

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: P267132

Luminaire Tested: **GAN-AF-08-LED-U-5WQ-7027-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P267132
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-08-LED-U-5WQ-7027-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43656.3 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 445
Input Voltage (V): NR
Input Current (A_{in}): 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

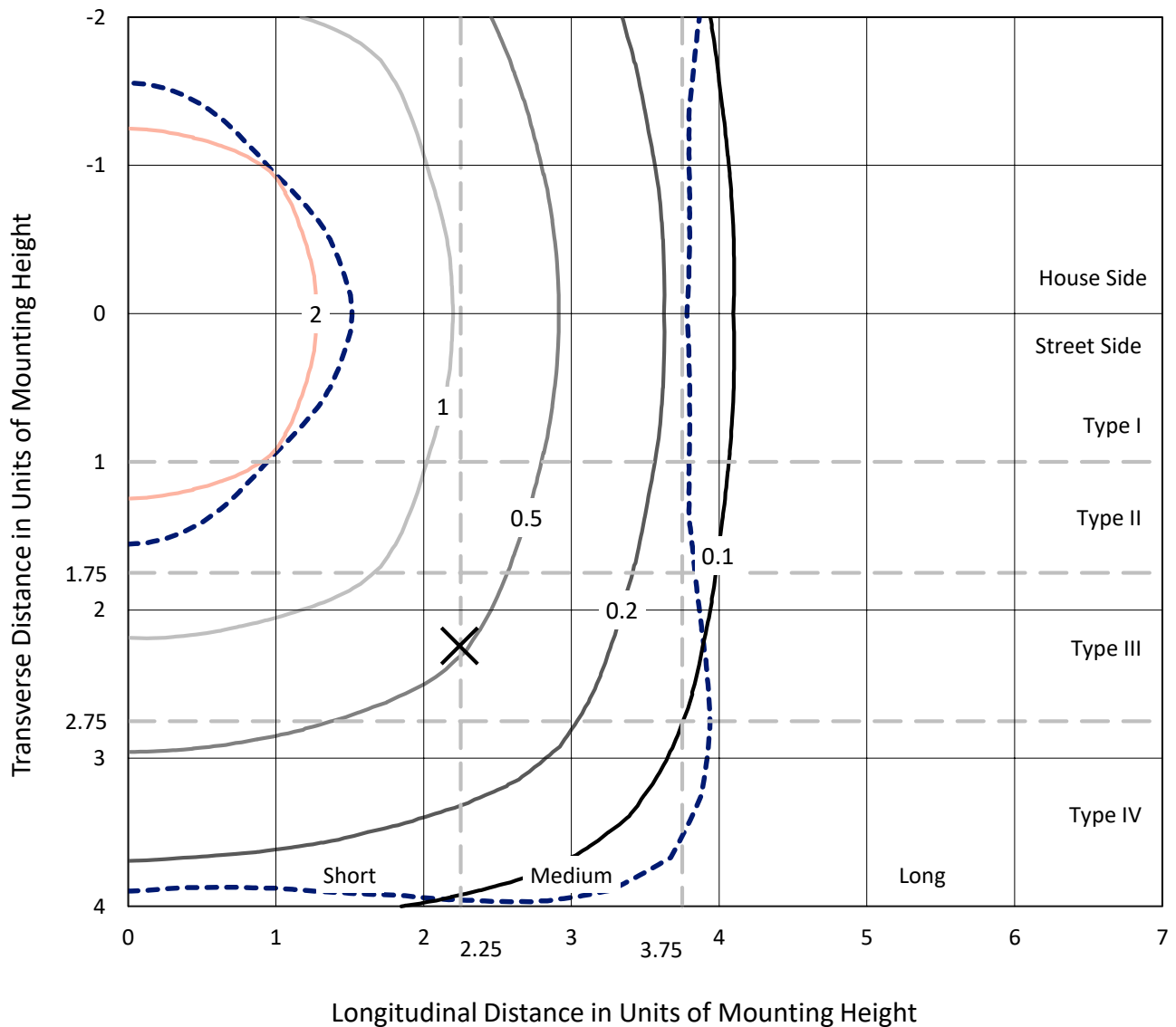


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

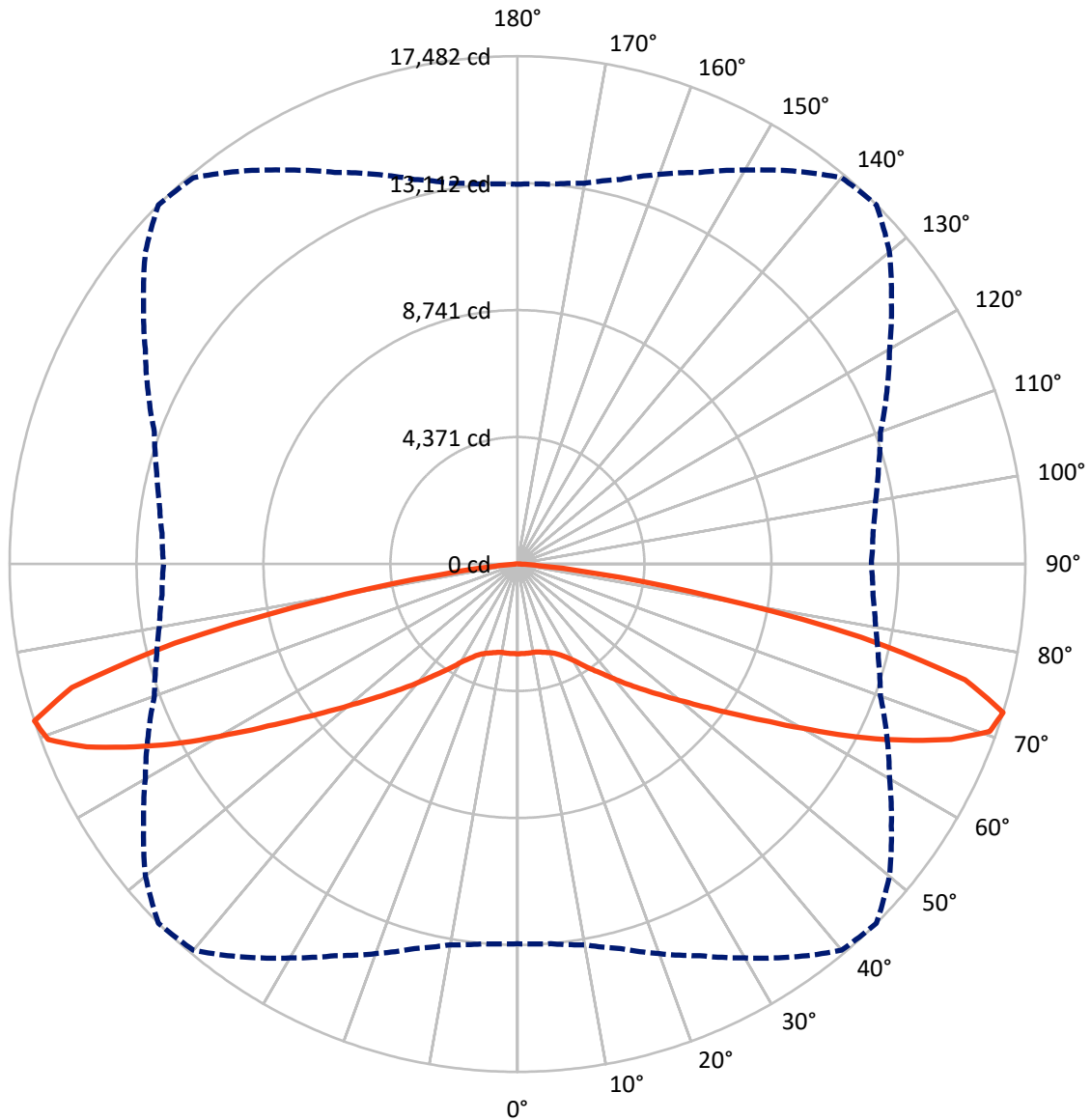


Based on 30 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - Semi-Cutoff

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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	21828.2	0.0	21828.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21828.2	0.0	21828.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	43656.3	0.0	43656.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.2	0.7
10°-20°	896.6	2.1
20°-30°	1638.4	3.8
30°-40°	2824.9	6.5
40°-50°	4829.2	11.1
50°-60°	7827.4	17.9
60°-70°	12985.4	29.7
70°-80°	11437.1	26.2
80°-90°	922.1	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°	43656.3	100.0
0°-180°	43656.3	100.0



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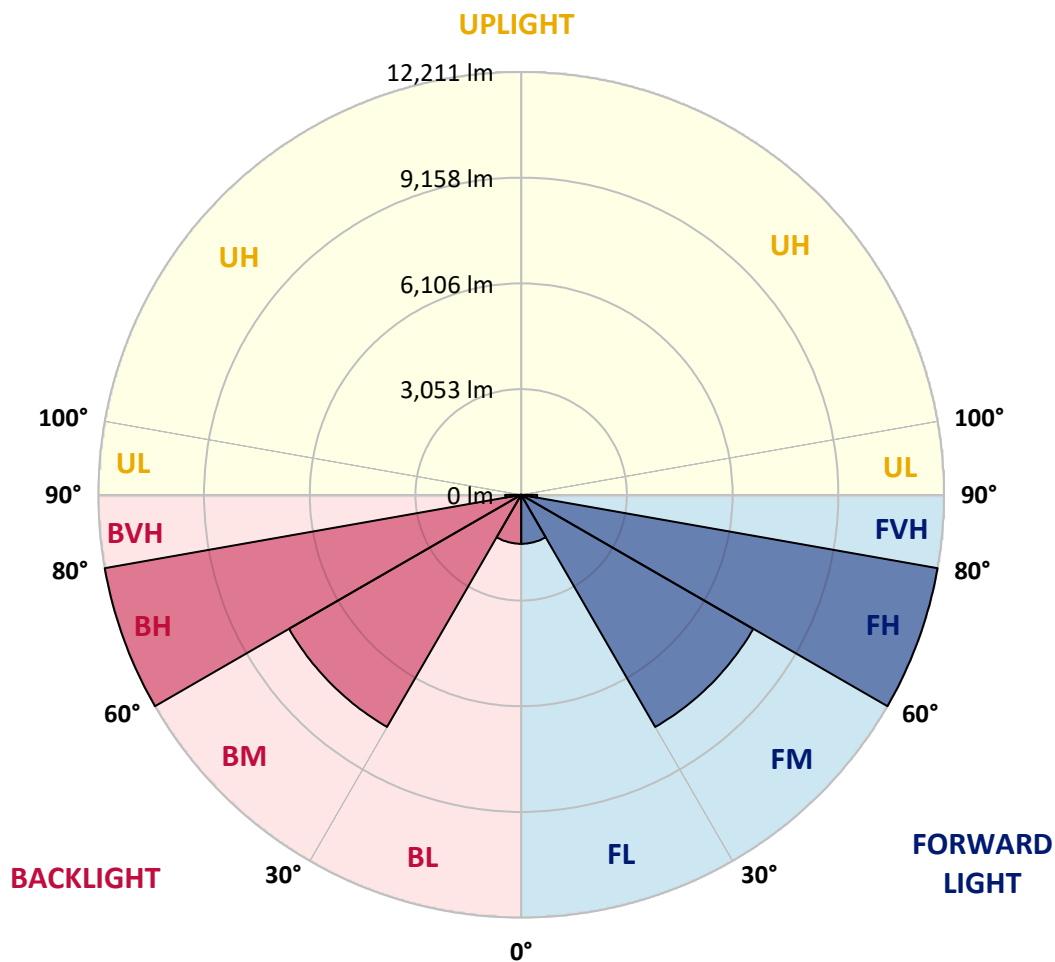
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1415.1	3.2			
FM	(30°-60°)	7740.7	17.7			
FH	(60°-80°)	12211.3	28.0			G5
FVH	(80°-90°)	461.1	1.1			G3/500
BL	(0°-30°)	1415.1	3.2	B3/2500		
BM	(30°-60°)	7740.7	17.7	B4/8500		
BH	(60°-80°)	12211.3	28.0	B5		G5
BVH	(80°-90°)	461.1	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°	3091.5	3091.5	3091.5	3091.5	3091.5	3091.5	3091.5	3091.5	3091.5	3091.5	3091.5
2.5°	3091.5	3093.6	3095.6	3093.6	3093.6	3091.5	3089.5	3091.5	3089.5	3085.6	3087.6
5°	3101.6	3105.6	3105.6	3101.6	3103.6	3101.6	3097.5	3099.5	3095.6	3089.5	3089.5
7.5°	3113.5	3115.6	3115.6	3111.5	3113.5	3109.6	3105.6	3103.6	3099.5	3091.5	3085.6
10°	3131.6	3133.6	3131.6	3127.5	3127.5	3121.6	3111.5	3107.5	3099.5	3087.6	3081.5
12.5°	3151.7	3153.6	3151.7	3147.7	3145.7	3135.7	3127.5	3121.6	3115.6	3105.6	3095.6
15°	3179.6	3183.7	3179.6	3171.6	3165.6	3157.6	3153.6	3155.7	3157.6	3149.5	3139.5
17.5°	3231.7	3233.7	3227.7	3209.6	3201.6	3193.7	3193.7	3197.6	3203.6	3199.7	3189.6
20°	3327.9	3321.8	3307.7	3285.8	3275.8	3261.7	3259.7	3261.7	3261.7	3259.7	3251.8
22.5°	3448.0	3443.9	3426.0	3397.8	3383.8	3375.9	3363.9	3353.8	3351.8	3345.8	3337.8
25°	3592.1	3590.2	3568.1	3544.1	3534.0	3524.1	3514.0	3500.1	3487.9	3473.9	3466.0
27.5°	3776.4	3768.3	3736.3	3724.3	3710.3	3704.3	3690.2	3674.2	3664.1	3646.2	3636.2
30°	3978.6	3978.6	3952.5	3948.5	3948.5	3934.4	3918.4	3890.5	3872.5	3854.4	3848.3
32.5°	4180.8	4182.8	4156.7	4164.8	4170.8	4180.8	4184.8	4174.9	4162.7	4160.8	4148.7
35°	4473.1	4465.1	4439.1	4445.2	4443.0	4441.1	4441.1	4463.0	4467.1	4471.1	4447.1
37.5°	4835.5	4835.5	4809.5	4809.5	4797.5	4785.5	4769.6	4783.5	4805.6	4811.5	4795.5
40°	5250.1	5264.1	5232.0	5230.0	5234.1	5195.9	5177.9	5200.0	5214.0	5237.9	5220.1
42.5°	5738.6	5728.6	5696.5	5692.5	5670.6	5658.6	5642.4	5660.5	5682.5	5698.6	5704.5
45°	6207.1	6199.2	6163.0	6163.0	6141.1	6131.0	6139.0	6169.1	6179.1	6201.1	6223.2
47.5°	6669.6	6659.7	6635.6	6645.7	6647.5	6665.7	6691.7	6719.7	6747.8	6777.8	6787.9
50°	7142.2	7144.2	7118.2	7142.2	7172.2	7222.3	7292.4	7338.4	7396.5	7434.6	7446.5
52.5°	7572.7	7580.6	7608.7	7664.8	7724.9	7823.0	7943.2	8055.2	8151.3	8215.4	8211.3
55°	8089.2	8101.3	8169.4	8265.5	8363.6	8511.8	8689.9	8888.2	9048.4	9140.4	9082.5
57.5°	8750.0	8776.0	8852.2	8982.3	9128.4	9320.6	9565.0	9863.3	10111.6	10235.7	10141.7
60°	9657.0	9673.0	9765.1	9909.4	10085.6	10323.9	10650.2	11050.7	11401.1	11565.3	11457.2
62.5°	10852.5	10882.4	10956.5	11102.7	11282.9	11553.2	11951.7	12452.2	12888.8	13117.1	12872.7
65°	12280.1	12376.2	12438.2	12586.4	12754.7	13041.0	13457.4	13994.1	14462.6	14612.8	14330.4
67.5°	13693.8	13777.8	13885.9	14056.0	14226.3	14548.7	14935.1	15455.7	15970.2	16106.5	15668.0
70°	14312.4	14360.5	14528.6	14760.9	15087.4	15467.7	15914.3	16498.9	17135.7	17247.7	16691.1
72.5°	13072.9	13121.1	13309.3	13703.7	14272.5	14877.1	15655.9	16514.9	17356.0	17482.0	16715.1
75°	9887.4	9809.2	10087.5	10610.2	11377.0	12220.1	13309.3	14540.7	15756.0	15914.3	14999.2
77.5°	5109.9	5099.9	5310.2	5958.8	6873.9	7833.0	9032.4	10423.9	11613.3	12093.8	11348.9
80°	1439.7	1455.7	1555.8	1878.1	2412.8	3105.6	4042.6	5346.2	6319.2	6815.8	6399.3
82.5°	564.7	608.7	646.7	706.7	776.9	879.0	1173.4	1745.9	2342.7	2799.2	2292.7
85°	202.2	216.2	306.3	362.5	368.5	388.4	442.5	516.5	622.7	742.9	610.7
87.5°	76.0	84.1	98.2	162.1	160.2	146.2	178.3	186.2	140.1	128.2	158.2
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°	3091.5	3091.5	3091.5	3091.5	3091.5	3091.5	3091.5	3091.5
2.5°	3083.5	3085.6	3085.6	3087.6	3089.5	3089.5	3093.6	3093.6
5°	3085.6	3085.6	3081.5	3083.5	3081.5	3081.5	3083.5	3083.5
7.5°	3081.5	3079.5	3075.5	3073.6	3069.5	3069.5	3069.5	3069.5
10°	3075.5	3073.6	3069.5	3067.5	3065.6	3065.6	3065.6	3065.6
12.5°	3091.5	3085.6	3081.5	3079.5	3079.5	3079.5	3079.5	3079.5
15°	3133.6	3119.5	3109.6	3109.6	3111.5	3115.6	3115.6	3119.5
17.5°	3185.7	3169.6	3159.6	3151.7	3155.7	3161.7	3165.6	3169.6
20°	3247.7	3239.6	3225.8	3217.6	3217.6	3225.8	3229.6	3231.7
22.5°	3333.8	3327.9	3321.8	3311.8	3311.8	3315.9	3323.8	3323.8
25°	3462.0	3457.9	3454.0	3446.0	3443.9	3443.9	3448.0	3451.9
27.5°	3622.1	3624.1	3620.2	3618.2	3612.2	3610.2	3616.1	3614.2
30°	3836.4	3846.5	3856.5	3848.3	3838.4	3832.3	3826.4	3818.3
32.5°	4126.8	4114.7	4106.7	4092.7	4074.7	4058.6	4046.7	4032.6
35°	4401.1	4381.0	4372.9	4385.0	4383.0	4372.9	4358.9	4347.0
37.5°	4737.4	4733.3	4737.4	4759.5	4755.4	4765.5	4737.4	4735.4
40°	5161.9	5166.0	5194.0	5220.1	5234.1	5248.0	5232.0	5216.0
42.5°	5654.6	5652.4	5662.5	5698.6	5722.6	5738.6	5704.5	5700.6
45°	6175.0	6161.0	6169.1	6199.2	6223.2	6241.2	6203.2	6203.2
47.5°	6747.8	6723.8	6697.7	6731.7	6745.7	6757.8	6727.8	6717.6
50°	7386.5	7336.4	7280.4	7294.3	7294.3	7290.4	7252.2	7250.3
52.5°	8119.3	8027.3	7925.0	7887.1	7865.0	7840.9	7774.9	7742.9
55°	8962.3	8824.1	8664.0	8565.8	8513.7	8447.8	8337.6	8307.5
57.5°	9947.4	9731.2	9454.8	9334.6	9218.5	9110.4	8988.4	8954.2
60°	11114.8	10796.4	10430.0	10207.7	10081.6	9977.5	9851.4	9845.2
62.5°	12416.3	11913.6	11499.2	11298.9	11206.9	11114.8	10994.5	11010.6
65°	13739.8	13215.1	12826.7	12664.6	12578.3	12502.3	12382.1	12400.3
67.5°	15045.3	14562.8	14136.2	13970.0	13874.0	13777.8	13669.7	13687.7
70°	15982.4	15383.7	14903.2	14534.7	14304.4	14044.1	13875.8	13833.9
72.5°	15714.1	14791.0	14028.1	13297.3	12868.8	12520.3	12284.1	12181.9
75°	13599.6	12338.1	11357.0	10460.0	9955.5	9544.9	9246.7	9060.3
77.5°	10099.6	8681.9	7522.6	6489.4	5672.4	5123.9	4737.4	4487.2
80°	5528.3	4204.8	3073.6	2160.5	1587.8	1319.5	1165.3	1091.3
82.5°	1722.1	1111.3	819.0	706.7	656.8	628.8	582.7	508.6
85°	548.7	480.6	446.5	426.4	406.5	354.4	244.2	222.2
87.5°	212.2	218.3	216.2	204.3	208.2	150.1	120.2	106.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)