

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: P268561

Luminaire Tested: **GAN-AF-06-LED-U-5MQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268561
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-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 32492.9 lumens
Efficiency: N/A
Efficacy: 97.6 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

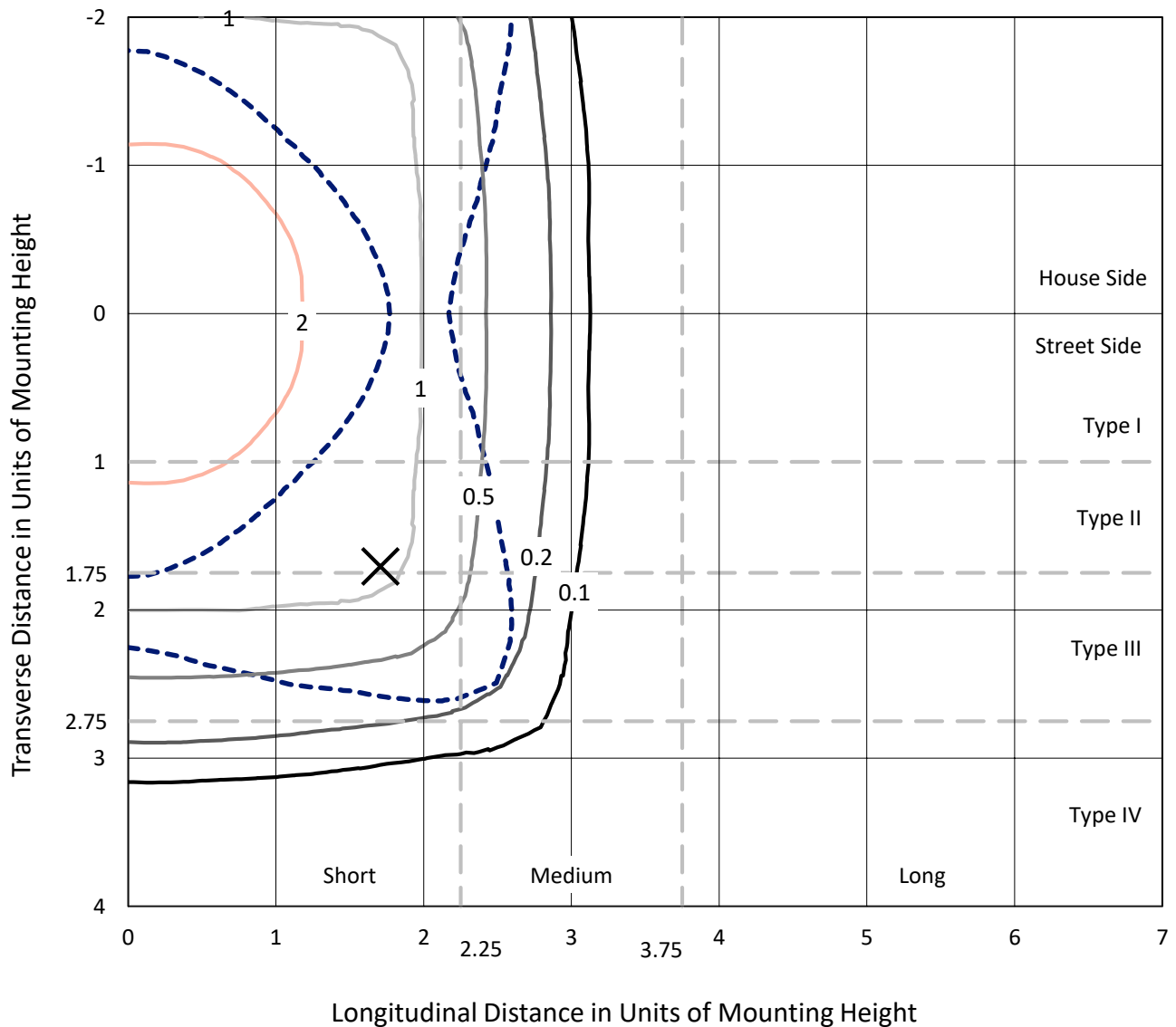
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

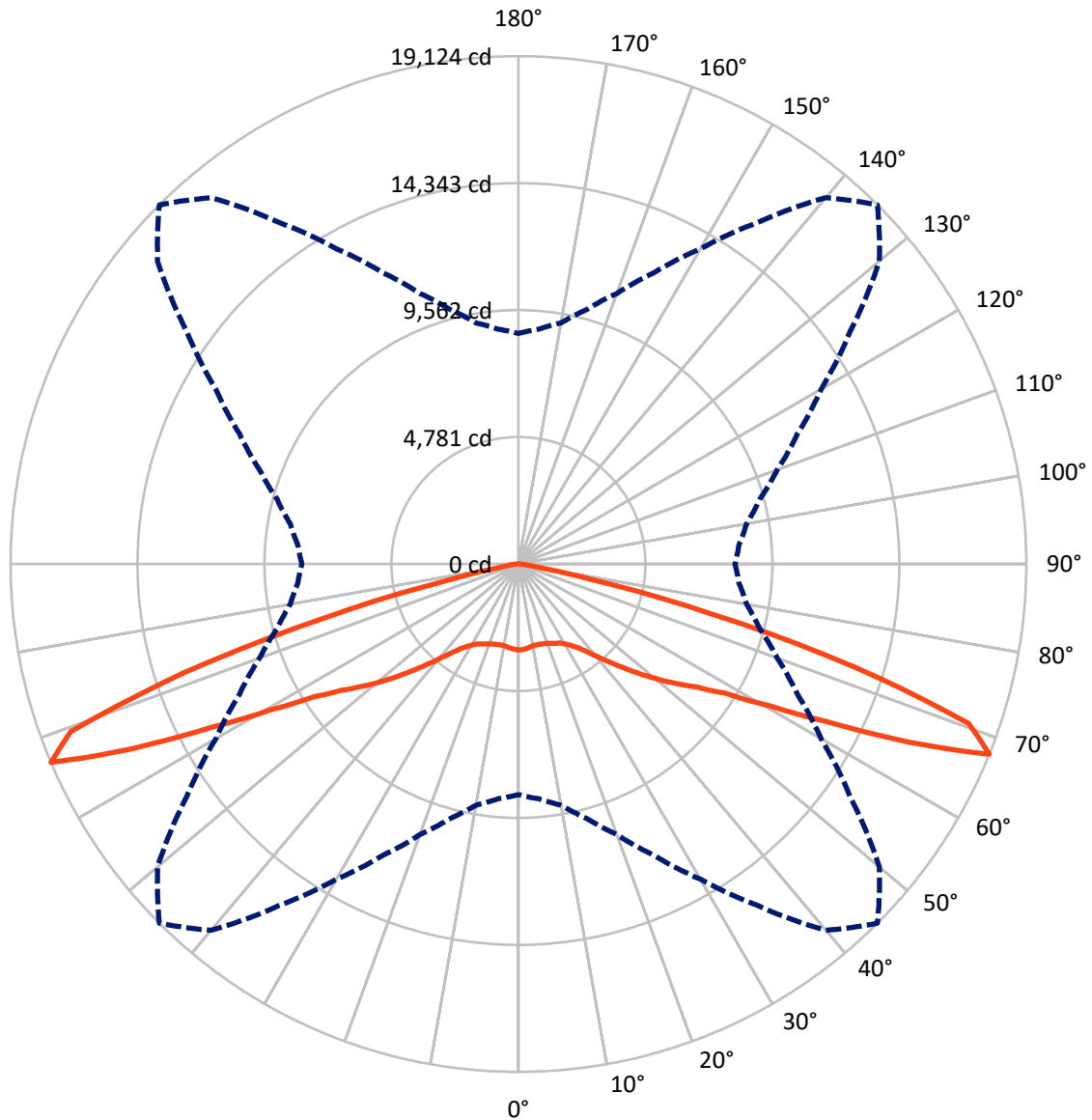
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.6 fc
 Type V - Short - 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	16246.5	0.0	16246.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16246.5	0.0	16246.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	32492.9	0.0	32492.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.1	0.9
10°-20°	879.4	2.7
20°-30°	1495.0	4.6
30°-40°	2443.9	7.5
40°-50°	4362.8	13.4
50°-60°	7355.9	22.6
60°-70°	11415.2	35.1
70°-80°	4010.8	12.3
80°-90°	226.7	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°	32492.9	100.0
0°-180°	32492.9	100.0



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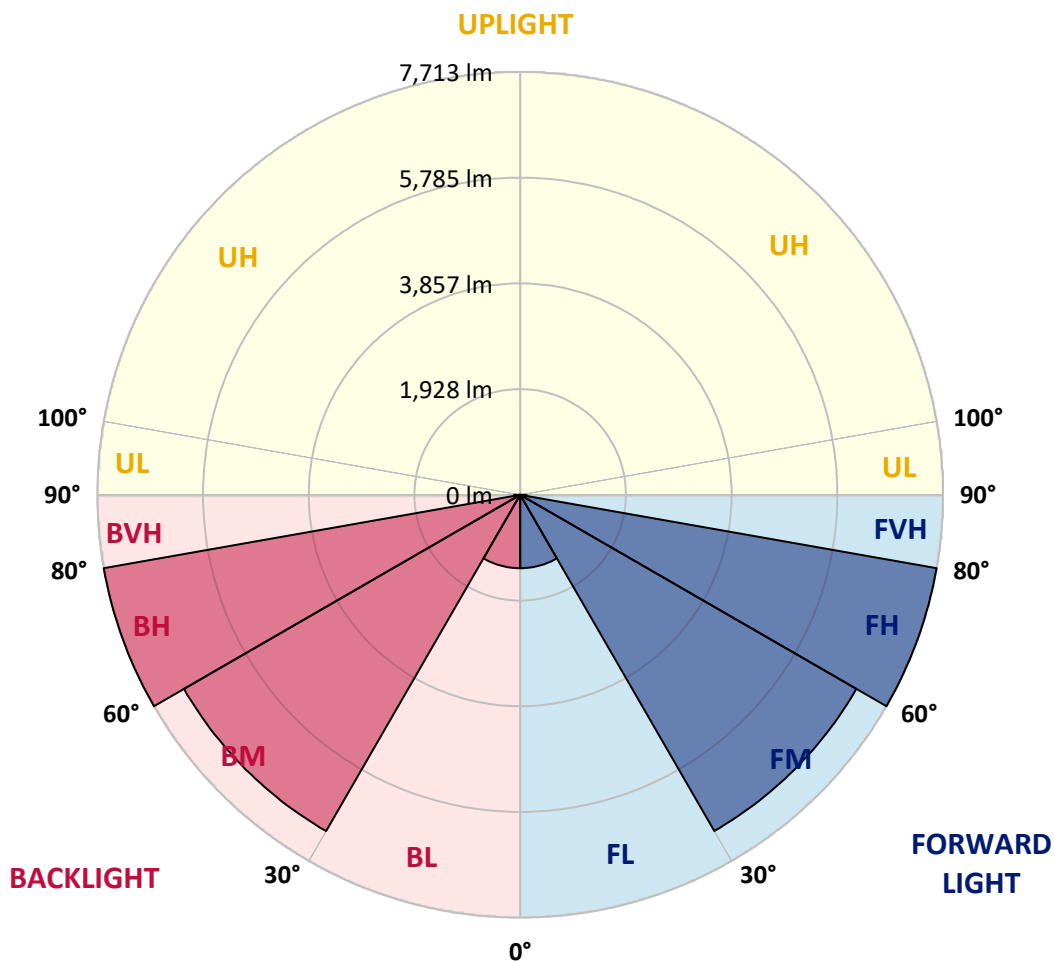
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1338.8	4.1			
FM	(30°-60°)	7081.3	21.8			
FH	(60°-80°)	7713.0	23.7			G4/12000
FVH	(80°-90°)	113.3	0.3			G2/225
BL	(0°-30°)	1338.8	4.1	B3/2500		
BM	(30°-60°)	7081.3	21.8	B4/8500		
BH	(60°-80°)	7713.0	23.7	B5		G4/12000
BVH	(80°-90°)	113.3	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°	3238.1	3238.1	3238.1	3238.1	3238.1	3238.1	3238.1	3238.1	3238.1	3238.1	3238.1
2.5°	3226.2	3229.0	3229.0	3229.0	3227.6	3227.6	3224.6	3227.6	3226.2	3221.6	3223.1
5°	3199.3	3202.2	3202.2	3200.8	3205.2	3203.6	3199.3	3202.2	3200.8	3197.6	3199.3
7.5°	3160.3	3164.9	3164.9	3163.3	3167.9	3166.3	3163.3	3164.9	3164.9	3160.3	3160.3
10°	3116.9	3120.1	3120.1	3118.6	3126.0	3126.0	3124.5	3128.9	3130.5	3126.0	3123.0
12.5°	3076.7	3081.1	3081.1	3087.1	3094.7	3097.5	3105.1	3111.0	3116.9	3115.5	3109.6
15°	3052.8	3055.8	3061.8	3069.1	3081.1	3091.6	3103.6	3116.9	3128.9	3132.0	3123.0
17.5°	3037.8	3042.3	3051.3	3061.8	3078.2	3096.1	3114.1	3132.0	3148.4	3154.4	3143.9
20°	3033.3	3036.4	3045.3	3063.2	3085.7	3112.5	3137.9	3158.9	3181.3	3188.8	3181.3
22.5°	3042.3	3048.3	3058.8	3079.7	3109.6	3143.9	3173.8	3202.2	3230.6	3244.0	3233.5
25°	3082.7	3088.6	3102.0	3128.9	3161.9	3197.6	3232.1	3265.0	3290.3	3303.7	3296.3
27.5°	3157.4	3164.9	3181.3	3208.1	3244.0	3282.9	3320.2	3347.2	3368.0	3372.5	3363.6
30°	3269.4	3285.9	3305.4	3335.1	3377.0	3409.8	3447.2	3471.2	3496.6	3496.6	3489.0
32.5°	3444.3	3460.7	3481.7	3509.9	3542.8	3578.8	3611.6	3632.6	3659.4	3661.0	3642.9
35°	3705.8	3713.2	3731.2	3749.0	3779.0	3810.4	3838.7	3852.2	3874.6	3876.0	3859.7
37.5°	4050.9	4052.4	4064.4	4070.4	4097.3	4131.7	4158.6	4167.4	4188.3	4185.5	4168.9
40°	4452.9	4460.4	4464.8	4473.7	4502.1	4535.1	4563.5	4567.9	4590.3	4585.8	4564.9
42.5°	4917.6	4920.6	4946.0	4959.5	4986.3	5002.8	5038.7	5043.2	5070.0	5058.0	5034.1
45°	5439.1	5465.9	5489.9	5516.9	5545.1	5564.6	5592.9	5587.0	5605.0	5587.0	5573.5
47.5°	5987.6	6007.0	6060.8	6102.5	6148.9	6165.2	6205.6	6187.7	6205.6	6180.2	6175.8
50°	6591.1	6625.5	6671.8	6719.7	6769.0	6795.9	6848.1	6825.9	6849.7	6825.9	6812.3
52.5°	7185.9	7194.9	7296.5	7366.7	7435.5	7466.8	7498.2	7487.7	7489.2	7487.7	7474.3
55°	7750.8	7771.6	7873.3	7968.9	8088.3	8176.6	8230.5	8224.4	8211.0	8197.6	8175.0
57.5°	8387.3	8408.1	8524.7	8642.9	8778.7	8904.3	9013.4	9125.4	9168.8	9180.7	9131.5
60°	9248.1	9246.4	9401.9	9545.3	9739.6	9926.4	10165.4	10409.0	10688.5	10818.4	10646.6
62.5°	10123.5	10159.4	10383.6	10637.5	11038.1	11428.1	11868.9	12302.2	12744.6	13104.7	12722.2
65°	10018.9	10156.4	10489.7	11065.1	11804.6	12683.3	13633.5	14639.3	15547.8	16172.4	15471.6
67.5°	8683.1	8878.8	9218.0	9917.4	10842.4	12109.4	13705.4	15694.2	18005.7	19123.5	17738.3
70°	6293.9	6515.0	6870.5	7553.5	8469.5	9673.8	11407.1	13795.0	16855.3	17981.9	16456.3
72.5°	3132.0	3251.5	3471.2	3906.0	4599.3	5576.6	7148.5	9443.7	12151.4	13185.3	11791.2
75°	1064.0	1119.2	1156.6	1298.5	1518.1	1902.3	2683.6	4128.6	6298.2	7550.4	6208.6
77.5°	614.1	615.7	641.0	666.5	703.8	745.7	850.2	1116.2	1930.5	2741.9	1997.8
80°	397.5	396.0	417.0	436.3	461.6	482.7	488.6	517.1	596.3	706.7	632.0
82.5°	206.3	231.7	277.9	303.4	351.1	360.1	348.2	337.8	357.2	370.6	379.5
85°	113.5	98.6	148.0	191.2	212.2	215.1	215.1	203.2	210.7	206.3	224.1
87.5°	52.3	47.8	58.3	94.1	100.2	85.2	89.7	79.2	56.9	55.2	62.7
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°	3238.1	3238.1	3238.1	3238.1	3238.1	3238.1	3238.1	3238.1
2.5°	3223.1	3224.6	3224.6	3229.0	3230.6	3233.5	3236.6	3238.1
5°	3197.6	3202.2	3199.3	3203.6	3203.6	3206.7	3206.7	3208.1
7.5°	3160.3	3164.9	3164.9	3164.9	3163.3	3167.9	3167.9	3167.9
10°	3121.5	3124.5	3123.0	3120.1	3116.9	3121.5	3120.1	3118.6
12.5°	3109.6	3102.0	3096.1	3093.1	3087.1	3088.6	3084.2	3084.2
15°	3116.9	3103.6	3093.1	3088.6	3082.7	3079.7	3076.7	3078.2
17.5°	3136.4	3120.1	3106.6	3099.2	3091.6	3087.1	3081.1	3082.7
20°	3170.7	3151.4	3132.0	3116.9	3103.6	3096.1	3091.6	3090.1
22.5°	3221.6	3193.2	3164.9	3142.5	3124.5	3114.1	3109.6	3106.6
25°	3279.9	3248.5	3215.7	3190.2	3172.4	3158.9	3149.8	3149.8
27.5°	3353.2	3327.7	3297.9	3267.9	3251.5	3238.1	3232.1	3229.0
30°	3475.6	3451.7	3427.8	3399.5	3378.5	3365.1	3354.6	3345.6
32.5°	3632.6	3613.2	3593.7	3572.7	3553.3	3535.4	3519.0	3511.6
35°	3853.6	3838.7	3825.3	3801.4	3793.9	3783.4	3774.5	3767.0
37.5°	4158.6	4152.5	4152.5	4127.2	4121.2	4116.8	4107.7	4109.1
40°	4559.0	4564.9	4557.6	4548.5	4544.0	4532.0	4532.0	4542.5
42.5°	5032.7	5037.2	5053.5	5038.7	5055.1	5040.1	5031.1	5038.7
45°	5582.5	5599.0	5631.8	5616.9	5627.4	5602.0	5570.6	5572.0
47.5°	6199.7	6214.7	6228.0	6217.6	6219.1	6177.3	6135.5	6125.0
50°	6840.8	6846.7	6854.2	6839.2	6842.2	6795.9	6748.1	6749.5
52.5°	7474.3	7502.6	7532.6	7492.3	7483.2	7431.0	7363.6	7336.7
55°	8199.0	8239.3	8204.9	8134.7	8064.5	7994.2	7906.2	7891.3
57.5°	9092.6	9023.8	8916.2	8783.3	8686.2	8587.4	8497.8	8460.4
60°	10335.8	10077.2	9883.1	9685.7	9561.7	9440.6	9322.7	9304.7
62.5°	12093.1	11646.3	11259.3	10851.3	10518.1	10258.0	10050.3	9992.0
65°	14295.5	13239.1	12323.2	11468.4	10725.9	10165.4	9812.7	9657.4
67.5°	15242.9	13156.9	11586.5	10373.2	9401.9	8723.5	8342.4	8152.7
70°	13394.5	10911.1	9203.1	7988.3	7103.6	6380.5	6035.4	5832.1
72.5°	9215.2	6940.8	5488.5	4479.8	3773.1	3167.9	2928.7	2910.8
75°	4137.7	2740.5	1888.7	1455.4	1225.3	1065.4	1016.2	978.8
77.5°	1158.0	856.3	763.6	714.2	666.5	611.1	590.2	594.7
80°	563.3	531.9	511.0	479.6	436.3	390.0	369.1	378.0
82.5°	373.5	369.1	382.5	360.1	297.3	252.6	212.2	194.3
85°	227.1	230.1	234.5	236.1	200.2	140.4	95.6	107.5
87.5°	89.7	103.0	112.1	116.6	109.1	67.3	53.8	55.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)