

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: P191695

Luminaire Tested: **GAN-AF-07-LED-U-5WQ-7050-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191695
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-07-LED-U-5WQ-7050-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 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: 44347 lumens
Efficiency: N/A
Efficacy: 113.4 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

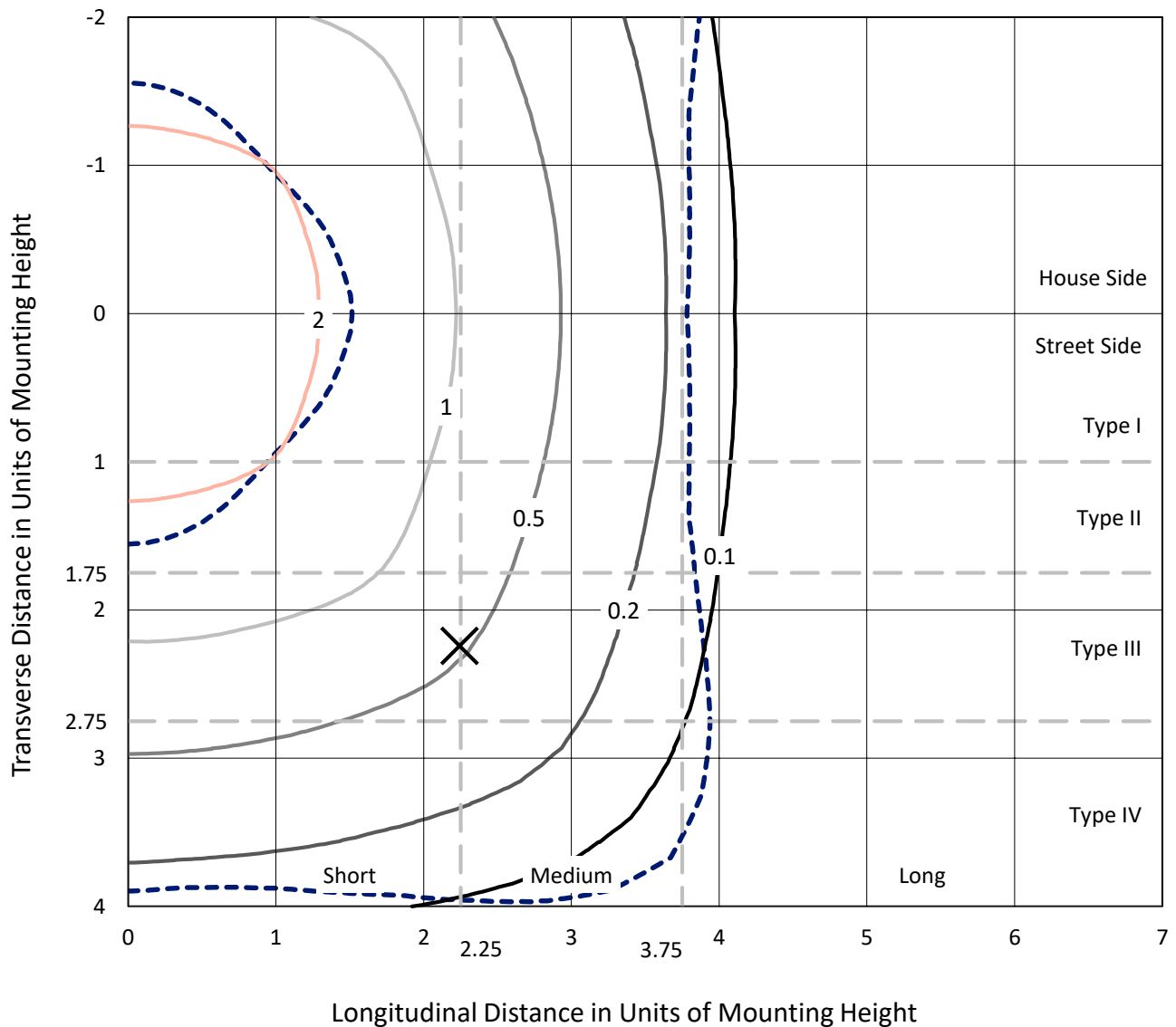
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

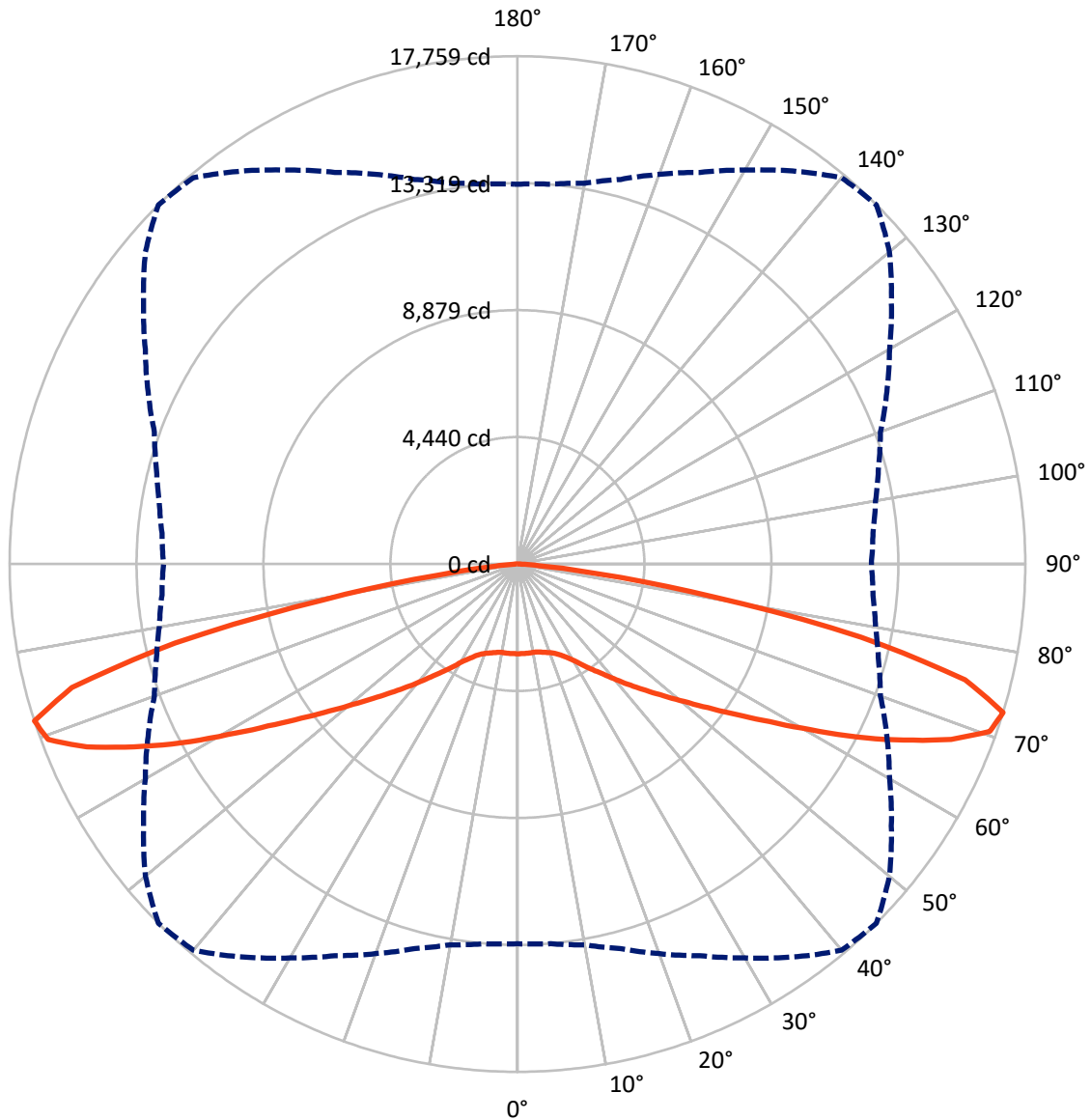


Based on 30 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - Semi-Cutoff

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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	22173.5	0.0	22173.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22173.5	0.0	22173.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	44347.0	0.0	44347.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.9	0.7
10°-20°	910.8	2.1
20°-30°	1664.3	3.8
30°-40°	2869.6	6.5
40°-50°	4905.5	11.1
50°-60°	7951.3	17.9
60°-70°	13190.9	29.7
70°-80°	11618.0	26.2
80°-90°	936.7	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°	44347.0	100.0
0°-180°	44347.0	100.0



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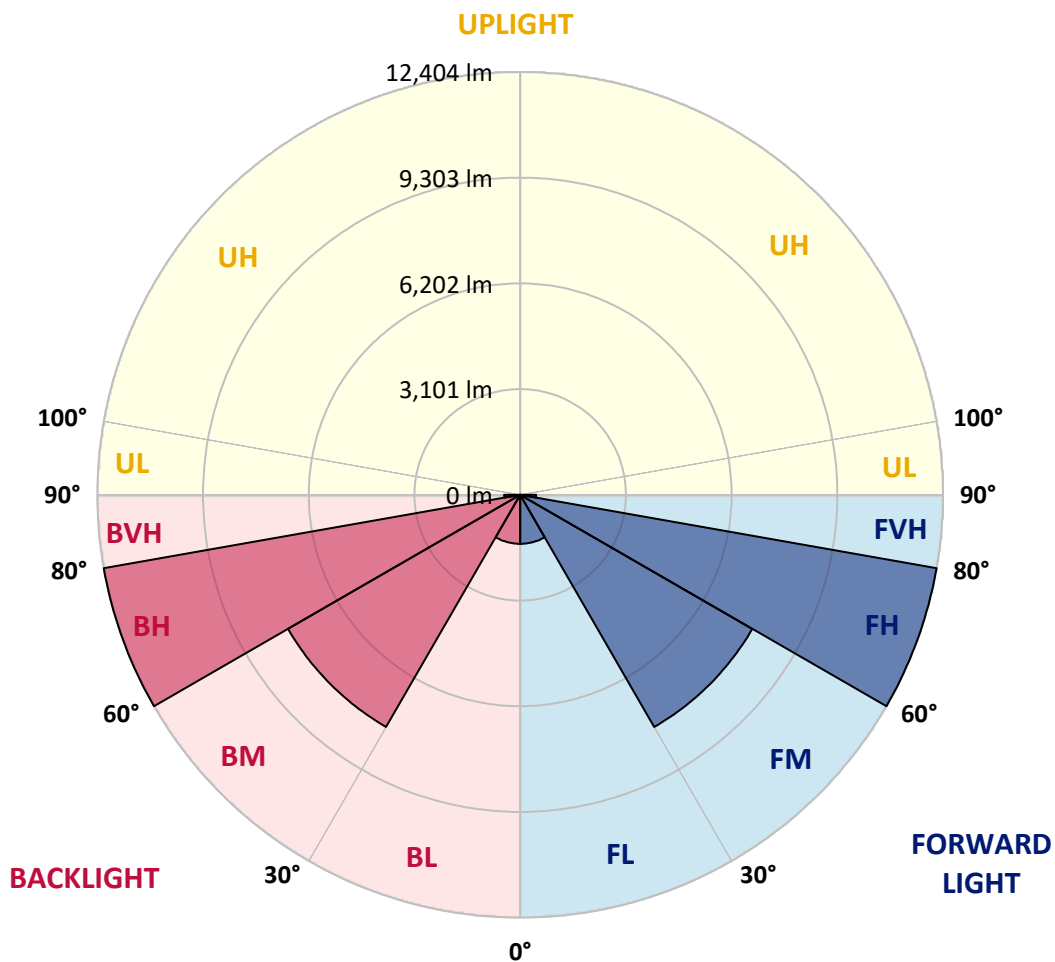
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1437.5	3.2			
FM	(30°-60°)	7863.2	17.7			
FH	(60°-80°)	12404.4	28.0			G5
FVH	(80°-90°)	468.4	1.1			G3/500
BL	(0°-30°)	1437.5	3.2	B3/2500		
BM	(30°-60°)	7863.2	17.7	B4/8500		
BH	(60°-80°)	12404.4	28.0	B5		G5
BVH	(80°-90°)	468.4	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°	3140.5	3140.5	3140.5	3140.5	3140.5	3140.5	3140.5	3140.5	3140.5	3140.5	3140.5
2.5°	3140.5	3142.5	3144.5	3142.5	3142.5	3140.5	3138.4	3140.5	3138.4	3134.4	3136.4
5°	3150.6	3154.7	3154.7	3150.6	3152.7	3150.6	3146.6	3148.6	3144.5	3138.4	3138.4
7.5°	3162.8	3164.9	3164.9	3160.8	3162.8	3158.8	3154.7	3152.7	3148.6	3140.5	3134.4
10°	3181.1	3183.2	3181.1	3177.1	3177.1	3171.0	3160.8	3156.7	3148.6	3136.4	3130.3
12.5°	3201.5	3203.5	3201.5	3197.4	3195.4	3185.2	3177.1	3171.0	3164.9	3154.7	3144.5
15°	3230.0	3234.0	3230.0	3221.8	3215.7	3207.6	3203.5	3205.5	3207.6	3199.4	3189.3
17.5°	3282.8	3284.9	3278.8	3260.5	3252.3	3244.2	3244.2	3248.3	3254.4	3250.3	3240.1
20°	3380.5	3374.4	3360.1	3337.8	3327.6	3313.3	3311.3	3313.3	3313.3	3311.3	3303.2
22.5°	3502.5	3498.4	3480.1	3451.7	3437.4	3429.3	3417.1	3406.9	3404.9	3398.8	3390.6
25°	3649.0	3646.9	3624.5	3600.1	3590.0	3579.8	3569.6	3555.4	3543.2	3528.9	3520.8
27.5°	3836.1	3827.9	3795.4	3783.2	3769.0	3762.9	3748.6	3732.3	3722.2	3703.9	3693.7
30°	4041.5	4041.5	4015.1	4011.0	4011.0	3996.8	3980.5	3952.0	3933.7	3915.4	3909.3
32.5°	4246.9	4249.0	4222.5	4230.7	4236.8	4246.9	4251.0	4240.8	4228.6	4226.6	4214.4
35°	4543.9	4535.8	4509.3	4515.4	4513.4	4511.4	4511.4	4533.7	4537.8	4541.9	4517.5
37.5°	4912.0	4912.0	4885.6	4885.6	4873.4	4861.2	4844.9	4859.2	4881.5	4887.6	4871.4
40°	5333.1	5347.3	5314.8	5312.7	5316.8	5278.2	5259.9	5282.2	5296.5	5320.9	5302.6
42.5°	5829.4	5819.2	5786.7	5782.6	5760.2	5748.0	5731.7	5750.0	5772.4	5788.7	5794.8
45°	6305.3	6297.2	6260.6	6260.6	6238.2	6228.0	6236.2	6266.7	6276.8	6299.2	6321.6
47.5°	6775.2	6765.0	6740.6	6750.8	6752.8	6771.1	6797.5	6826.0	6854.5	6885.0	6895.2
50°	7255.2	7257.2	7230.8	7255.2	7285.7	7336.5	7407.7	7454.5	7513.5	7552.1	7564.4
52.5°	7692.5	7700.6	7729.1	7786.1	7847.1	7946.7	8068.8	8182.7	8280.3	8345.4	8341.3
55°	8217.3	8229.5	8298.6	8396.2	8495.9	8646.4	8827.4	9028.8	9191.5	9285.1	9226.1
57.5°	8888.5	8914.9	8992.2	9124.4	9272.9	9468.2	9716.3	10019.4	10271.6	10397.7	10302.1
60°	9809.9	9826.1	9919.7	10066.1	10245.1	10487.2	10818.7	11225.5	11581.5	11748.2	11638.4
62.5°	11024.1	11054.7	11129.9	11278.4	11461.4	11736.0	12140.8	12649.3	13092.7	13324.6	13076.4
65°	12474.4	12572.0	12635.0	12785.6	12956.4	13247.3	13670.3	14215.4	14691.4	14843.9	14557.2
67.5°	13910.4	13995.8	14105.6	14278.5	14451.4	14778.9	15171.4	15700.2	16223.0	16361.3	15915.8
70°	14538.8	14587.7	14758.5	14994.5	15326.0	15712.5	16166.0	16759.9	17406.8	17520.7	16955.2
72.5°	13279.8	13328.6	13519.8	13920.5	14498.2	15112.4	15903.6	16776.2	17630.5	17758.6	16979.6
75°	10043.8	9964.4	10247.2	10778.0	11557.0	12413.3	13519.8	14770.7	16005.3	16166.0	15236.5
77.5°	5190.7	5180.5	5394.1	6053.1	6982.6	7956.9	9175.3	10588.9	11797.1	12285.2	11528.6
80°	1462.4	1478.7	1580.4	1907.9	2450.9	3154.7	4106.6	5430.7	6419.2	6923.6	6500.6
82.5°	573.6	618.3	657.0	718.0	789.2	892.9	1191.9	1773.6	2379.8	2843.5	2328.9
85°	205.4	219.7	311.2	368.1	374.3	394.6	449.5	524.8	632.6	754.6	620.4
87.5°	77.3	85.4	99.7	164.8	162.7	148.5	181.0	189.2	142.4	130.2	160.7
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°	3140.5	3140.5	3140.5	3140.5	3140.5	3140.5	3140.5	3140.5
2.5°	3132.3	3134.4	3134.4	3136.4	3138.4	3138.4	3142.5	3142.5
5°	3134.4	3134.4	3130.3	3132.3	3130.3	3130.3	3132.3	3132.3
7.5°	3130.3	3128.3	3124.2	3122.2	3118.1	3118.1	3118.1	3118.1
10°	3124.2	3122.2	3118.1	3116.0	3114.0	3114.0	3114.0	3114.0
12.5°	3140.5	3134.4	3130.3	3128.3	3128.3	3128.3	3128.3	3128.3
15°	3183.2	3168.9	3158.8	3158.8	3160.8	3164.9	3164.9	3168.9
17.5°	3236.1	3219.8	3209.6	3201.5	3205.5	3211.6	3215.7	3219.8
20°	3299.1	3291.0	3276.7	3268.6	3268.6	3276.7	3280.8	3282.8
22.5°	3386.6	3380.5	3374.4	3364.2	3364.2	3368.3	3376.4	3376.4
25°	3516.7	3512.7	3508.6	3500.5	3498.4	3498.4	3502.5	3506.6
27.5°	3679.5	3681.5	3677.4	3675.4	3669.3	3667.3	3673.4	3671.3
30°	3897.1	3907.3	3917.4	3909.3	3899.1	3893.0	3886.9	3878.8
32.5°	4192.0	4179.8	4171.7	4157.4	4139.1	4122.9	4110.7	4096.4
35°	4470.7	4450.3	4442.2	4454.4	4452.4	4442.2	4428.0	4415.8
37.5°	4812.4	4808.3	4812.4	4834.8	4830.7	4840.9	4812.4	4810.3
40°	5243.6	5247.7	5276.1	5302.6	5316.8	5331.0	5314.8	5298.5
42.5°	5743.9	5741.9	5752.1	5788.7	5813.1	5829.4	5794.8	5790.7
45°	6272.8	6258.5	6266.7	6297.2	6321.6	6339.9	6301.3	6301.3
47.5°	6854.5	6830.1	6803.6	6838.2	6852.5	6864.7	6834.2	6824.0
50°	7503.3	7452.5	7395.5	7409.8	7409.8	7405.7	7367.1	7365.0
52.5°	8247.8	8154.2	8050.5	8011.8	7989.5	7965.0	7897.9	7865.4
55°	9104.1	8963.7	8801.0	8701.3	8648.5	8581.3	8469.5	8439.0
57.5°	10104.8	9885.1	9604.4	9482.4	9364.4	9254.6	9130.5	9095.9
60°	11290.6	10967.2	10595.0	10369.2	10241.1	10135.3	10007.2	10001.1
62.5°	12612.7	12102.1	11681.1	11477.7	11384.2	11290.6	11168.6	11184.8
65°	13957.1	13424.2	13029.6	12864.9	12777.4	12700.1	12578.1	12596.4
67.5°	15283.3	14793.1	14359.9	14191.0	14093.4	13995.8	13885.9	13904.2
70°	16235.2	15627.0	15138.9	14764.6	14530.7	14266.3	14095.4	14052.7
72.5°	15962.6	15025.0	14250.0	13507.6	13072.4	12718.4	12478.4	12374.7
75°	13814.8	12533.4	11536.7	10625.5	10112.9	9696.0	9392.9	9203.7
77.5°	10259.4	8819.3	7641.6	6592.1	5762.2	5204.9	4812.4	4558.1
80°	5615.8	4271.3	3122.2	2194.7	1612.9	1340.4	1183.8	1108.5
82.5°	1749.2	1128.9	831.9	718.0	667.1	638.7	591.9	516.6
85°	557.3	488.2	453.6	433.2	412.9	360.0	248.1	225.8
87.5°	215.6	221.7	219.7	207.5	211.5	152.5	122.0	107.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)