

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: P192545

Luminaire Tested: **GAN-AF-07-LED-U-5MQ-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192545
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-07-LED-U-5MQ-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34560.9 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G4

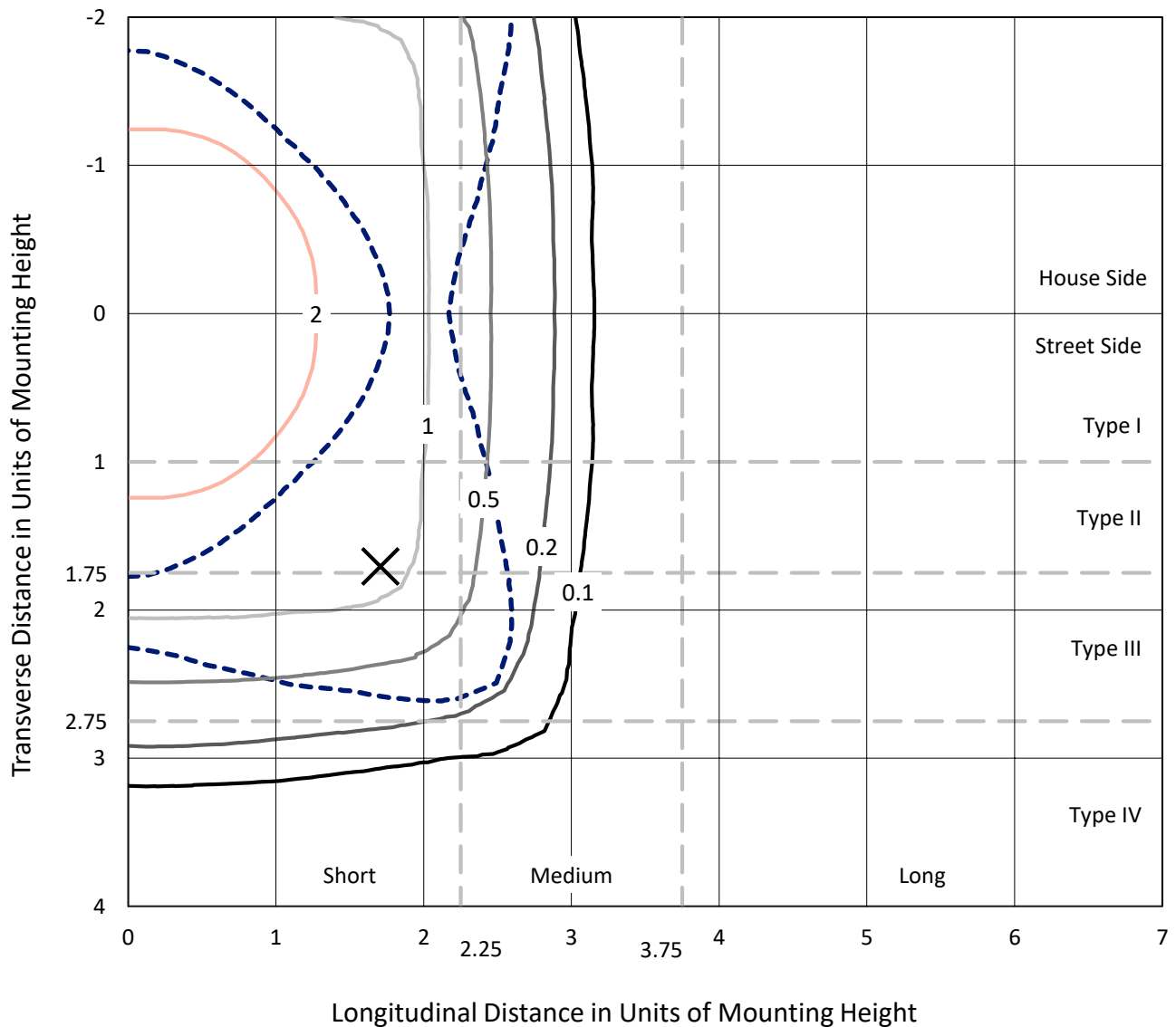
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P192545
 CATALOG NUMBER: GAN-AF-07-LED-U-5MQ-7030-800

Iso-Footcandle Lines of Horizontal Illumination

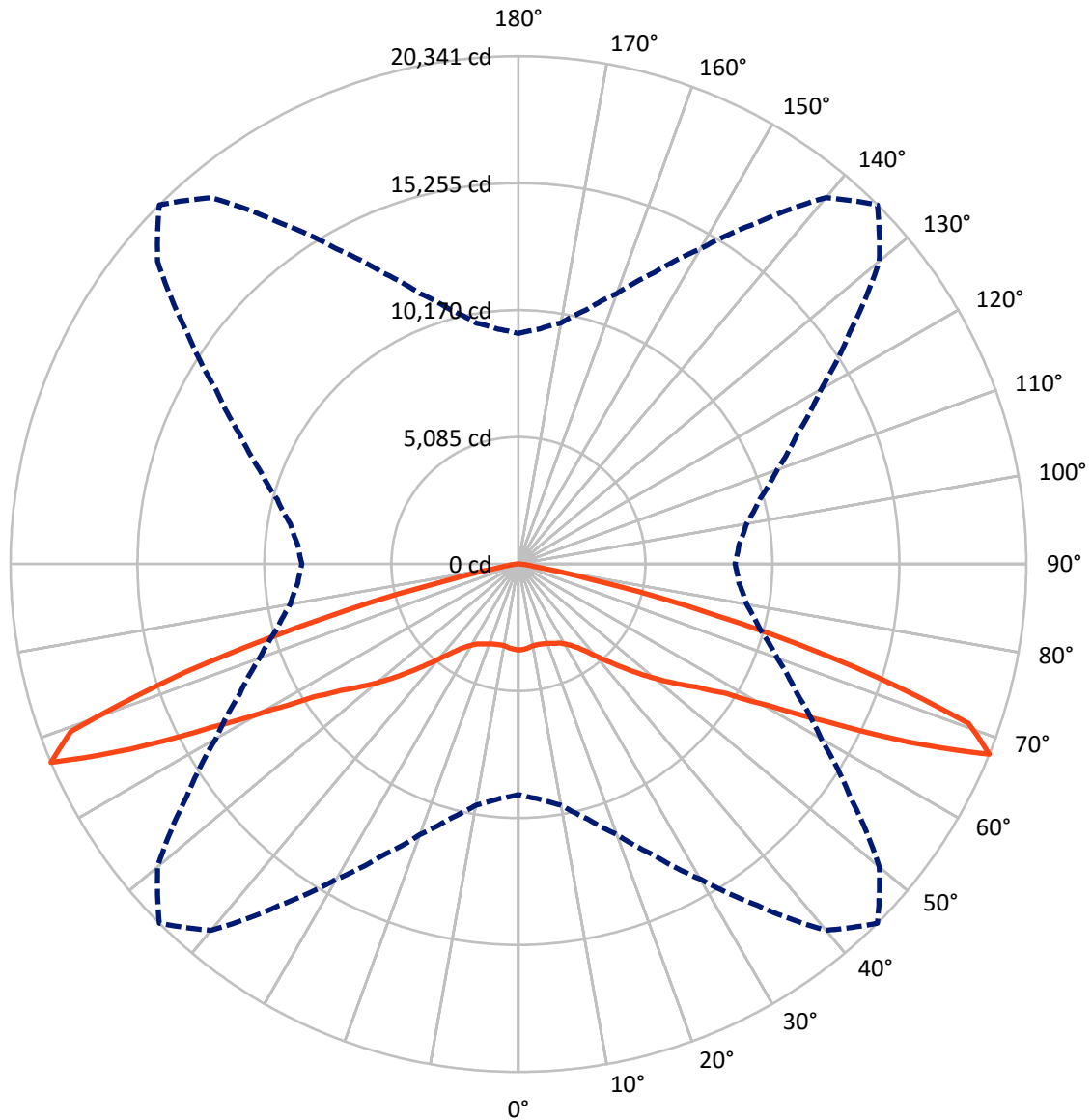
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P192545
CATALOG NUMBER: GAN-AF-07-LED-U-5MQ-7030-800

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



REPORT NUMBER: P192545

CATALOG NUMBER: GAN-AF-07-LED-U-5MQ-7030-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17280.5	0.0	17280.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17280.5	0.0	17280.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	34560.9	0.0	34560.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.4	0.9
10°-20°	935.4	2.7
20°-30°	1590.2	4.6
30°-40°	2599.5	7.5
40°-50°	4640.5	13.4
50°-60°	7824.0	22.6
60°-70°	12141.8	35.1
70°-80°	4266.1	12.3
80°-90°	241.1	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°	34560.9	100.0
0°-180°	34560.9	100.0



REPORT NUMBER: P192545

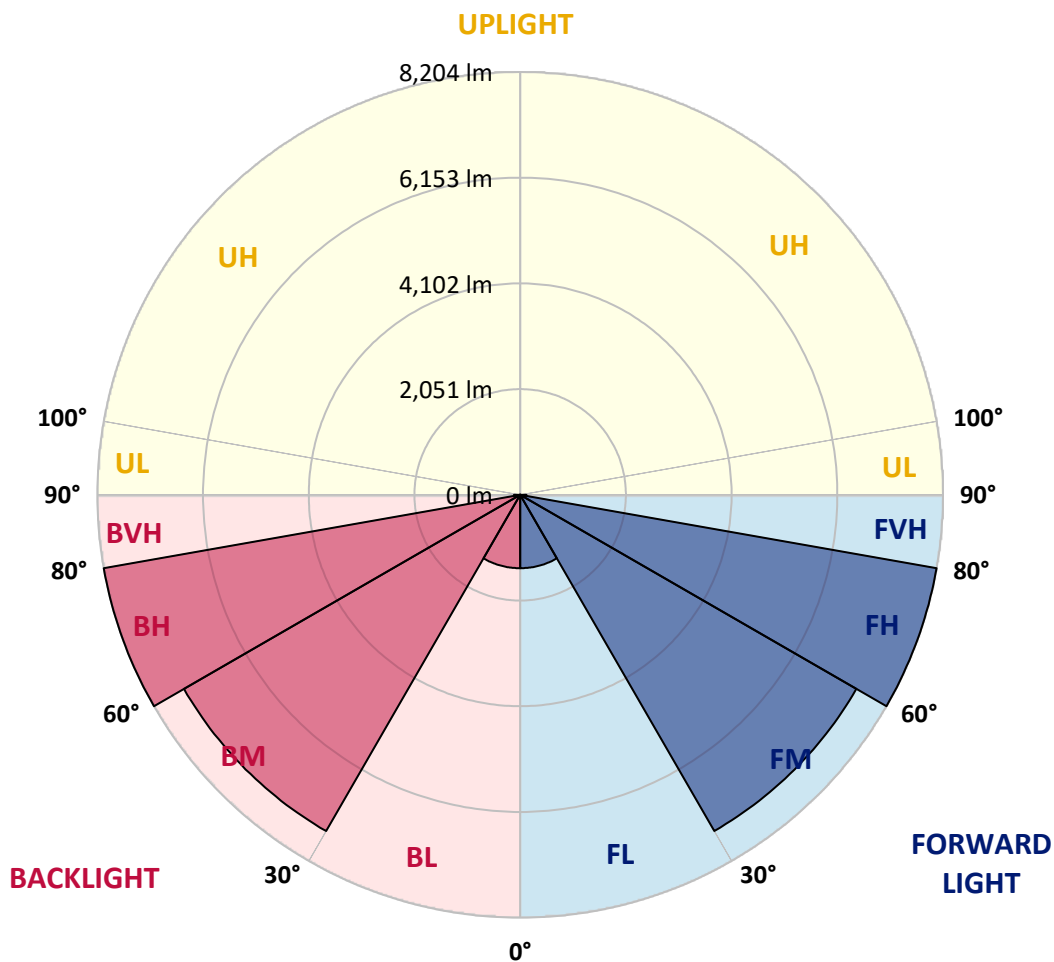
CATALOG NUMBER: GAN-AF-07-LED-U-5MQ-7030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1424.0	4.1			
FM	(30°-60°)	7532.0	21.8			
FH	(60°-80°)	8203.9	23.7			G4/12000
FVH	(80°-90°)	120.5	0.3			G2/225
BL	(0°-30°)	1424.0	4.1	B3/2500		
BM	(30°-60°)	7532.0	21.8	B4/8500		
BH	(60°-80°)	8203.9	23.7	B5		G4/12000
BVH	(80°-90°)	120.5	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





REPORT NUMBER: P192545

CATALOG NUMBER: GAN-AF-07-LED-U-5MQ-7030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3444.2	3444.2	3444.2	3444.2	3444.2	3444.2	3444.2	3444.2	3444.2	3444.2	3444.2
2.5°	3431.4	3434.6	3434.6	3434.6	3433.0	3433.0	3429.8	3433.0	3431.4	3426.7	3428.2
5°	3402.8	3406.0	3406.0	3404.4	3409.2	3407.6	3402.8	3406.0	3404.4	3401.2	3402.8
7.5°	3361.5	3366.3	3366.3	3364.6	3369.4	3367.8	3364.6	3366.3	3366.3	3361.5	3361.5
10°	3315.4	3318.5	3318.5	3317.0	3325.0	3325.0	3323.3	3328.1	3329.6	3325.0	3321.8
12.5°	3272.6	3277.2	3277.2	3283.6	3291.6	3294.7	3302.7	3309.0	3315.4	3313.9	3307.5
15°	3247.0	3250.3	3256.6	3264.5	3277.2	3288.3	3301.0	3315.4	3328.1	3331.4	3321.8
17.5°	3231.2	3235.9	3245.4	3256.6	3274.1	3293.2	3312.2	3331.4	3348.8	3355.2	3344.0
20°	3226.4	3229.6	3239.1	3258.2	3282.0	3310.7	3337.7	3359.9	3383.8	3391.7	3383.8
22.5°	3235.9	3242.3	3253.4	3275.7	3307.5	3344.0	3375.8	3406.0	3436.2	3450.5	3439.4
25°	3278.9	3285.2	3299.5	3328.1	3363.1	3401.2	3437.8	3472.7	3499.8	3514.1	3506.1
27.5°	3358.3	3366.3	3383.8	3412.3	3450.5	3491.8	3531.6	3560.2	3582.4	3587.2	3577.7
30°	3477.5	3494.9	3515.6	3547.4	3591.9	3626.9	3666.6	3692.1	3719.0	3719.0	3711.1
32.5°	3663.5	3681.0	3703.3	3733.4	3768.4	3806.5	3841.4	3863.7	3892.4	3893.9	3874.9
35°	3941.6	3949.5	3968.7	3987.8	4019.5	4052.9	4083.0	4097.3	4121.3	4122.8	4105.3
37.5°	4308.7	4310.4	4323.1	4329.4	4358.1	4394.6	4423.2	4432.7	4454.9	4451.8	4434.3
40°	4736.3	4744.2	4749.0	4758.6	4788.8	4823.7	4854.0	4858.6	4882.5	4877.8	4855.5
42.5°	5230.6	5233.7	5260.8	5275.0	5303.7	5321.2	5359.2	5364.1	5392.7	5379.9	5354.6
45°	5785.3	5813.9	5839.3	5867.9	5898.2	5918.8	5948.9	5942.6	5961.7	5942.6	5928.3
47.5°	6368.5	6389.3	6446.4	6491.0	6540.3	6557.7	6600.6	6581.6	6600.6	6573.6	6568.7
50°	7010.6	7047.2	7096.5	7147.3	7199.7	7228.4	7284.0	7260.2	7285.6	7260.2	7245.8
52.5°	7643.2	7652.7	7760.8	7835.5	7908.6	7942.0	7975.4	7964.2	7965.9	7964.2	7949.9
55°	8244.0	8266.2	8374.2	8476.0	8603.2	8696.9	8754.2	8747.9	8733.5	8719.2	8695.4
57.5°	8921.0	8943.3	9067.3	9192.8	9337.6	9471.0	9587.0	9706.1	9752.3	9765.0	9712.6
60°	9836.5	9835.0	10000.3	10152.8	10359.4	10558.0	10812.4	11071.5	11368.7	11506.9	11324.1
62.5°	10767.9	10806.1	11044.5	11314.7	11740.6	12155.4	12624.3	13085.2	13555.7	13938.6	13531.8
65°	10656.6	10802.9	11157.3	11769.2	12556.0	13490.5	14501.3	15571.0	16537.3	17201.7	16456.2
67.5°	9235.8	9444.0	9804.7	10548.6	11532.5	12880.1	14577.6	16693.0	19151.7	20340.6	18867.2
70°	6694.5	6929.6	7308.0	8034.2	9008.4	10289.5	12133.1	14673.0	17928.0	19126.4	17503.6
72.5°	3331.4	3458.5	3692.1	4154.6	4892.1	5931.4	7603.5	10044.8	12924.6	14024.5	12541.7
75°	1131.6	1190.4	1230.1	1381.1	1614.8	2023.3	2854.5	4391.3	6699.1	8031.0	6603.7
77.5°	653.3	654.8	681.9	708.9	748.5	793.1	904.3	1187.2	2053.4	2916.4	2125.0
80°	422.8	421.2	443.5	464.2	491.1	513.4	519.7	549.9	634.1	751.8	672.3
82.5°	219.3	246.4	295.6	322.7	373.4	383.1	370.3	359.3	379.9	394.2	403.7
85°	120.8	104.9	157.4	203.4	225.7	228.9	228.9	216.2	224.1	219.3	238.4
87.5°	55.6	50.8	62.0	100.1	106.5	90.5	95.4	84.2	60.4	58.8	66.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P192545

CATALOG NUMBER: GAN-AF-07-LED-U-5MQ-7030-800

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3444.2	3444.2	3444.2	3444.2	3444.2	3444.2	3444.2	3444.2
2.5°	3428.2	3429.8	3429.8	3434.6	3436.2	3439.4	3442.5	3444.2
5°	3401.2	3406.0	3402.8	3407.6	3407.6	3410.7	3410.7	3412.3
7.5°	3361.5	3366.3	3366.3	3366.3	3364.6	3369.4	3369.4	3369.4
10°	3320.2	3323.3	3321.8	3318.5	3315.4	3320.2	3318.5	3317.0
12.5°	3307.5	3299.5	3293.2	3290.1	3283.6	3285.2	3280.4	3280.4
15°	3315.4	3301.0	3290.1	3285.2	3278.9	3275.7	3272.6	3274.1
17.5°	3336.0	3318.5	3304.3	3296.4	3288.3	3283.6	3277.2	3278.9
20°	3372.7	3352.0	3331.4	3315.4	3301.0	3293.2	3288.3	3286.8
22.5°	3426.7	3396.5	3366.3	3342.5	3323.3	3312.2	3307.5	3304.3
25°	3488.6	3455.3	3420.3	3393.3	3374.3	3359.9	3350.3	3350.3
27.5°	3566.6	3539.5	3507.7	3476.0	3458.5	3444.2	3437.8	3434.6
30°	3696.9	3671.4	3646.0	3615.8	3593.5	3579.3	3568.1	3558.6
32.5°	3863.7	3843.0	3822.4	3800.1	3779.5	3760.3	3742.9	3735.0
35°	4099.0	4083.0	4068.7	4043.3	4035.4	4024.2	4014.7	4006.7
37.5°	4423.2	4416.8	4416.8	4389.8	4383.5	4378.7	4369.2	4370.7
40°	4849.2	4855.5	4847.5	4838.0	4833.2	4820.5	4820.5	4831.7
42.5°	5352.9	5357.7	5375.2	5359.2	5376.7	5361.0	5351.4	5359.2
45°	5937.8	5955.2	5990.2	5974.4	5985.6	5958.5	5925.1	5926.8
47.5°	6594.3	6610.1	6624.4	6613.4	6614.9	6570.5	6525.9	6514.8
50°	7276.1	7282.4	7290.5	7274.5	7277.6	7228.4	7177.6	7179.1
52.5°	7949.9	7980.2	8012.0	7969.1	7959.5	7904.0	7832.4	7803.8
55°	8720.8	8763.6	8727.2	8652.5	8577.7	8503.1	8409.2	8393.4
57.5°	9671.2	9598.1	9483.7	9342.2	9239.0	9134.1	9038.7	8998.9
60°	10993.5	10718.7	10512.1	10302.2	10170.3	10041.6	9916.1	9896.9
62.5°	12862.6	12387.5	11975.8	11541.9	11187.5	10910.9	10690.0	10628.0
65°	15205.4	14081.7	13107.4	12198.4	11408.5	10812.4	10437.3	10272.0
67.5°	16213.1	13994.3	12323.9	11033.3	10000.3	9278.7	8873.4	8671.6
70°	14247.0	11605.5	9788.9	8496.6	7555.9	6786.5	6419.4	6203.3
72.5°	9801.5	7382.5	5837.7	4764.9	4013.1	3369.4	3115.1	3096.1
75°	4401.0	2914.9	2009.0	1547.9	1303.3	1133.2	1080.8	1041.0
77.5°	1231.8	910.6	812.2	759.7	708.9	650.1	627.8	632.6
80°	599.2	565.9	543.6	510.1	464.2	414.8	392.6	402.1
82.5°	397.3	392.6	406.9	383.1	316.3	268.6	225.7	206.6
85°	241.6	244.7	249.5	251.1	212.9	149.3	101.7	114.4
87.5°	95.4	109.7	119.2	124.0	116.1	71.6	57.3	58.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)