

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: P268732

Luminaire Tested: **GAN-AF-08-LED-U-5WQ-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268732
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-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47889.4 lumens
Efficiency: N/A
Efficacy: 93.7 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): 511
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

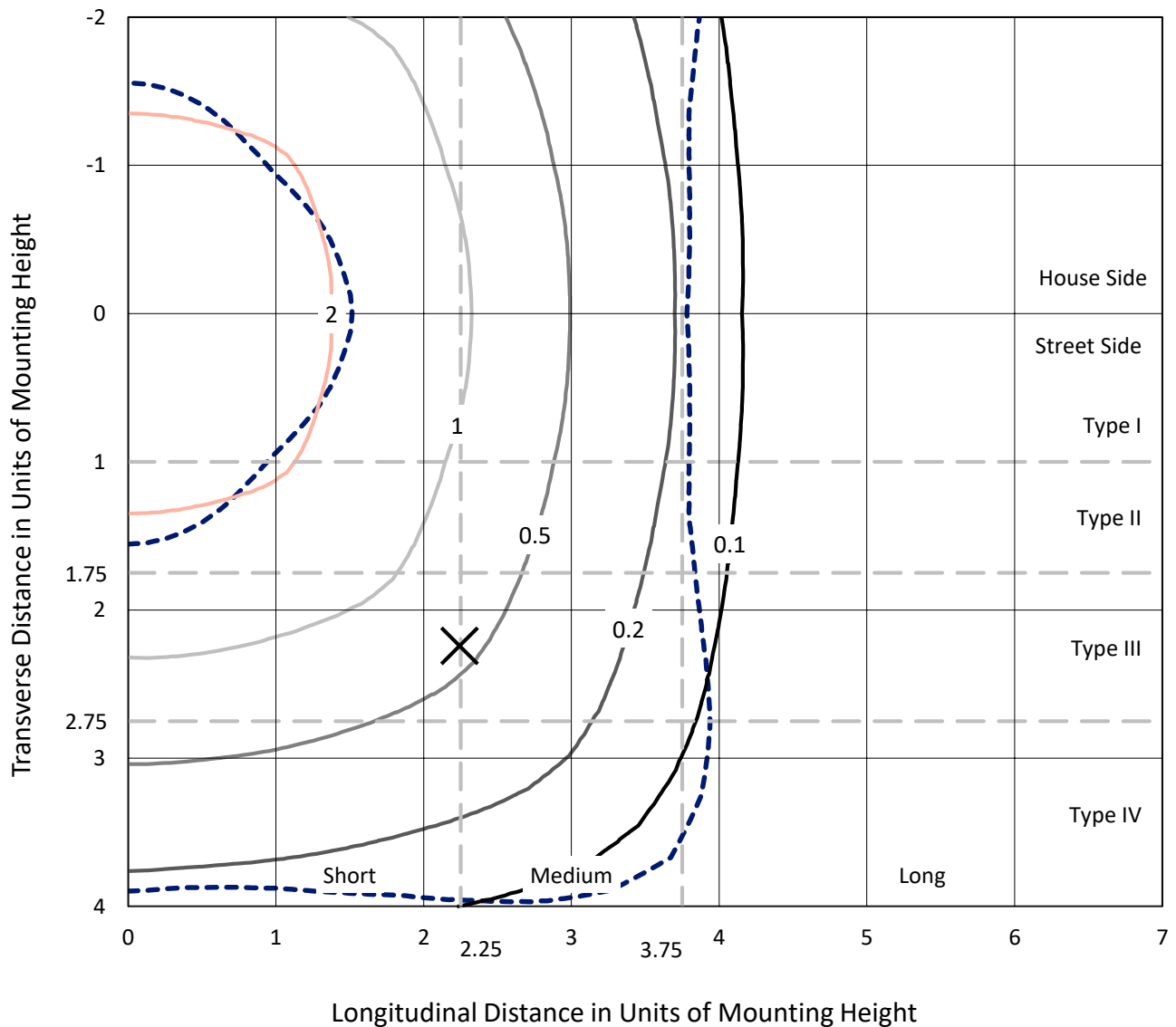


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

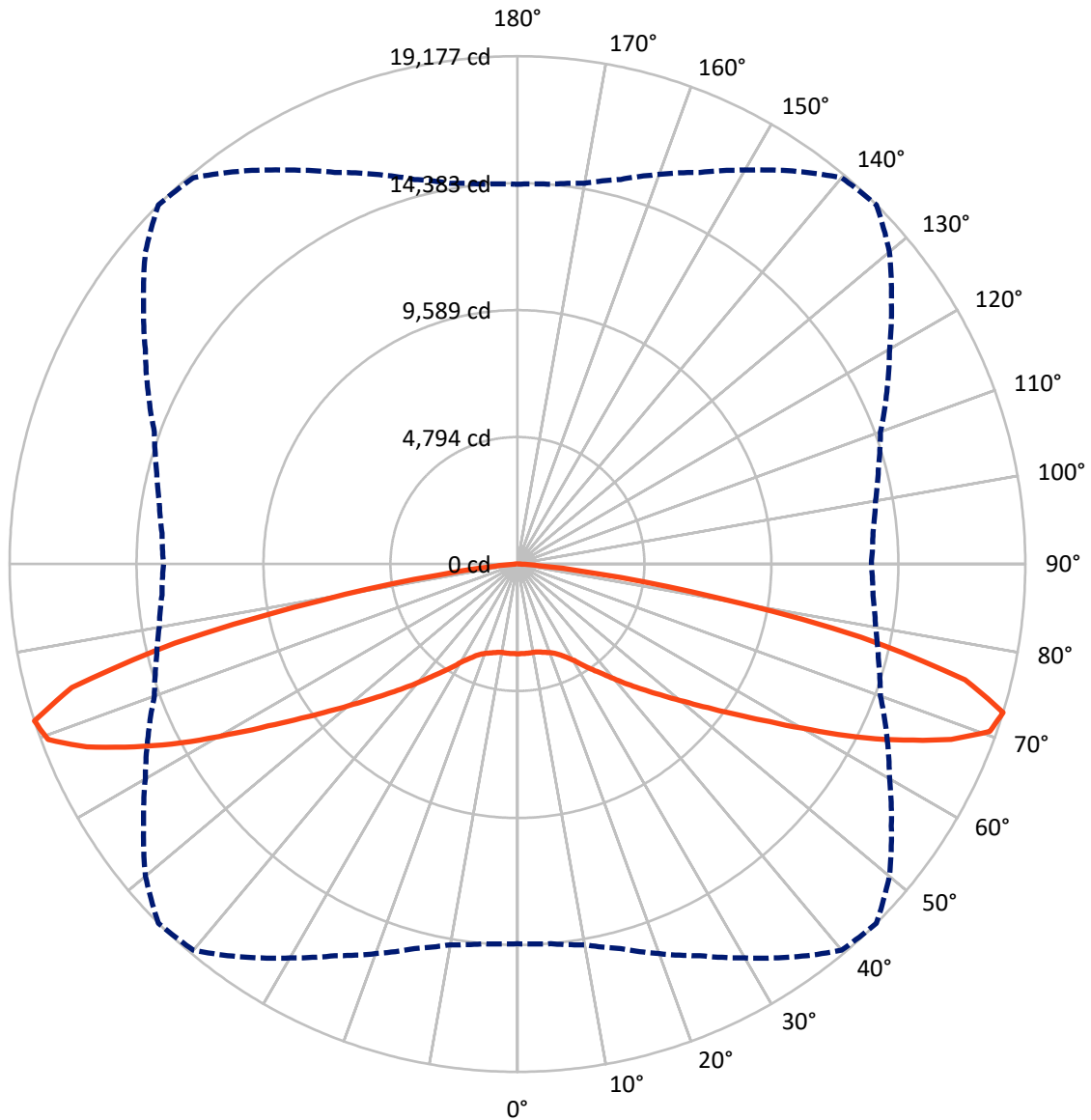


Based on 30 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - Semi-Cutoff

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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	23944.7	0.0	23944.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23944.7	0.0	23944.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	47889.4	0.0	47889.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.8	0.7
10°-20°	983.5	2.1
20°-30°	1797.3	3.8
30°-40°	3098.8	6.5
40°-50°	5297.4	11.1
50°-60°	8586.4	17.9
60°-70°	14244.5	29.7
70°-80°	12546.1	26.2
80°-90°	1011.6	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°	47889.4	100.0
0°-180°	47889.4	100.0



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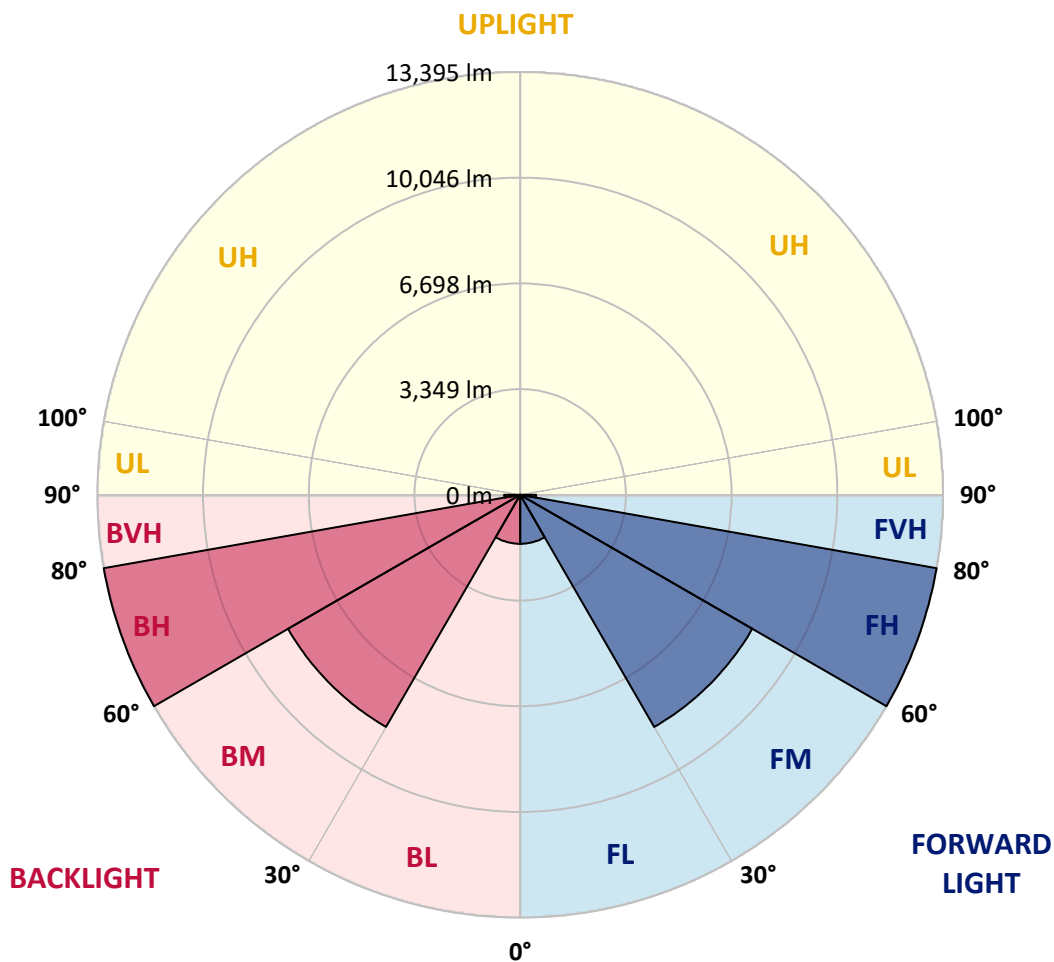
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1552.3	3.2			
FM	(30°-60°)	8491.3	17.7			
FH	(60°-80°)	13395.3	28.0			G5
FVH	(80°-90°)	505.8	1.1			G4/750
BL	(0°-30°)	1552.3	3.2	B3/2500		
BM	(30°-60°)	8491.3	17.7	B4/8500		
BH	(60°-80°)	13395.3	28.0	B5		G5
BVH	(80°-90°)	505.8	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°	3391.3	3391.3	3391.3	3391.3	3391.3	3391.3	3391.3	3391.3	3391.3	3391.3	3391.3
2.5°	3391.3	3393.4	3395.8	3393.4	3393.4	3391.3	3389.1	3391.3	3389.1	3384.8	3386.9
5°	3402.3	3406.7	3406.7	3402.3	3404.4	3402.3	3397.8	3400.2	3395.8	3389.1	3389.1
7.5°	3415.4	3417.7	3417.7	3413.3	3415.4	3411.0	3406.7	3404.4	3400.2	3391.3	3384.8
10°	3435.3	3437.5	3435.3	3430.8	3430.8	3424.2	3413.3	3408.9	3400.2	3386.9	3380.3
12.5°	3457.1	3459.5	3457.1	3452.8	3450.6	3439.6	3430.8	3424.2	3417.7	3406.7	3395.8
15°	3487.9	3492.3	3487.9	3479.1	3472.6	3463.9	3459.5	3461.6	3463.9	3455.1	3444.0
17.5°	3545.2	3547.2	3540.7	3520.8	3512.2	3503.3	3503.3	3507.7	3514.3	3509.9	3499.0
20°	3650.5	3644.0	3628.6	3604.4	3593.4	3577.9	3575.9	3577.9	3577.9	3575.9	3567.0
22.5°	3782.3	3777.9	3758.1	3727.3	3711.9	3703.3	3690.1	3679.1	3676.9	3670.2	3661.5
25°	3940.4	3938.2	3914.1	3887.8	3876.7	3865.8	3854.7	3839.4	3826.2	3810.8	3802.0
27.5°	4142.5	4133.7	4098.5	4085.4	4070.0	4063.5	4048.0	4030.4	4019.5	3999.8	3988.7
30°	4364.3	4364.3	4335.8	4331.4	4331.4	4316.0	4298.5	4267.7	4247.9	4228.1	4221.6
32.5°	4586.1	4588.5	4559.8	4568.6	4575.2	4586.1	4590.6	4579.6	4566.4	4564.2	4551.1
35°	4906.8	4898.1	4869.5	4876.1	4873.9	4871.7	4871.7	4895.9	4900.3	4904.7	4878.3
37.5°	5304.4	5304.4	5275.8	5275.8	5262.7	5249.5	5232.0	5247.3	5271.4	5278.0	5260.5
40°	5759.0	5774.5	5739.4	5737.1	5741.4	5699.7	5680.1	5704.1	5719.6	5745.9	5726.2
42.5°	6295.1	6284.1	6248.9	6244.5	6220.4	6207.2	6189.6	6209.4	6233.5	6251.0	6257.7
45°	6809.1	6800.2	6760.6	6760.6	6736.5	6725.5	6734.4	6767.2	6778.3	6802.3	6826.6
47.5°	7316.3	7305.3	7279.1	7290.0	7292.3	7311.9	7340.5	7371.3	7402.0	7435.0	7446.0
50°	7834.7	7837.0	7808.3	7834.7	7867.6	7922.6	7999.4	8050.0	8113.8	8155.4	8168.6
52.5°	8306.9	8315.8	8346.5	8408.0	8473.9	8581.5	8713.3	8836.3	8941.8	9012.1	9007.7
55°	8873.6	8886.8	8961.5	9067.0	9174.6	9337.2	9532.5	9750.1	9925.7	10026.8	9963.1
57.5°	9598.5	9627.0	9710.5	9853.2	10013.5	10224.5	10492.5	10819.6	11092.0	11228.3	11125.0
60°	10593.4	10611.0	10712.1	10870.2	11063.5	11324.9	11682.8	12122.2	12506.6	12686.8	12568.0
62.5°	11904.8	11937.7	12019.0	12179.3	12376.9	12673.5	13110.7	13659.6	14138.6	14389.0	14120.9
65°	13470.9	13576.3	13644.4	13806.9	13991.5	14305.5	14762.3	15351.0	15865.0	16029.6	15720.0
67.5°	15021.5	15113.8	15232.4	15419.0	15605.7	15959.4	16383.3	16954.4	17518.8	17668.3	17187.2
70°	15700.1	15752.9	15937.4	16192.2	16550.3	16967.5	17457.4	18098.7	18797.3	18920.2	18309.7
72.5°	14340.6	14393.4	14599.9	15032.4	15656.3	16319.6	17174.1	18116.3	19038.8	19177.1	18335.9
75°	10846.0	10760.3	11065.7	11639.0	12480.2	13404.9	14599.9	15950.7	17283.8	17457.4	16453.5
77.5°	5605.3	5594.4	5825.0	6536.6	7540.5	8592.5	9908.1	11434.7	12739.5	13266.6	12449.5
80°	1579.2	1596.7	1706.6	2060.3	2646.8	3406.7	4434.7	5864.6	6932.0	7476.8	7019.9
82.5°	619.4	667.7	709.4	775.3	852.2	964.2	1287.1	1915.2	2569.8	3070.6	2515.0
85°	221.8	237.2	336.1	397.6	404.1	426.2	485.4	566.7	683.2	814.9	670.0
87.5°	83.5	92.3	107.6	178.0	175.7	160.3	195.6	204.3	153.8	140.6	173.6
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°	3391.3	3391.3	3391.3	3391.3	3391.3	3391.3	3391.3	3391.3
2.5°	3382.6	3384.8	3384.8	3386.9	3389.1	3389.1	3393.4	3393.4
5°	3384.8	3384.8	3380.3	3382.6	3380.3	3380.3	3382.6	3382.6
7.5°	3380.3	3378.2	3373.8	3371.6	3367.1	3367.1	3367.1	3367.1
10°	3373.8	3371.6	3367.1	3365.0	3362.7	3362.7	3362.7	3362.7
12.5°	3391.3	3384.8	3380.3	3378.2	3378.2	3378.2	3378.2	3378.2
15°	3437.5	3422.1	3411.0	3411.0	3413.3	3417.7	3417.7	3422.1
17.5°	3494.5	3477.0	3466.0	3457.1	3461.6	3468.1	3472.6	3477.0
20°	3562.7	3553.9	3538.5	3529.7	3529.7	3538.5	3542.8	3545.2
22.5°	3657.1	3650.5	3644.0	3632.9	3632.9	3637.2	3646.1	3646.1
25°	3797.7	3793.3	3789.0	3780.1	3777.9	3777.9	3782.3	3786.6
27.5°	3973.4	3975.5	3971.1	3969.0	3962.5	3960.2	3966.7	3964.6
30°	4208.4	4219.3	4230.4	4221.6	4210.5	4204.0	4197.4	4188.6
32.5°	4526.9	4513.8	4504.9	4489.5	4469.7	4452.2	4439.1	4423.7
35°	4827.9	4805.8	4797.0	4810.2	4808.0	4797.0	4781.7	4768.6
37.5°	5196.8	5192.5	5196.8	5220.9	5216.5	5227.5	5196.8	5194.5
40°	5662.5	5666.9	5697.6	5726.2	5741.4	5756.9	5739.4	5721.8
42.5°	6202.7	6200.6	6211.6	6251.0	6277.4	6295.1	6257.7	6253.3
45°	6773.8	6758.5	6767.2	6800.2	6826.6	6846.3	6804.7	6804.7
47.5°	7402.0	7375.7	7347.1	7384.4	7399.9	7413.1	7380.0	7369.1
50°	8102.7	8047.7	7986.3	8001.7	8001.7	7997.3	7955.5	7953.4
52.5°	8906.5	8805.5	8693.5	8651.8	8627.6	8601.4	8528.8	8493.7
55°	9831.3	9679.7	9504.1	9396.5	9339.3	9266.8	9146.1	9113.0
57.5°	10911.9	10674.6	10371.7	10239.8	10112.4	9993.9	9859.8	9822.4
60°	12192.4	11843.3	11441.4	11197.6	11059.2	10944.9	10806.5	10800.0
62.5°	13620.2	13068.8	12614.2	12394.5	12293.6	12192.4	12060.7	12078.3
65°	15072.0	14496.6	14070.4	13892.6	13798.1	13714.7	13582.8	13602.7
67.5°	16504.1	15974.7	15506.9	15324.6	15219.2	15113.8	14995.1	15014.9
70°	17532.0	16875.3	16348.2	15943.9	15691.5	15405.9	15221.4	15175.2
72.5°	17237.8	16225.1	15388.3	14586.6	14116.5	13734.4	13475.2	13363.1
75°	14918.2	13534.6	12458.2	11474.2	10920.8	10470.5	10143.2	9938.9
77.5°	11078.8	9523.8	8252.1	7118.7	6222.5	5620.8	5196.8	4922.3
80°	6064.4	4612.5	3371.6	2370.0	1741.8	1447.4	1278.4	1197.1
82.5°	1889.0	1219.0	898.3	775.3	720.4	689.7	639.1	557.8
85°	601.9	527.1	489.8	467.8	445.9	388.7	268.0	243.8
87.5°	232.8	239.4	237.2	224.0	228.3	164.7	131.8	116.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)