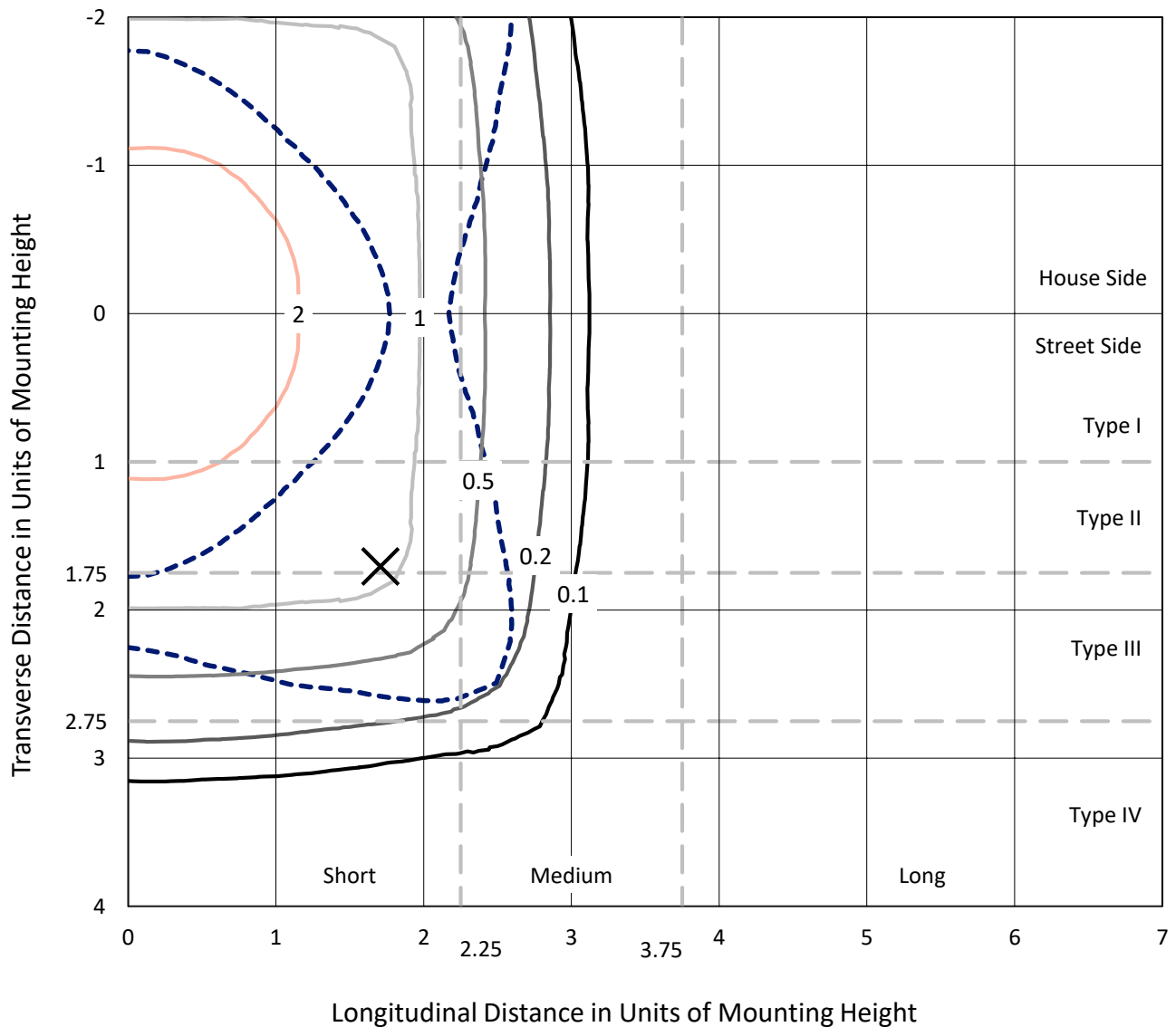


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

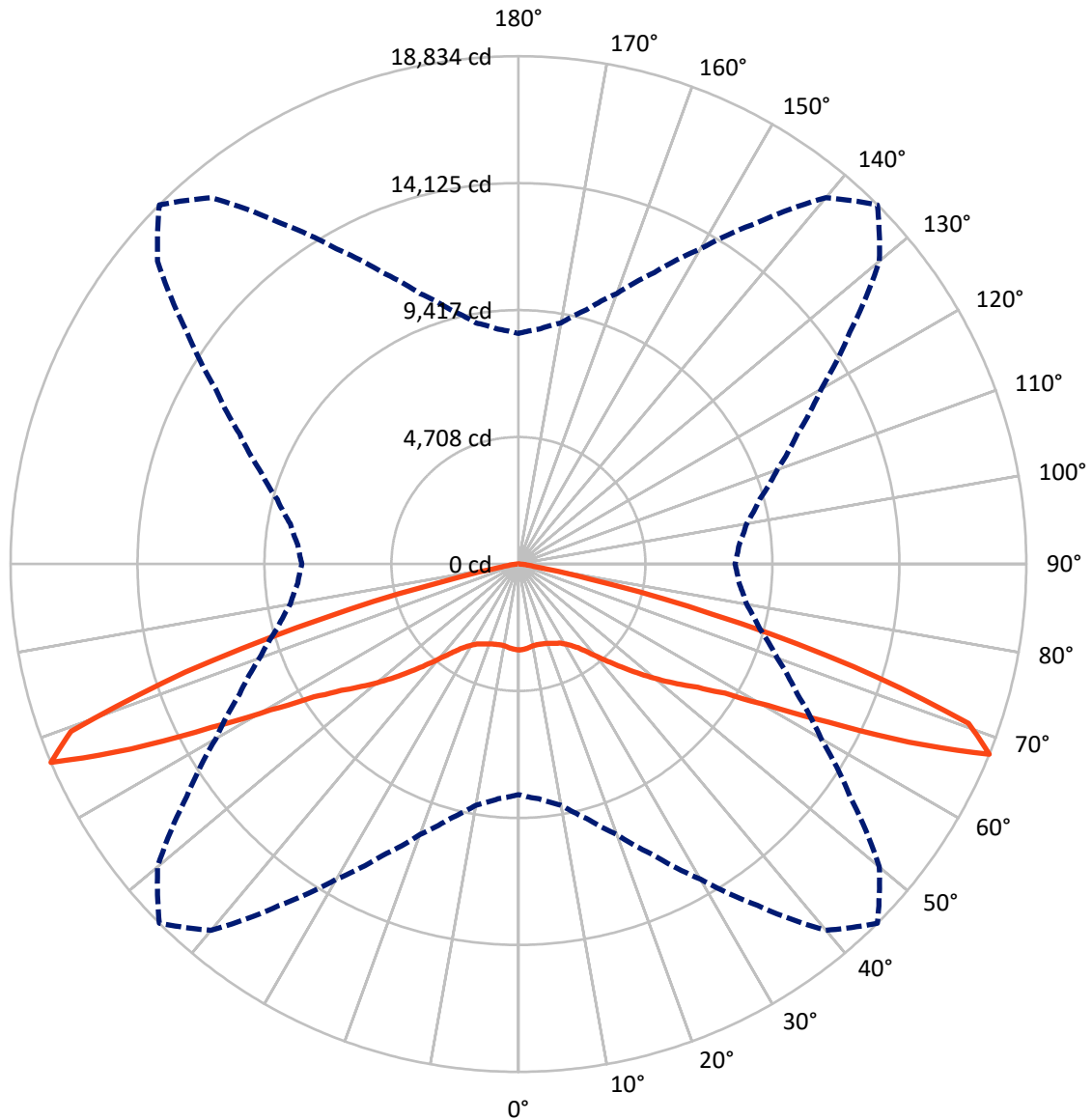


Based on 30 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - Full Cutoff

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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	16000.1	0.0	16000.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16000.1	0.0	16000.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	32000.2	0.0	32000.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.5	0.9
10°-20°	866.1	2.7
20°-30°	1472.4	4.6
30°-40°	2406.9	7.5
40°-50°	4296.7	13.4
50°-60°	7244.3	22.6
60°-70°	11242.1	35.1
70°-80°	3950.0	12.3
80°-90°	223.2	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°	32000.2	100.0
0°-180°	32000.2	100.0



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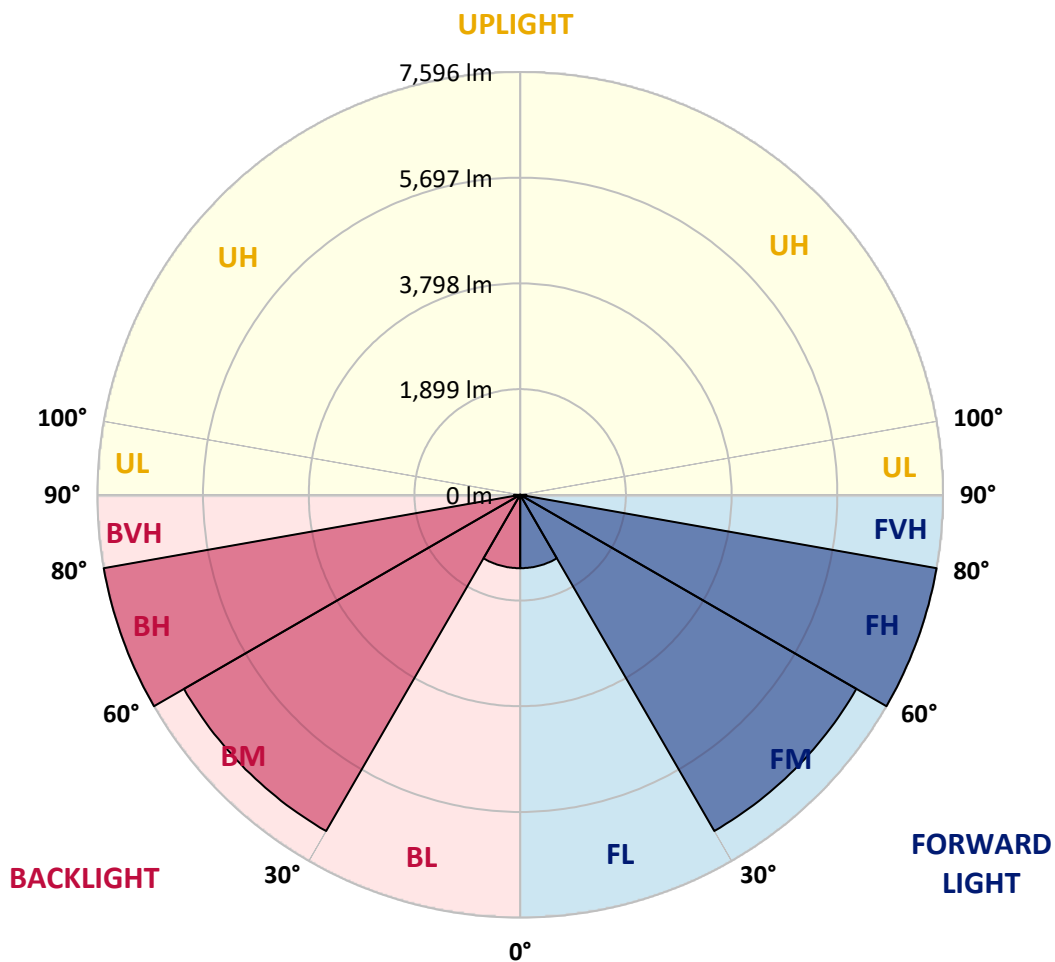
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1318.5	4.1			
FM	(30°-60°)	6974.0	21.8			
FH	(60°-80°)	7596.1	23.7			G4/12000
FVH	(80°-90°)	111.6	0.3			G2/225
BL	(0°-30°)	1318.5	4.1	B3/2500		
BM	(30°-60°)	6974.0	21.8	B4/8500		
BH	(60°-80°)	7596.1	23.7	B5		G4/12000
BVH	(80°-90°)	111.6	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°	3189.0	3189.0	3189.0	3189.0	3189.0	3189.0	3189.0	3189.0	3189.0	3189.0	3189.0
2.5°	3177.1	3180.1	3180.1	3180.1	3178.7	3178.7	3175.7	3178.7	3177.1	3172.8	3174.3
5°	3150.6	3153.6	3153.6	3152.2	3156.6	3155.0	3150.6	3153.6	3152.2	3149.2	3150.6
7.5°	3112.4	3116.8	3116.8	3115.4	3119.9	3118.3	3115.4	3116.8	3116.8	3112.4	3112.4
10°	3069.8	3072.7	3072.7	3071.2	3078.6	3078.6	3077.1	3081.5	3083.1	3078.6	3075.6
12.5°	3030.1	3034.5	3034.5	3040.4	3047.7	3050.6	3058.0	3063.8	3069.8	3068.3	3062.4
15°	3006.4	3009.4	3015.3	3022.6	3034.5	3044.7	3056.6	3069.8	3081.5	3084.5	3075.6
17.5°	2991.7	2996.1	3005.0	3015.3	3031.5	3049.1	3066.9	3084.5	3100.7	3106.6	3096.3
20°	2987.4	2990.3	2999.1	3016.8	3038.8	3065.3	3090.3	3111.0	3133.1	3140.4	3133.1
22.5°	2996.1	3002.0	3012.3	3032.9	3062.4	3096.3	3125.7	3153.6	3181.5	3194.8	3184.5
25°	3035.9	3041.8	3055.0	3081.5	3114.0	3149.2	3183.1	3215.5	3240.5	3253.8	3246.4
27.5°	3109.6	3116.8	3133.1	3159.5	3194.8	3233.1	3269.9	3296.4	3317.0	3321.5	3312.6
30°	3219.9	3236.1	3255.2	3284.7	3325.9	3358.3	3395.0	3418.5	3443.6	3443.6	3436.1
32.5°	3392.0	3408.2	3428.8	3456.8	3489.1	3524.5	3556.8	3577.5	3603.9	3605.3	3587.8
35°	3649.5	3656.9	3674.5	3692.3	3721.7	3752.6	3780.5	3793.8	3815.9	3817.3	3801.2
37.5°	3989.6	3991.0	4002.8	4008.6	4035.1	4069.0	4095.5	4104.3	4124.8	4122.0	4105.8
40°	4385.3	4392.7	4397.2	4405.9	4433.9	4466.4	4494.3	4498.7	4520.8	4516.4	4495.7
42.5°	4843.0	4845.9	4871.0	4884.3	4910.8	4926.9	4962.2	4966.6	4993.0	4981.5	4957.8
45°	5356.7	5383.2	5406.7	5433.2	5461.1	5480.2	5508.1	5502.3	5519.9	5502.3	5489.1
47.5°	5896.7	5915.9	5968.8	6010.0	6055.7	6071.9	6111.6	6093.9	6111.6	6086.6	6082.2
50°	6491.2	6525.1	6570.7	6617.8	6666.3	6692.8	6744.4	6722.2	6745.8	6722.2	6709.0
52.5°	7076.9	7085.7	7185.8	7255.0	7322.7	7353.5	7384.4	7374.1	7375.7	7374.1	7360.9
55°	7633.2	7653.7	7753.9	7848.0	7965.8	8052.5	8105.5	8099.7	8086.5	8073.2	8051.1
57.5°	8260.0	8280.7	8395.5	8511.7	8645.6	8769.3	8876.7	8987.1	9029.8	9041.5	8992.9
60°	9107.7	9106.3	9259.3	9400.6	9591.9	9775.9	10011.3	10251.2	10526.3	10654.3	10485.1
62.5°	9970.1	10005.4	10226.1	10476.4	10870.7	11254.9	11688.9	12115.7	12551.3	12905.9	12529.2
65°	9867.1	10002.4	10330.6	10897.2	11625.7	12490.9	13426.8	14417.3	15312.0	15927.0	15237.0
67.5°	8551.4	8744.2	9078.4	9767.0	10678.0	11925.9	13497.6	15456.1	17732.8	18833.5	17469.3
70°	6198.3	6416.1	6766.5	7439.0	8341.0	9527.2	11234.3	13585.7	16599.6	17709.2	16206.7
72.5°	3084.5	3202.2	3418.5	3846.7	4529.6	5492.0	7040.1	9300.5	11967.0	12985.4	11612.4
75°	1047.8	1102.2	1139.1	1278.7	1495.1	1873.3	2643.1	4066.0	6202.7	7436.0	6114.6
77.5°	604.7	606.3	631.2	656.3	693.1	734.4	837.3	1099.3	1901.4	2700.3	1967.6
80°	391.4	390.0	410.5	429.7	454.7	475.4	481.2	509.2	587.1	696.0	622.4
82.5°	203.0	228.1	273.8	298.7	345.8	354.7	343.0	332.6	351.6	364.9	373.8
85°	111.8	97.1	145.6	188.4	208.9	211.9	211.9	200.1	207.5	203.0	220.8
87.5°	51.6	47.2	57.4	92.7	98.6	83.9	88.4	78.1	56.0	54.4	61.9
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°	3189.0	3189.0	3189.0	3189.0	3189.0	3189.0	3189.0	3189.0
2.5°	3174.3	3175.7	3175.7	3180.1	3181.5	3184.5	3187.5	3189.0
5°	3149.2	3153.6	3150.6	3155.0	3155.0	3158.0	3158.0	3159.5
7.5°	3112.4	3116.8	3116.8	3116.8	3115.4	3119.9	3119.9	3119.9
10°	3074.2	3077.1	3075.6	3072.7	3069.8	3074.2	3072.7	3071.2
12.5°	3062.4	3055.0	3049.1	3046.2	3040.4	3041.8	3037.3	3037.3
15°	3069.8	3056.6	3046.2	3041.8	3035.9	3032.9	3030.1	3031.5
17.5°	3088.9	3072.7	3059.4	3052.1	3044.7	3040.4	3034.5	3035.9
20°	3122.8	3103.6	3084.5	3069.8	3056.6	3049.1	3044.7	3043.3
22.5°	3172.8	3144.7	3116.8	3094.8	3077.1	3066.9	3062.4	3059.4
25°	3230.1	3199.3	3166.9	3141.8	3124.2	3111.0	3102.1	3102.1
27.5°	3302.3	3277.2	3247.8	3218.4	3202.2	3189.0	3183.1	3180.1
30°	3422.9	3399.4	3375.8	3348.0	3327.3	3314.0	3303.7	3295.0
32.5°	3577.5	3558.4	3539.2	3518.7	3499.4	3481.8	3465.7	3458.2
35°	3795.2	3780.5	3767.3	3743.7	3736.4	3726.1	3717.2	3709.9
37.5°	4095.5	4089.5	4089.5	4064.6	4058.7	4054.3	4045.4	4047.0
40°	4489.9	4495.7	4488.4	4479.6	4475.1	4463.4	4463.4	4473.6
42.5°	4956.4	4960.8	4977.0	4962.2	4978.4	4963.8	4955.0	4962.2
45°	5497.8	5514.1	5546.4	5531.8	5542.1	5517.0	5486.0	5487.6
47.5°	6105.7	6120.4	6133.6	6123.3	6124.9	6083.6	6042.4	6032.1
50°	6737.0	6742.9	6750.3	6735.5	6738.5	6692.8	6645.8	6647.2
52.5°	7360.9	7388.9	7418.4	7378.6	7369.8	7318.2	7252.0	7225.5
55°	8074.7	8114.4	8080.6	8011.4	7942.3	7873.0	7786.1	7771.5
57.5°	8954.7	8887.0	8781.0	8650.0	8554.4	8457.4	8369.0	8332.1
60°	10179.1	9924.5	9733.1	9538.9	9416.8	9297.5	9181.2	9163.7
62.5°	11909.6	11469.6	11088.5	10686.7	10358.5	10102.5	9898.0	9840.7
65°	14078.7	13038.4	12136.3	11294.5	10563.1	10011.3	9664.0	9511.0
67.5°	15011.8	12957.4	11410.8	10215.9	9259.3	8591.2	8216.0	8029.1
70°	13191.4	10745.6	9063.5	7867.1	6996.0	6283.7	5943.7	5743.7
72.5°	9075.3	6835.7	5405.2	4411.8	3715.7	3119.9	2884.4	2866.8
75°	4074.8	2698.9	1860.1	1433.3	1206.8	1049.2	1000.7	963.9
77.5°	1140.5	843.1	752.1	703.5	656.3	601.9	581.3	585.6
80°	554.9	523.9	503.3	472.4	429.7	384.0	363.5	372.3
82.5°	367.9	363.5	376.7	354.7	292.8	248.7	208.9	191.2
85°	223.7	226.6	231.0	232.5	197.2	138.2	94.2	106.0
87.5°	88.4	101.6	110.4	114.9	107.4	66.3	53.0	54.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)