

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: P268809

Luminaire Tested: **GAN-AF-09-LED-U-5WQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268809
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-09-LED-U-5WQ-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 48697.2 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G5

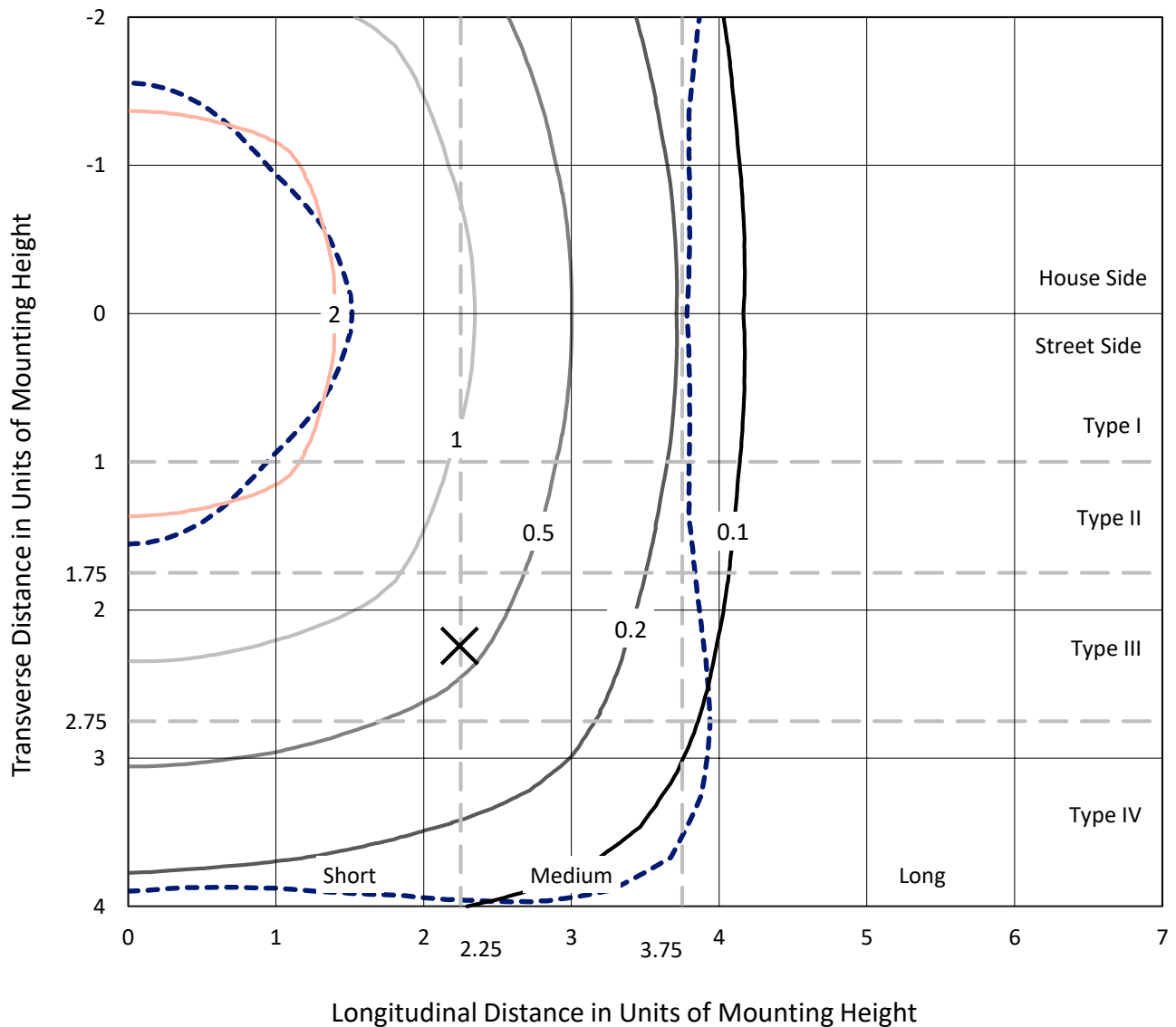
Input Watts (W): 501
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

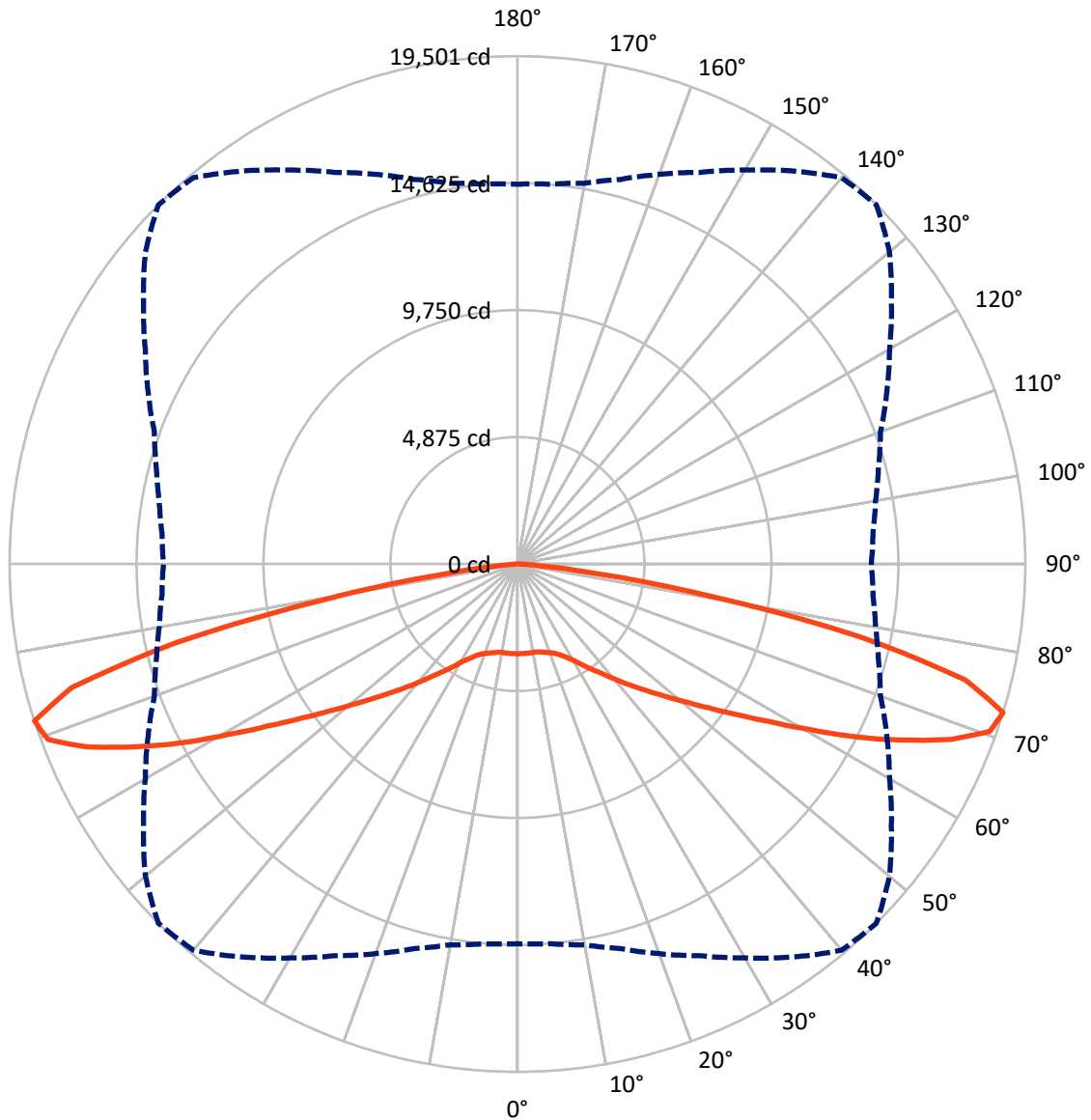
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.8 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	24348.6	0.0	24348.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24348.6	0.0	24348.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	48697.2	0.0	48697.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.3	0.7
10°-20°	1000.1	2.1
20°-30°	1827.6	3.8
30°-40°	3151.1	6.5
40°-50°	5386.7	11.1
50°-60°	8731.2	17.9
60°-70°	14484.8	29.7
70°-80°	12757.7	26.2
80°-90°	1028.6	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°	48697.2	100.0
0°-180°	48697.2	100.0



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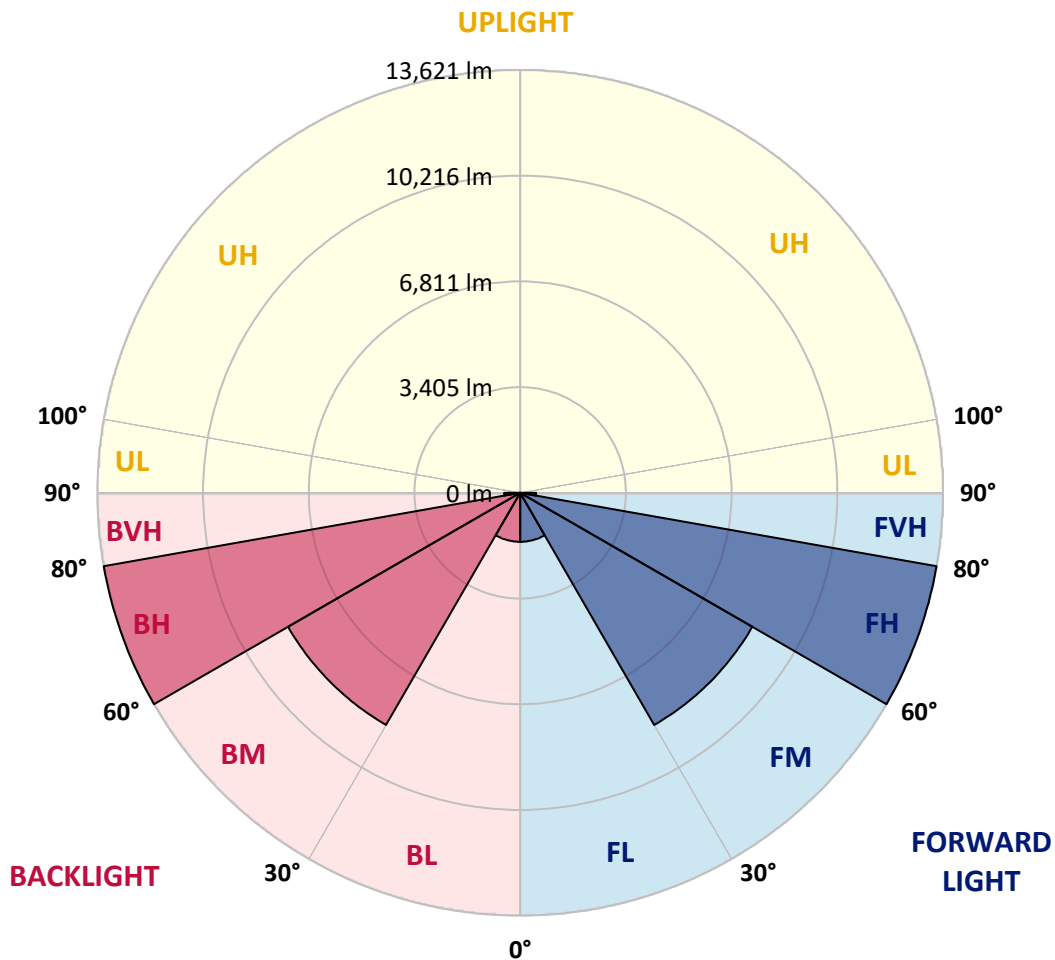
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1578.5	3.2			
FM	(30°-60°)	8634.5	17.7			
FH	(60°-80°)	13621.2	28.0			G5
FVH	(80°-90°)	514.3	1.1			G4/750
BL	(0°-30°)	1578.5	3.2	B3/2500		
BM	(30°-60°)	8634.5	17.7	B5		
BH	(60°-80°)	13621.2	28.0	B5		G5
BVH	(80°-90°)	514.3	1.1			G4/750
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°	3448.6	3448.6	3448.6	3448.6	3448.6	3448.6	3448.6	3448.6	3448.6	3448.6	3448.6
2.5°	3448.6	3450.7	3452.9	3450.7	3450.7	3448.6	3446.3	3448.6	3446.3	3441.9	3444.0
5°	3459.7	3464.1	3464.1	3459.7	3461.9	3459.7	3455.2	3457.4	3452.9	3446.3	3446.3
7.5°	3473.0	3475.4	3475.4	3470.8	3473.0	3468.6	3464.1	3461.9	3457.4	3448.6	3441.9
10°	3493.1	3495.5	3493.1	3488.7	3488.7	3482.0	3470.8	3466.4	3457.4	3444.0	3437.4
12.5°	3515.5	3517.8	3515.5	3511.0	3508.8	3497.6	3488.7	3482.0	3475.4	3464.1	3452.9
15°	3546.8	3551.3	3546.8	3537.9	3531.1	3522.3	3517.8	3520.0	3522.3	3513.4	3502.1
17.5°	3604.9	3607.1	3600.3	3580.3	3571.3	3562.4	3562.4	3566.9	3573.5	3569.1	3557.9
20°	3712.1	3705.4	3689.8	3665.2	3653.9	3638.3	3636.1	3638.3	3638.3	3636.1	3627.1
22.5°	3846.1	3841.6	3821.5	3790.3	3774.6	3765.6	3752.3	3741.1	3738.8	3732.2	3723.3
25°	4006.9	4004.6	3980.1	3953.4	3942.1	3931.0	3919.8	3904.2	3890.7	3875.1	3866.1
27.5°	4212.4	4203.3	4167.6	4154.3	4138.8	4131.9	4116.4	4098.4	4087.3	4067.2	4056.0
30°	4437.9	4437.9	4408.9	4404.5	4404.5	4388.8	4371.0	4339.7	4319.6	4299.5	4292.8
32.5°	4663.6	4665.7	4636.7	4645.7	4652.4	4663.6	4668.0	4656.9	4643.3	4641.3	4627.8
35°	4989.6	4980.7	4951.6	4958.4	4956.0	4954.0	4954.0	4978.4	4982.9	4987.4	4960.6
37.5°	5394.0	5394.0	5364.9	5364.9	5351.5	5338.1	5320.2	5335.8	5360.4	5367.2	5349.2
40°	5856.2	5871.9	5836.1	5834.0	5838.4	5796.0	5775.8	5800.4	5816.0	5842.8	5822.8
42.5°	6401.2	6390.1	6354.3	6349.8	6325.2	6311.9	6294.0	6314.0	6338.7	6356.5	6363.2
45°	6923.9	6915.0	6874.6	6874.6	6850.1	6838.9	6847.9	6881.3	6892.5	6917.0	6941.7
47.5°	7439.8	7428.7	7401.9	7413.0	7415.1	7435.4	7464.3	7495.5	7526.9	7560.3	7571.5
50°	7966.9	7969.1	7940.1	7966.9	8000.3	8056.2	8134.4	8185.7	8250.6	8293.0	8306.4
52.5°	8447.1	8456.0	8487.2	8549.8	8616.8	8726.2	8860.3	8985.3	9092.6	9164.0	9159.6
55°	9023.4	9036.7	9112.6	9219.8	9329.3	9494.5	9693.4	9914.6	10093.1	10195.9	10131.2
57.5°	9760.4	9789.4	9874.3	10019.4	10182.5	10397.0	10669.3	11002.3	11279.2	11417.6	11312.6
60°	10772.1	10790.0	10892.8	11053.6	11250.2	11515.9	11879.9	12326.6	12717.6	12900.6	12780.0
62.5°	12105.6	12139.1	12221.7	12384.8	12585.8	12887.3	13331.7	13890.1	14377.1	14631.7	14359.1
65°	13698.1	13805.2	13874.5	14039.8	14227.4	14546.8	15011.3	15609.8	16132.5	16300.0	15985.1
67.5°	15274.9	15368.7	15489.3	15679.1	15869.0	16228.6	16659.6	17240.4	17814.4	17966.2	17477.2
70°	15965.0	16018.7	16206.2	16465.4	16829.3	17253.7	17751.9	18403.9	19114.2	19239.3	18618.5
72.5°	14582.5	14636.1	14846.1	15286.1	15920.3	16594.8	17463.7	18421.9	19359.9	19500.6	18645.2
75°	11029.0	10941.9	11252.3	11835.3	12690.7	13631.1	14846.1	16219.6	17575.3	17751.9	16731.1
77.5°	5699.8	5688.6	5923.2	6646.9	7667.7	8737.5	10075.3	11627.7	12954.3	13490.2	12659.5
80°	1605.9	1623.7	1735.4	2094.9	2691.3	3464.1	4509.4	5963.5	7048.9	7602.9	7138.2
82.5°	629.8	678.9	721.3	788.4	866.5	980.5	1308.8	1947.6	2613.2	3122.4	2557.4
85°	225.6	241.3	341.7	404.2	411.0	433.3	493.6	576.3	694.6	828.6	681.3
87.5°	84.9	93.9	109.5	180.9	178.8	163.0	198.7	207.7	156.3	142.9	176.4
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°	3448.6	3448.6	3448.6	3448.6	3448.6	3448.6	3448.6	3448.6
2.5°	3439.6	3441.9	3441.9	3444.0	3446.3	3446.3	3450.7	3450.7
5°	3441.9	3441.9	3437.4	3439.6	3437.4	3437.4	3439.6	3439.6
7.5°	3437.4	3435.1	3430.6	3428.4	3424.0	3424.0	3424.0	3424.0
10°	3430.6	3428.4	3424.0	3421.7	3419.5	3419.5	3419.5	3419.5
12.5°	3448.6	3441.9	3437.4	3435.1	3435.1	3435.1	3435.1	3435.1
15°	3495.5	3479.8	3468.6	3468.6	3470.8	3475.4	3475.4	3479.8
17.5°	3553.4	3535.5	3524.5	3515.5	3520.0	3526.7	3531.1	3535.5
20°	3622.8	3613.8	3598.3	3589.2	3589.2	3598.3	3602.7	3604.9
22.5°	3718.8	3712.1	3705.4	3694.2	3694.2	3698.7	3707.7	3707.7
25°	3861.8	3857.2	3852.8	3843.8	3841.6	3841.6	3846.1	3850.6
27.5°	4040.3	4042.6	4038.2	4035.9	4029.2	4027.0	4033.7	4031.5
30°	4279.3	4290.6	4301.8	4292.8	4281.6	4274.9	4268.1	4259.3
32.5°	4603.3	4589.8	4580.8	4565.2	4545.2	4527.3	4514.0	4498.3
35°	4909.2	4886.9	4877.9	4891.4	4889.1	4877.9	4862.3	4849.0
37.5°	5284.5	5280.0	5284.5	5309.1	5304.5	5315.7	5284.5	5282.3
40°	5758.0	5762.4	5793.7	5822.8	5838.4	5854.0	5836.1	5818.2
42.5°	6307.4	6305.2	6316.3	6356.5	6383.4	6401.2	6363.2	6358.7
45°	6888.2	6872.5	6881.3	6915.0	6941.7	6961.9	6919.4	6919.4
47.5°	7526.9	7500.0	7471.1	7509.0	7524.7	7538.0	7504.5	7493.4
50°	8239.3	8183.5	8120.9	8136.6	8136.6	8132.1	8089.7	8087.5
52.5°	9056.8	8954.0	8840.2	8797.7	8773.1	8746.3	8672.6	8636.9
55°	9997.1	9843.0	9664.3	9554.9	9496.8	9423.1	9300.3	9266.7
57.5°	11096.0	10854.8	10546.6	10412.6	10283.0	10162.3	10026.2	9988.2
60°	12398.1	12042.9	11634.3	11386.3	11245.6	11129.6	10988.7	10982.0
62.5°	13849.9	13289.3	12827.0	12603.6	12500.9	12398.1	12264.1	12281.9
65°	15326.3	14741.0	14307.8	14126.8	14030.8	13945.9	13811.9	13832.0
67.5°	16782.5	16244.2	15768.5	15583.1	15475.9	15368.7	15248.1	15268.2
70°	17827.8	17160.0	16623.9	16212.9	15956.1	15665.7	15478.2	15431.3
72.5°	17528.4	16498.8	15647.8	14832.6	14354.6	13966.0	13702.4	13588.7
75°	15169.9	13762.8	12668.3	11667.7	11104.9	10647.2	10314.2	10106.7
77.5°	11265.7	9684.4	8391.2	7238.7	6327.5	5715.6	5284.5	5005.3
80°	6166.7	4690.3	3428.4	2410.0	1771.2	1471.9	1299.8	1217.3
82.5°	1920.8	1239.7	913.4	788.4	732.6	701.3	650.0	567.3
85°	611.9	536.1	498.1	475.7	453.5	395.3	272.5	247.9
87.5°	236.8	243.4	241.3	227.8	232.3	167.5	133.9	118.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)