

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: P268564

Luminaire Tested: **GAN-AF-06-LED-U-5MQ-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268564
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-06-LED-U-5MQ-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 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: 35644.5 lumens
Efficiency: N/A
Efficacy: 93.3 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): 382
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

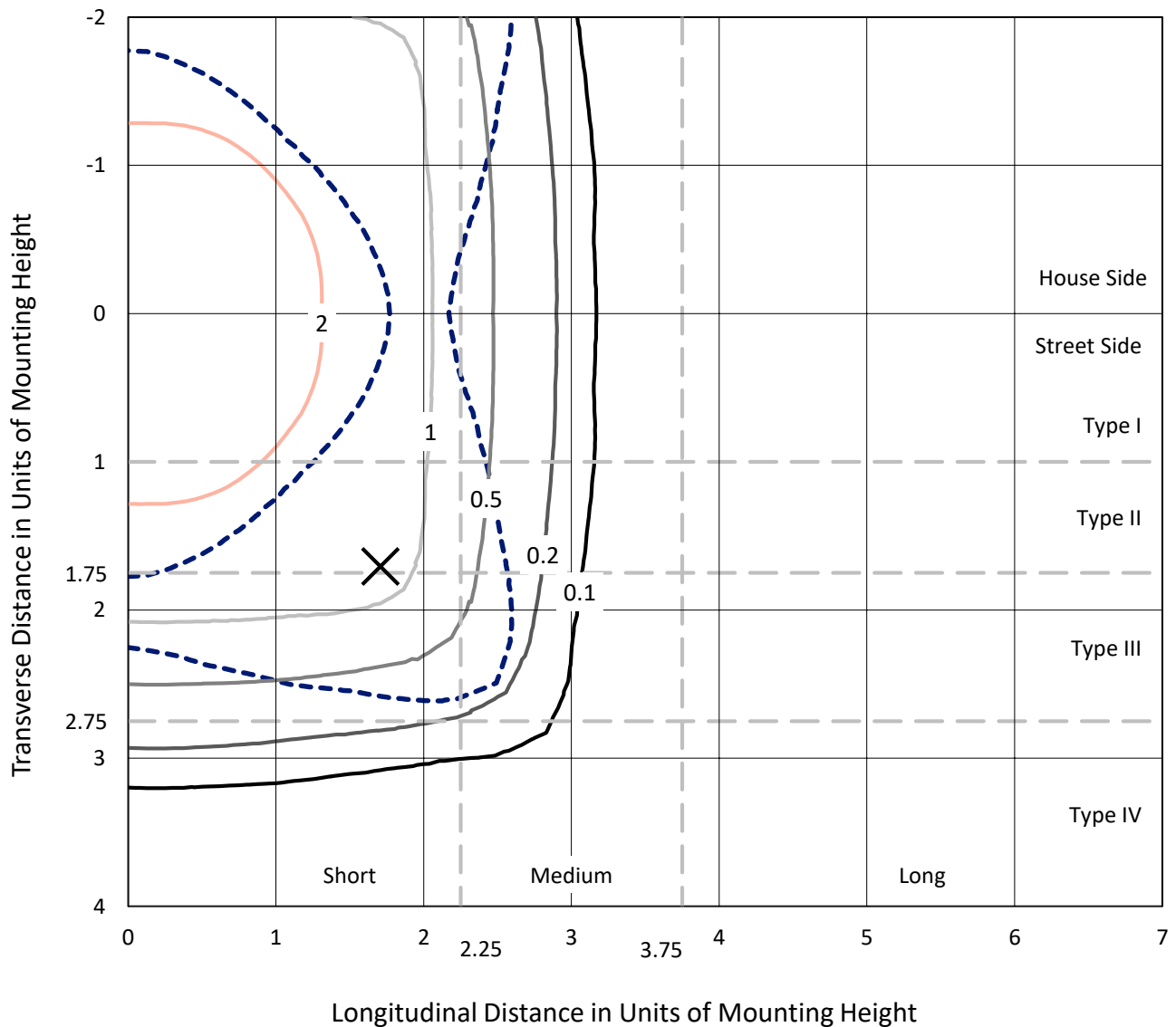


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Iso-Footcandle Lines of Horizontal Illumination

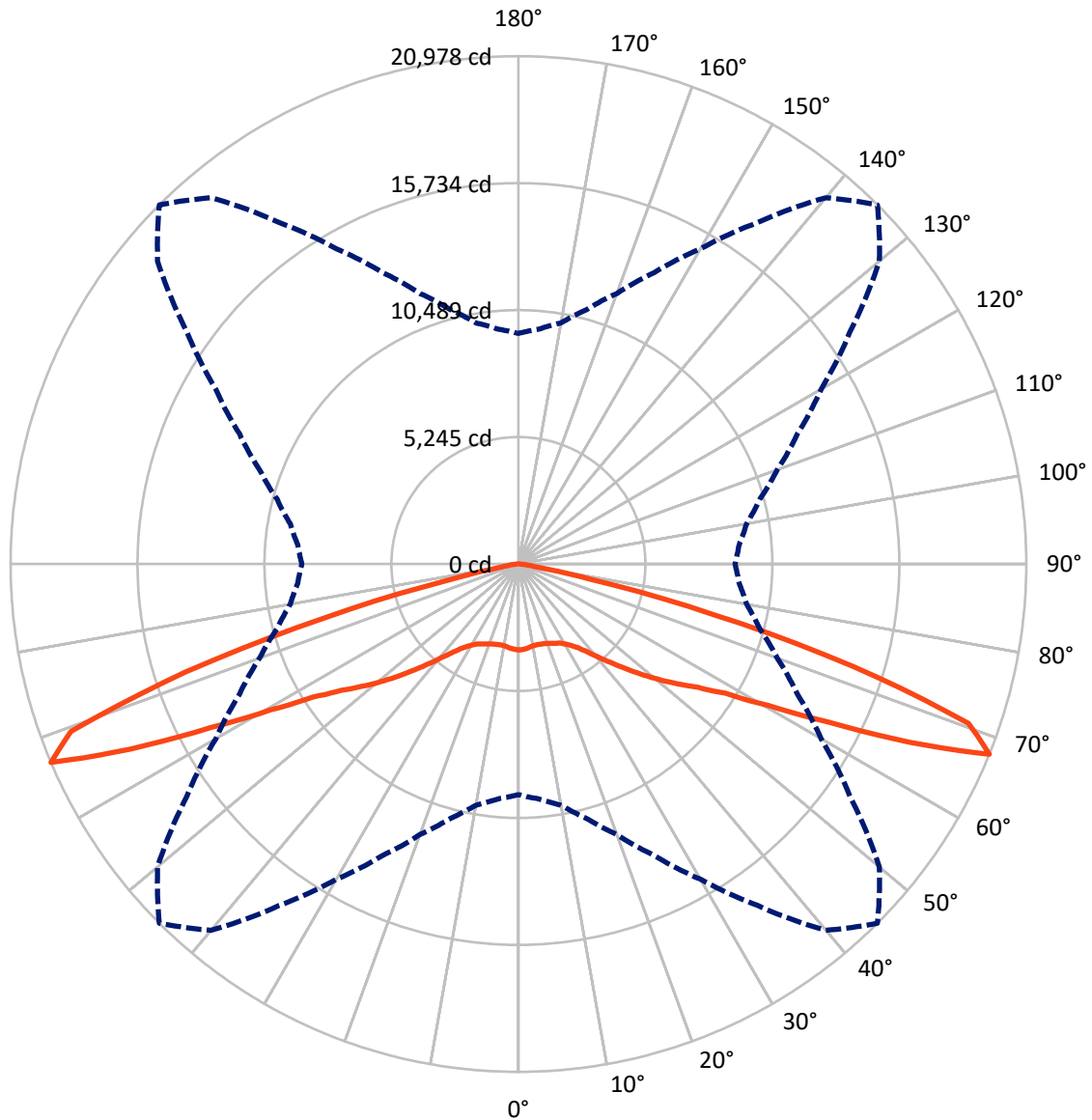
✕ Max cd
 - - - 1/2 Max cd



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	17822.2	0.0	17822.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17822.2	0.0	17822.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	35644.5	0.0	35644.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.5	0.9
10°-20°	964.7	2.7
20°-30°	1640.0	4.6
30°-40°	2681.0	7.5
40°-50°	4786.0	13.4
50°-60°	8069.3	22.6
60°-70°	12522.4	35.1
70°-80°	4399.8	12.3
80°-90°	248.7	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°	35644.5	100.0
0°-180°	35644.5	100.0



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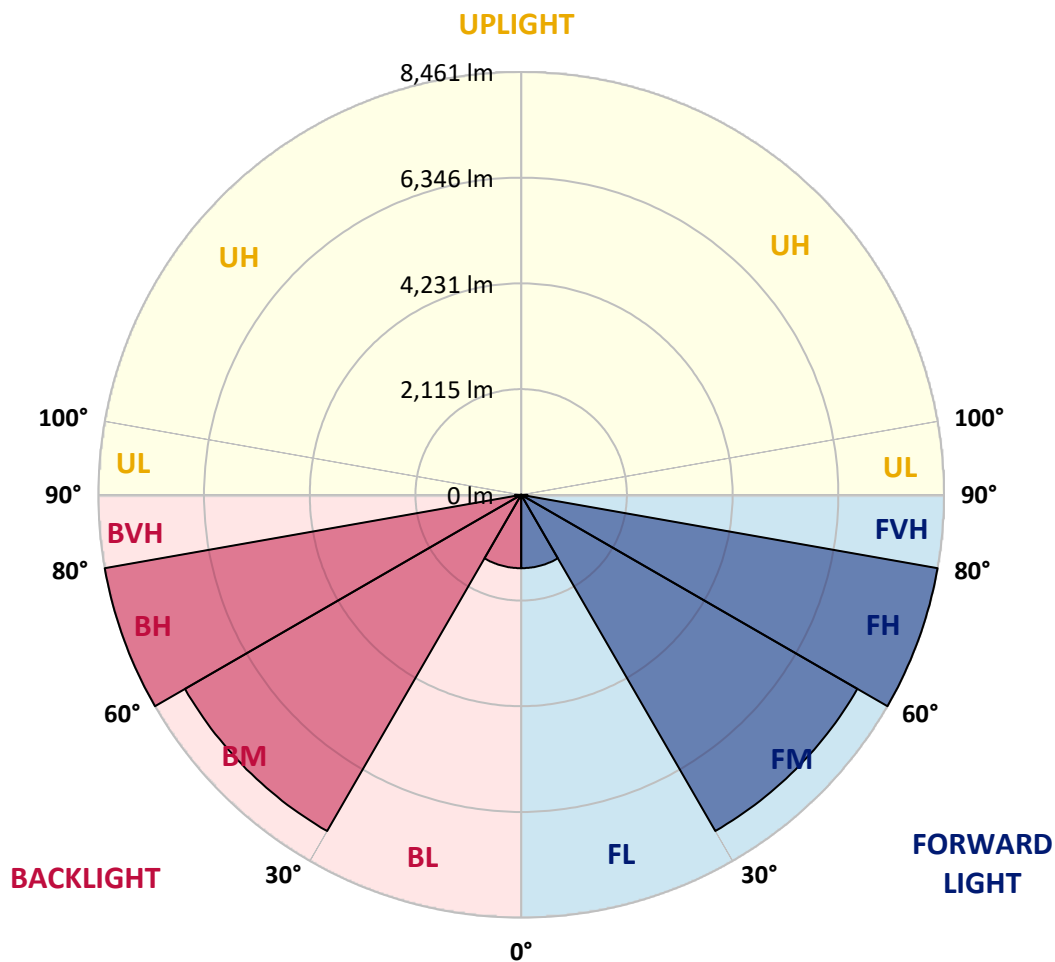
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1468.6	4.1			
FM	(30°-60°)	7768.2	21.8			
FH	(60°-80°)	8461.1	23.7			G4/12000
FVH	(80°-90°)	124.3	0.3			G2/225
BL	(0°-30°)	1468.6	4.1	B3/2500		
BM	(30°-60°)	7768.2	21.8	B4/8500		
BH	(60°-80°)	8461.1	23.7	B5		G4/12000
BVH	(80°-90°)	124.3	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°	3552.1	3552.1	3552.1	3552.1	3552.1	3552.1	3552.1	3552.1	3552.1	3552.1	3552.1
2.5°	3539.1	3542.2	3542.2	3542.2	3540.7	3540.7	3537.3	3540.7	3539.1	3534.1	3535.6
5°	3509.5	3512.8	3512.8	3511.1	3516.1	3514.3	3509.5	3512.8	3511.1	3507.8	3509.5
7.5°	3466.9	3471.8	3471.8	3470.2	3475.1	3473.4	3470.2	3471.8	3471.8	3466.9	3466.9
10°	3419.4	3422.6	3422.6	3420.9	3429.2	3429.2	3427.6	3432.5	3434.1	3429.2	3425.9
12.5°	3375.1	3380.1	3380.1	3386.6	3394.8	3398.1	3406.3	3412.8	3419.4	3417.7	3411.1
15°	3348.8	3352.1	3358.8	3366.8	3380.1	3391.6	3404.5	3419.4	3432.5	3435.7	3425.9
17.5°	3332.4	3337.5	3347.3	3358.8	3376.6	3396.4	3416.1	3435.7	3453.8	3460.4	3448.9
20°	3327.5	3330.8	3340.6	3360.3	3385.0	3414.5	3442.2	3465.2	3489.8	3498.0	3489.8
22.5°	3337.5	3343.9	3355.3	3378.3	3411.1	3448.9	3481.7	3512.8	3544.0	3558.6	3547.1
25°	3381.7	3388.1	3403.0	3432.5	3468.5	3507.8	3545.6	3581.6	3609.5	3624.2	3616.0
27.5°	3463.7	3471.8	3489.8	3519.3	3558.6	3601.2	3642.3	3671.8	3694.6	3699.7	3689.8
30°	3586.6	3604.5	3625.9	3658.6	3704.6	3740.6	3781.7	3807.8	3835.8	3835.8	3827.5
32.5°	3778.4	3796.3	3819.4	3850.4	3886.4	3925.9	3962.0	3984.9	4014.3	4016.1	3996.3
35°	4065.2	4073.4	4093.0	4112.7	4145.5	4180.0	4211.1	4225.8	4250.4	4252.0	4234.0
37.5°	4443.8	4445.5	4458.6	4465.1	4494.7	4532.4	4561.9	4571.7	4594.7	4591.3	4573.4
40°	4884.8	4893.0	4897.9	4907.7	4938.9	4975.0	5006.1	5010.9	5035.5	5030.7	5007.7
42.5°	5394.6	5397.8	5425.8	5440.4	5470.0	5487.9	5527.4	5532.2	5561.8	5548.7	5522.4
45°	5966.6	5996.1	6022.3	6051.9	6083.1	6104.3	6135.5	6129.0	6148.5	6129.0	6114.1
47.5°	6568.2	6589.5	6648.5	6694.4	6745.3	6763.2	6807.5	6788.0	6807.5	6779.7	6774.7
50°	7230.5	7268.1	7319.0	7371.4	7425.5	7455.0	7512.3	7487.8	7514.1	7487.8	7473.1
52.5°	7882.8	7892.7	8004.2	8081.2	8156.6	8191.0	8225.4	8214.0	8215.5	8214.0	8199.2
55°	8502.5	8525.5	8636.8	8741.8	8872.9	8969.7	9028.7	9022.0	9007.3	8992.7	8968.0
57.5°	9200.8	9223.6	9351.5	9481.2	9630.2	9767.9	9887.6	10010.5	10058.1	10071.2	10017.1
60°	10145.0	10143.3	10313.8	10471.2	10684.3	10889.2	11151.4	11418.5	11725.0	11867.7	11679.3
62.5°	11105.4	11144.8	11390.7	11669.4	12108.7	12536.6	13020.0	13495.4	13980.6	14375.7	13956.1
65°	10990.8	11141.6	11507.1	12138.2	12949.5	13913.4	14955.9	16059.1	17055.8	17740.9	16972.1
67.5°	9525.3	9740.1	10112.1	10879.4	11894.0	13284.0	15034.7	17216.3	19752.2	20978.3	19458.8
70°	6904.3	7146.8	7537.0	8286.1	9290.9	10612.0	12513.6	15132.9	18490.1	19726.1	18052.3
72.5°	3435.7	3566.9	3807.8	4284.8	5045.4	6117.5	7841.8	10359.7	13329.9	14464.1	12934.9
75°	1167.1	1227.8	1268.8	1424.4	1665.4	2086.8	2943.9	4529.1	6909.1	8282.8	6810.8
77.5°	673.6	675.3	703.3	731.1	772.1	817.9	932.7	1224.5	2117.8	3008.0	2191.5
80°	436.0	434.4	457.3	478.6	506.6	529.5	536.0	567.2	654.1	775.3	693.4
82.5°	226.3	254.1	304.9	332.7	385.3	395.1	381.9	370.5	391.8	406.6	416.4
85°	124.5	108.2	162.2	209.8	232.8	236.1	236.1	222.9	231.1	226.3	245.9
87.5°	57.4	52.5	63.9	103.2	109.9	93.5	98.4	86.9	62.3	60.6	68.8
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°	3552.1	3552.1	3552.1	3552.1	3552.1	3552.1	3552.1	3552.1
2.5°	3535.6	3537.3	3537.3	3542.2	3544.0	3547.1	3550.6	3552.1
5°	3507.8	3512.8	3509.5	3514.3	3514.3	3517.8	3517.8	3519.3
7.5°	3466.9	3471.8	3471.8	3471.8	3470.2	3475.1	3475.1	3475.1
10°	3424.2	3427.6	3425.9	3422.6	3419.4	3424.2	3422.6	3420.9
12.5°	3411.1	3403.0	3396.4	3393.1	3386.6	3388.1	3383.2	3383.2
15°	3419.4	3404.5	3393.1	3388.1	3381.7	3378.3	3375.1	3376.6
17.5°	3440.7	3422.6	3407.9	3399.6	3391.6	3386.6	3380.1	3381.7
20°	3478.3	3457.0	3435.7	3419.4	3404.5	3396.4	3391.6	3389.8
22.5°	3534.1	3502.9	3471.8	3447.2	3427.6	3416.1	3411.1	3407.9
25°	3598.0	3563.5	3527.6	3499.6	3480.0	3465.2	3455.4	3455.4
27.5°	3678.3	3650.4	3617.7	3584.9	3566.9	3552.1	3545.6	3542.2
30°	3812.8	3786.5	3760.2	3729.1	3706.1	3691.4	3679.9	3670.1
32.5°	3984.9	3963.5	3942.2	3919.2	3897.9	3878.3	3860.2	3852.1
35°	4227.5	4211.1	4196.3	4170.1	4161.8	4150.3	4140.6	4132.5
37.5°	4561.9	4555.3	4555.3	4527.5	4520.9	4516.0	4506.1	4507.8
40°	5001.1	5007.7	4999.5	4989.6	4984.8	4971.7	4971.7	4983.2
42.5°	5520.9	5525.7	5543.7	5527.4	5545.3	5529.0	5519.1	5527.4
45°	6124.0	6142.0	6178.2	6161.7	6173.2	6145.3	6110.9	6112.5
47.5°	6801.0	6817.3	6832.1	6820.7	6822.3	6776.5	6730.6	6719.1
50°	7504.3	7510.8	7519.0	7502.6	7505.9	7455.0	7402.6	7404.2
52.5°	8199.2	8230.5	8263.1	8219.0	8209.0	8151.7	8077.9	8048.5
55°	8994.2	9038.4	9000.7	8923.8	8846.7	8769.7	8673.0	8656.5
57.5°	9974.5	9899.1	9781.0	9635.1	9528.6	9420.4	9322.2	9281.1
60°	11338.2	11054.7	10841.6	10625.2	10489.1	10356.4	10226.9	10207.3
62.5°	13266.0	12775.9	12351.2	11903.8	11538.2	11253.0	11025.2	10961.3
65°	15682.2	14523.2	13518.4	12580.8	11766.1	11151.4	10764.6	10594.2
67.5°	16721.4	14433.1	12710.3	11379.2	10313.8	9569.6	9151.7	8943.4
70°	14693.7	11969.3	10095.7	8763.1	7792.6	6999.4	6620.7	6397.8
72.5°	10108.8	7614.0	6020.7	4914.3	4138.9	3475.1	3212.8	3193.1
75°	4539.0	3006.3	2071.9	1596.6	1344.1	1168.8	1114.6	1073.7
77.5°	1270.4	939.3	837.6	783.5	731.1	670.5	647.5	652.3
80°	617.9	583.5	560.6	526.1	478.6	427.9	404.9	414.7
82.5°	409.7	404.9	419.6	395.1	326.3	276.9	232.8	213.1
85°	249.2	252.5	257.4	259.0	219.6	154.1	104.9	117.9
87.5°	98.4	113.0	123.0	127.9	119.7	73.8	59.0	60.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)