

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: P190823

Luminaire Tested: **GAN-AF-05-LED-U-5MQ-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190823
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-05-LED-U-5MQ-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35070.8 lumens
Efficiency: N/A
Efficacy: 109.6 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): 320
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

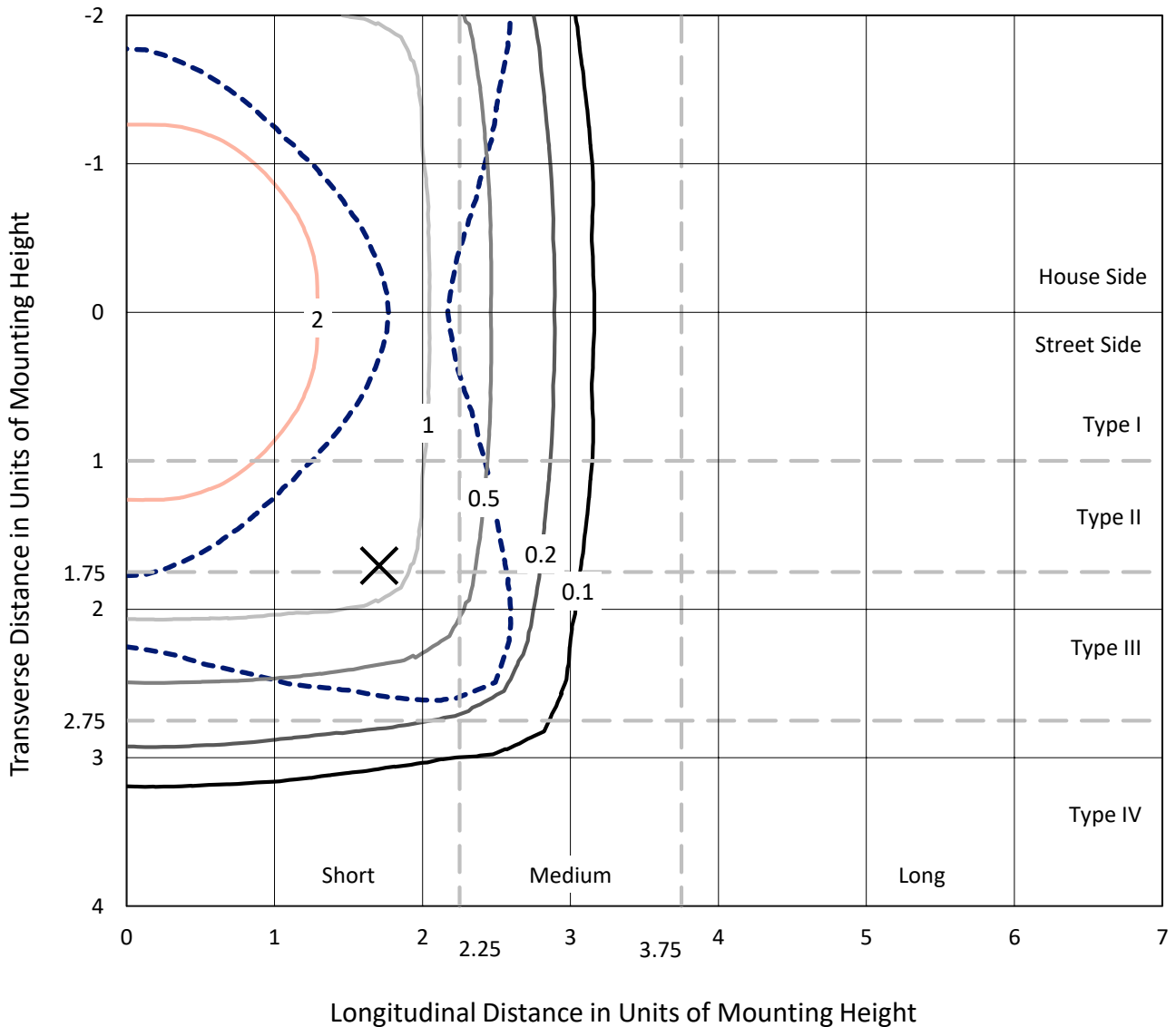




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Iso-Footcandle Lines of Horizontal Illumination

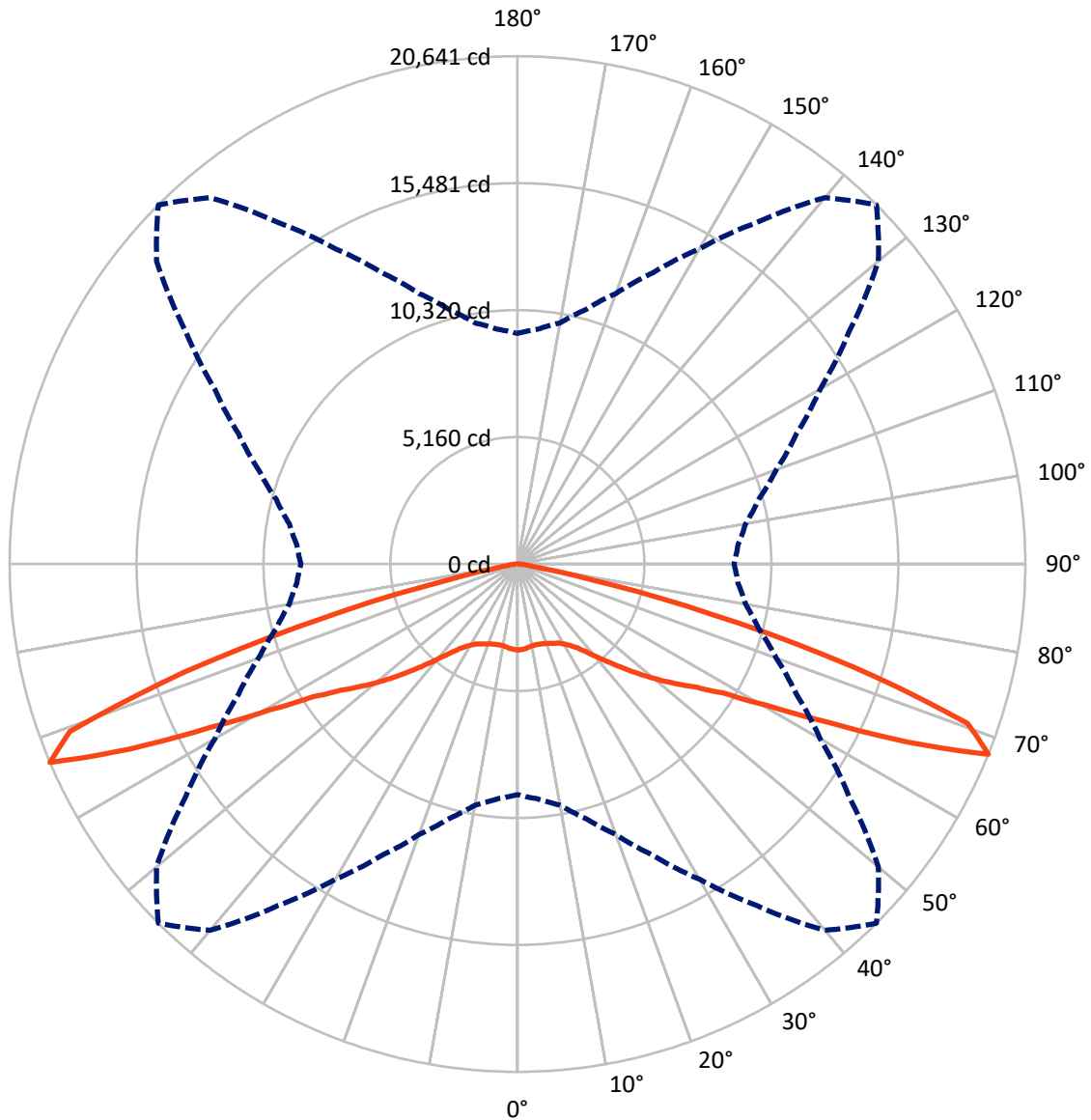
× Max cd
- - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.9 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	17535.4	0.0	17535.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17535.4	0.0	17535.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	35070.8	0.0	35070.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.1	0.9
10°-20°	949.2	2.7
20°-30°	1613.6	4.6
30°-40°	2637.8	7.5
40°-50°	4709.0	13.4
50°-60°	7939.5	22.6
60°-70°	12320.9	35.1
70°-80°	4329.0	12.3
80°-90°	244.6	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°	35070.8	100.0
0°-180°	35070.8	100.0



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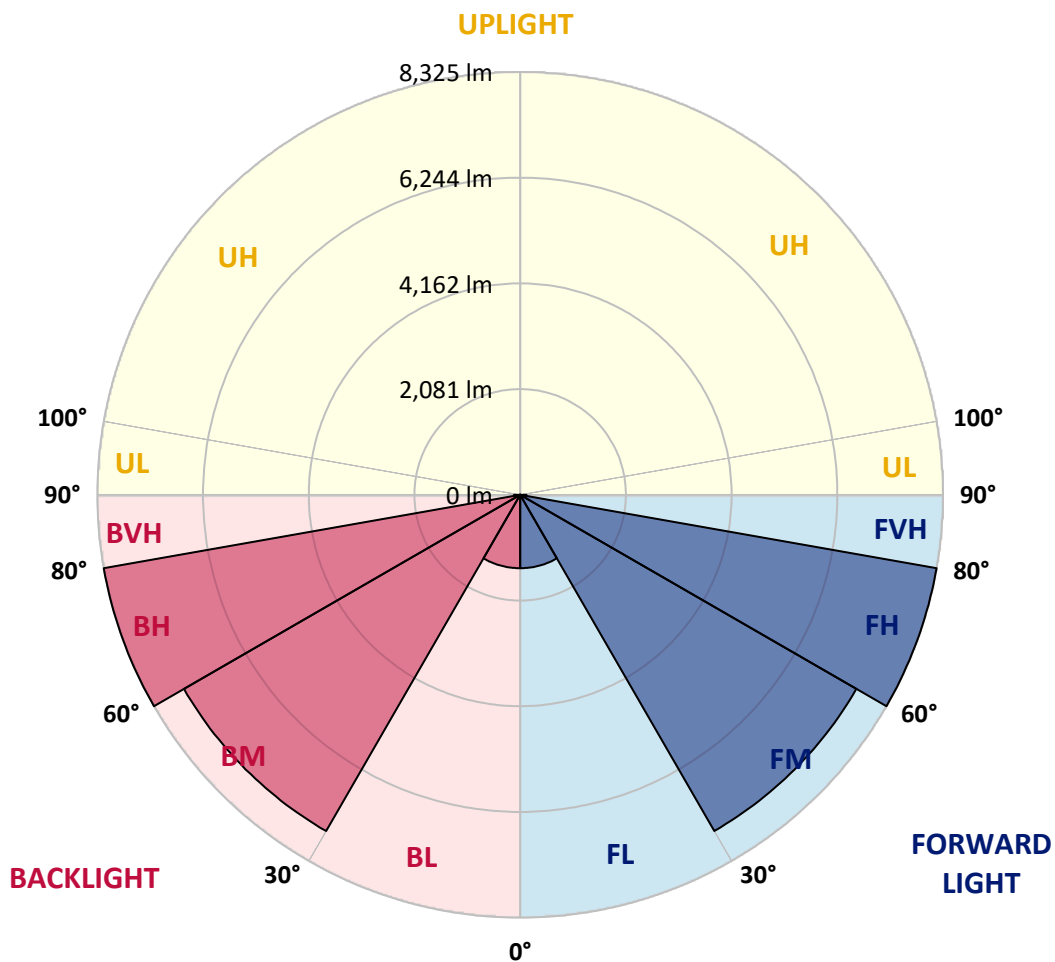
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1445.0	4.1			
FM	(30°-60°)	7643.1	21.8			
FH	(60°-80°)	8325.0	23.7			G4/12000
FVH	(80°-90°)	122.3	0.3			G2/225
BL	(0°-30°)	1445.0	4.1	B3/2500		
BM	(30°-60°)	7643.1	21.8	B4/8500		
BH	(60°-80°)	8325.0	23.7	B5		G4/12000
BVH	(80°-90°)	122.3	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°	3494.9	3494.9	3494.9	3494.9	3494.9	3494.9	3494.9	3494.9	3494.9	3494.9	3494.9
2.5°	3482.0	3485.3	3485.3	3485.3	3483.7	3483.7	3480.5	3483.7	3482.0	3477.2	3478.9
5°	3453.1	3456.2	3456.2	3454.6	3459.5	3457.9	3453.1	3456.2	3454.6	3451.4	3453.1
7.5°	3411.1	3415.9	3415.9	3414.3	3419.1	3417.6	3414.3	3415.9	3415.9	3411.1	3411.1
10°	3364.3	3367.6	3367.6	3365.9	3374.0	3374.0	3372.4	3377.3	3378.8	3374.0	3370.7
12.5°	3320.8	3325.6	3325.6	3332.1	3340.1	3343.3	3351.4	3357.8	3364.3	3362.7	3356.3
15°	3294.9	3298.2	3304.6	3312.7	3325.6	3336.9	3349.8	3364.3	3377.3	3380.4	3370.7
17.5°	3278.9	3283.7	3293.4	3304.6	3322.3	3341.8	3361.1	3380.4	3398.1	3404.7	3393.3
20°	3274.0	3277.2	3286.9	3306.3	3330.4	3359.5	3386.9	3409.5	3433.6	3441.7	3433.6
22.5°	3283.7	3290.1	3301.5	3324.0	3356.3	3393.3	3425.7	3456.2	3486.9	3501.5	3490.1
25°	3327.2	3333.7	3348.2	3377.3	3412.7	3451.4	3488.5	3524.0	3551.4	3565.9	3557.8
27.5°	3407.9	3415.9	3433.6	3462.7	3501.5	3543.3	3583.7	3612.7	3635.3	3640.1	3630.5
30°	3528.9	3546.6	3567.5	3599.8	3645.0	3680.5	3720.8	3746.6	3774.0	3774.0	3765.9
32.5°	3717.5	3735.3	3757.8	3788.5	3824.0	3862.7	3898.2	3920.8	3949.8	3951.4	3932.0
35°	3999.7	4007.8	4027.2	4046.6	4078.8	4112.7	4143.3	4157.8	4182.0	4183.7	4165.9
37.5°	4372.3	4373.9	4386.8	4393.3	4422.3	4459.5	4488.4	4498.1	4520.7	4517.5	4499.8
40°	4806.1	4814.2	4819.1	4828.7	4859.4	4894.9	4925.5	4930.3	4954.6	4949.8	4927.1
42.5°	5307.8	5311.0	5338.4	5352.9	5381.9	5399.6	5438.4	5443.2	5472.3	5459.4	5433.5
45°	5870.6	5899.7	5925.4	5954.5	5985.2	6006.1	6036.7	6030.3	6049.6	6030.3	6015.8
47.5°	6462.5	6483.5	6541.6	6586.7	6636.7	6654.5	6698.0	6678.6	6698.0	6670.6	6665.8
50°	7114.1	7151.2	7201.2	7252.8	7306.0	7335.1	7391.5	7367.3	7393.1	7367.3	7352.8
52.5°	7756.0	7765.6	7875.4	7951.2	8025.4	8059.2	8093.1	8081.8	8083.4	8081.8	8067.3
55°	8365.7	8388.2	8497.9	8601.1	8730.2	8825.3	8883.3	8876.9	8862.4	8847.9	8823.7
57.5°	9052.7	9075.3	9201.0	9328.5	9475.3	9610.7	9728.5	9849.4	9896.2	9909.1	9855.9
60°	9981.6	9980.1	10147.8	10302.6	10512.3	10713.9	10972.0	11234.9	11536.4	11676.8	11491.2
62.5°	10926.8	10965.5	11207.4	11481.6	11913.8	12334.7	12810.5	13278.2	13755.6	14144.3	13731.5
65°	10813.9	10962.2	11321.9	11942.8	12741.2	13689.5	14715.2	15800.7	16781.3	17455.4	16699.1
67.5°	9372.1	9583.3	9949.4	10704.3	11702.6	13070.2	14792.7	16939.3	19434.3	20640.7	19145.6
70°	6793.1	7031.9	7415.7	8152.7	9141.4	10441.4	12312.2	14889.5	18192.5	19408.5	17761.9
72.5°	3380.4	3509.4	3746.6	4215.9	4964.3	6019.0	7715.7	10193.0	13115.4	14231.4	12726.6
75°	1148.4	1208.0	1248.3	1401.5	1638.7	2053.1	2896.6	4456.2	6798.0	8149.5	6701.2
77.5°	662.9	664.5	691.9	719.3	759.6	804.8	917.7	1204.7	2083.8	2959.5	2156.3
80°	429.0	427.4	450.0	471.0	498.4	520.9	527.4	558.0	643.5	762.8	682.2
82.5°	222.6	250.0	300.0	327.4	379.0	388.7	375.8	364.5	385.4	400.0	409.7
85°	122.5	106.5	159.7	206.4	229.0	232.2	232.2	219.3	227.4	222.6	241.9
87.5°	56.5	51.7	62.9	101.6	108.0	92.0	96.8	85.5	61.3	59.6	67.7
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°	3494.9	3494.9	3494.9	3494.9	3494.9	3494.9	3494.9	3494.9
2.5°	3478.9	3480.5	3480.5	3485.3	3486.9	3490.1	3493.4	3494.9
5°	3451.4	3456.2	3453.1	3457.9	3457.9	3461.1	3461.1	3462.7
7.5°	3411.1	3415.9	3415.9	3415.9	3414.3	3419.1	3419.1	3419.1
10°	3369.2	3372.4	3370.7	3367.6	3364.3	3369.2	3367.6	3365.9
12.5°	3356.3	3348.2	3341.8	3338.5	3332.1	3333.7	3328.9	3328.9
15°	3364.3	3349.8	3338.5	3333.7	3327.2	3324.0	3320.8	3322.3
17.5°	3385.3	3367.6	3353.0	3344.9	3336.9	3332.1	3325.6	3327.2
20°	3422.4	3401.4	3380.4	3364.3	3349.8	3341.8	3336.9	3335.3
22.5°	3477.2	3446.5	3415.9	3391.7	3372.4	3361.1	3356.3	3353.0
25°	3540.1	3506.3	3470.8	3443.4	3424.0	3409.5	3399.8	3399.8
27.5°	3619.1	3591.7	3559.5	3527.2	3509.4	3494.9	3488.5	3485.3
30°	3751.4	3725.6	3699.8	3669.1	3646.5	3632.1	3620.7	3611.1
32.5°	3920.8	3899.8	3878.8	3856.2	3835.2	3815.9	3798.2	3790.1
35°	4159.4	4143.3	4128.8	4103.0	4094.9	4083.6	4074.0	4065.9
37.5°	4488.4	4482.0	4482.0	4454.5	4448.1	4443.3	4433.6	4435.2
40°	4920.7	4927.1	4919.1	4909.3	4904.5	4891.6	4891.6	4902.9
42.5°	5432.0	5436.8	5454.5	5438.4	5456.1	5440.1	5430.3	5438.4
45°	6025.5	6043.2	6078.7	6062.5	6073.9	6046.5	6012.6	6014.1
47.5°	6691.5	6707.7	6722.2	6710.9	6712.5	6667.4	6622.2	6610.9
50°	7383.5	7389.9	7398.0	7381.8	7385.1	7335.1	7283.4	7285.0
52.5°	8067.3	8097.9	8130.2	8086.6	8076.9	8020.5	7947.9	7918.9
55°	8849.4	8893.0	8855.9	8780.1	8704.3	8628.5	8533.4	8517.3
57.5°	9814.0	9739.7	9623.6	9480.1	9375.2	9268.9	9172.1	9131.7
60°	11155.8	10876.8	10667.1	10454.3	10320.3	10189.7	10062.4	10042.9
62.5°	13052.4	12570.2	12152.6	11712.2	11352.6	11071.9	10847.8	10784.9
65°	15429.8	14289.5	13300.8	12378.3	11576.7	10972.0	10591.3	10423.6
67.5°	16452.2	14200.8	12505.7	11196.1	10147.8	9415.5	9004.3	8799.5
70°	14457.3	11776.7	9933.3	8622.0	7667.3	6886.7	6514.2	6294.8
72.5°	9946.2	7491.5	5923.8	4835.2	4072.4	3419.1	3161.1	3141.8
75°	4465.9	2957.9	2038.6	1570.8	1322.5	1149.9	1096.7	1056.4
77.5°	1249.9	924.1	824.2	770.9	719.3	659.6	637.1	641.9
80°	608.0	574.2	551.6	517.7	471.0	420.9	398.3	408.1
82.5°	403.2	398.3	412.9	388.7	320.9	272.5	229.0	209.7
85°	245.1	248.4	253.2	254.8	216.1	151.6	103.2	116.1
87.5°	96.8	111.3	120.9	125.8	117.7	72.5	58.1	59.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)