

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: P268565

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268565
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
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-5NQ-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31905 lumens
Efficiency: N/A
Efficacy: 95.8 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 - G2

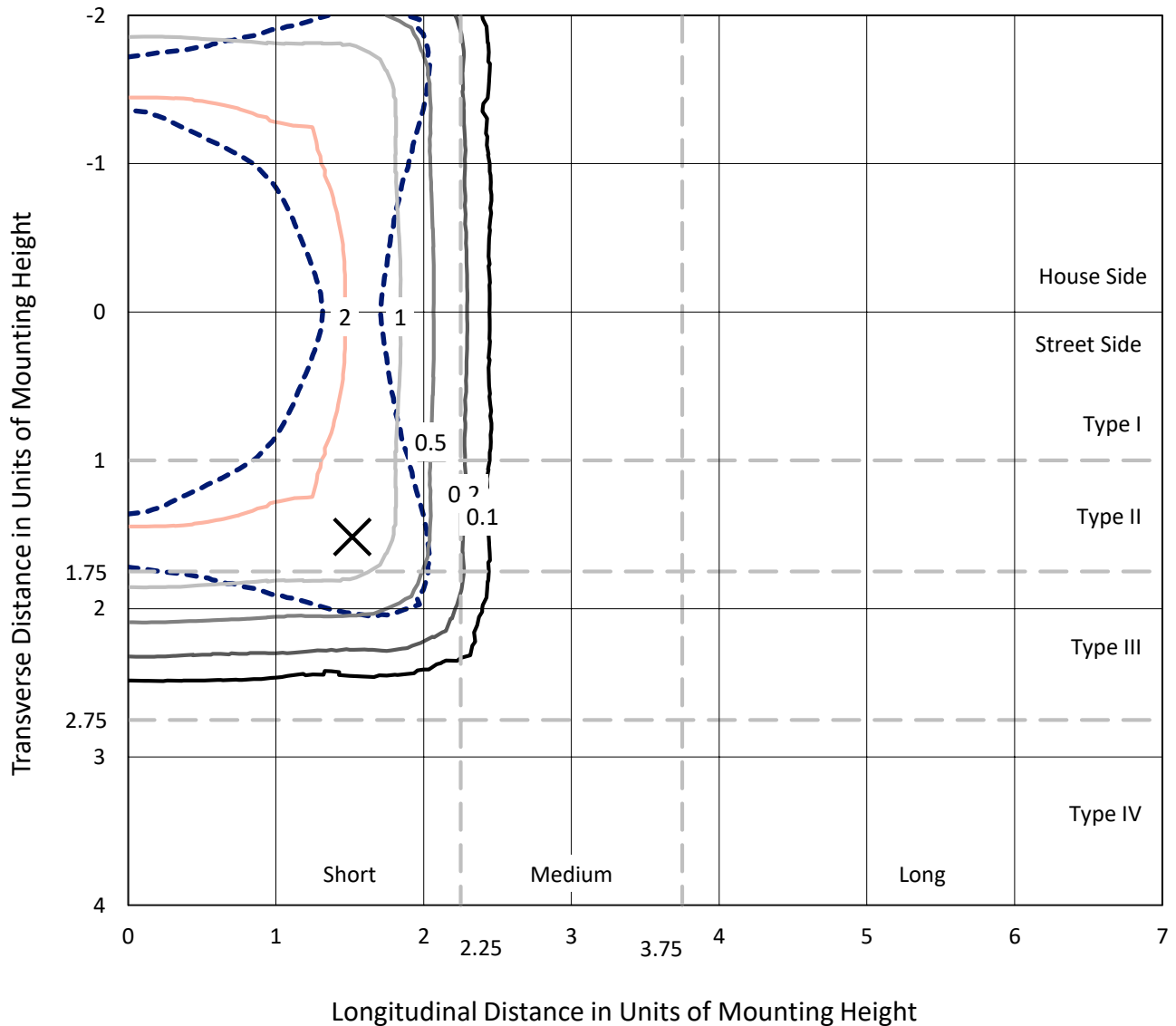
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

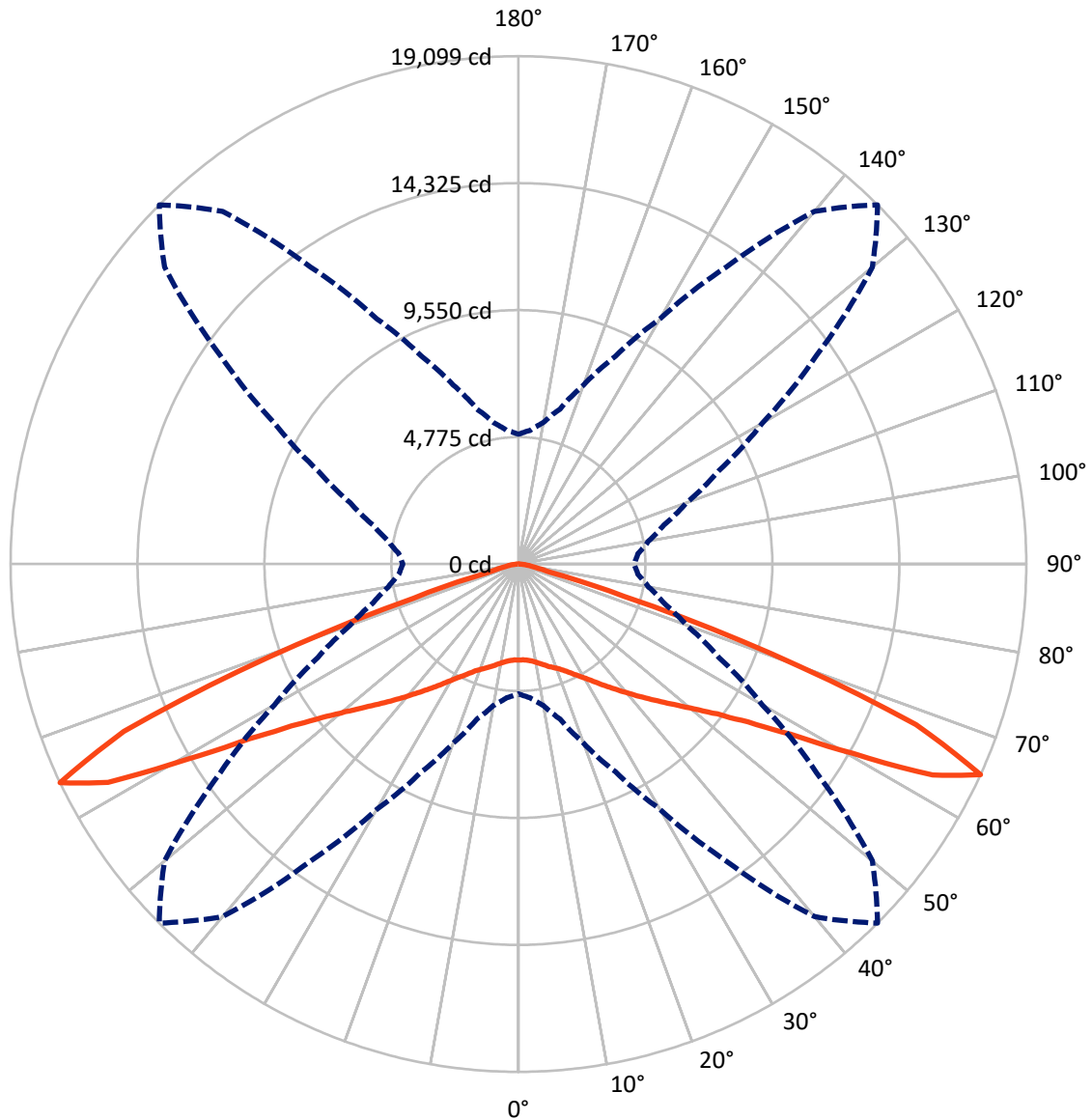
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15952.5	0.0	15952.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15952.5	0.0	15952.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	31905.0	0.0	31905.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.9	1.1
10°-20°	1128.5	3.5
20°-30°	2110.1	6.6
30°-40°	3568.7	11.2
40°-50°	5835.3	18.3
50°-60°	9279.0	29.1
60°-70°	8387.6	26.3
70°-80°	1061.5	3.3
80°-90°	182.6	0.6
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°	31905.0	100.0
0°-180°	31905.0	100.0

Coefficient of Utilization



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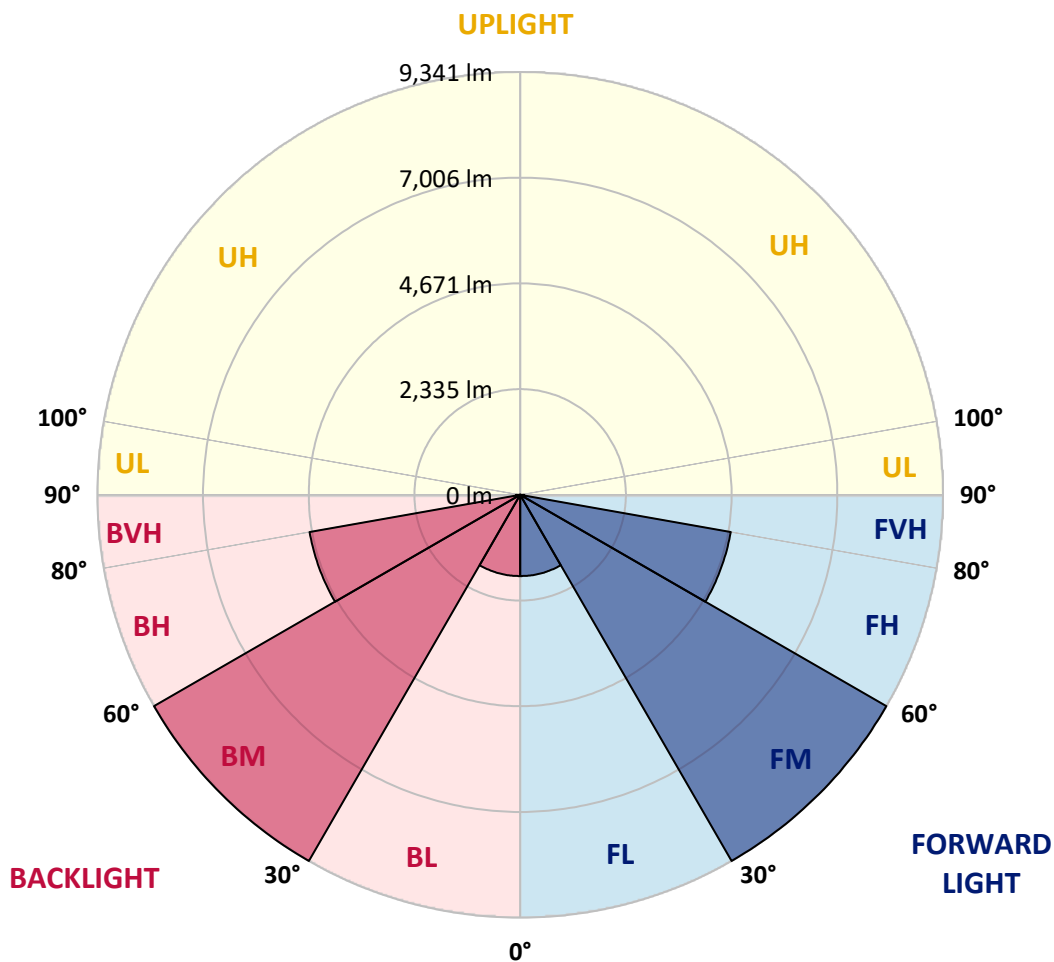
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1795.2	5.6			
FM	(30°-60°)	9341.5	29.3			
FH	(60°-80°)	4724.5	14.8			G2/5000
FVH	(80°-90°)	91.3	0.3			G1/100
BL	(0°-30°)	1795.2	5.6	B3/2500		
BM	(30°-60°)	9341.5	29.3	B5		
BH	(60°-80°)	4724.5	14.8	B4/5000		G2/5000
BVH	(80°-90°)	91.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3610.1	3610.1	3610.1	3610.1	3610.1	3610.1	3610.1	3610.1	3610.1	3610.1	3610.1
2.5°	3613.1	3616.0	3619.0	3616.0	3619.0	3614.6	3611.5	3616.0	3611.5	3607.1	3610.1
5°	3644.5	3646.0	3646.0	3641.5	3646.0	3642.9	3638.4	3644.5	3639.9	3635.5	3638.4
7.5°	3696.7	3702.8	3698.2	3693.7	3696.7	3693.7	3690.7	3692.3	3690.7	3686.3	3687.8
10°	3767.0	3771.4	3768.5	3767.0	3769.9	3768.5	3765.4	3764.0	3765.4	3760.9	3760.9
12.5°	3852.1	3850.7	3849.1	3850.7	3855.2	3855.2	3853.5	3855.2	3858.1	3859.6	3856.7
15°	3935.8	3938.8	3938.8	3938.8	3947.8	3955.2	3959.6	3962.8	3968.7	3970.1	3964.2
17.5°	4040.3	4040.3	4038.9	4040.3	4049.4	4061.3	4065.8	4071.7	4077.8	4082.3	4074.8
20°	4156.9	4160.0	4160.0	4162.9	4175.0	4188.3	4188.3	4191.3	4188.3	4191.3	4186.8
22.5°	4298.8	4307.9	4307.9	4309.3	4321.3	4337.7	4333.2	4337.7	4330.3	4336.3	4330.3
25°	4484.2	4497.6	4494.7	4494.7	4503.7	4514.2	4515.6	4524.6	4523.1	4530.5	4526.0
27.5°	4693.4	4714.3	4720.2	4718.7	4724.7	4735.2	4738.2	4748.7	4742.7	4748.7	4745.7
30°	4944.5	4953.3	4965.3	4969.9	4977.2	4987.7	4987.7	4989.2	4981.8	4990.8	4995.3
32.5°	5204.4	5220.9	5232.7	5259.7	5273.1	5280.6	5279.1	5282.2	5274.7	5286.5	5295.6
35°	5548.1	5560.1	5579.5	5600.5	5618.3	5616.8	5612.3	5613.9	5613.9	5624.3	5633.4
37.5°	5962.1	5964.9	5990.3	6020.4	6029.2	6020.4	5993.4	5987.5	5974.0	5987.5	6002.4
40°	6399.9	6410.2	6461.1	6480.6	6485.0	6468.5	6429.7	6407.3	6377.3	6393.9	6414.7
42.5°	6858.5	6879.5	6925.8	6960.2	6975.1	6964.6	6910.8	6876.4	6837.5	6846.6	6867.5
45°	7366.6	7392.0	7457.6	7490.5	7519.1	7502.6	7450.3	7397.9	7336.6	7341.2	7374.0
47.5°	7934.4	7959.8	8045.0	8100.2	8115.2	8112.2	8053.9	7982.2	7898.5	7895.6	7923.9
50°	8570.9	8596.3	8702.4	8787.6	8830.9	8826.4	8757.7	8656.1	8554.5	8555.9	8591.8
52.5°	9192.5	9223.8	9334.5	9480.9	9566.1	9627.3	9585.5	9489.9	9365.9	9368.9	9401.8
55°	9775.3	9827.5	9954.6	10153.4	10311.7	10483.6	10532.8	10529.8	10455.2	10476.0	10508.9
57.5°	10057.8	10135.3	10331.1	10644.9	10967.6	11317.3	11613.2	11834.4	11928.5	12070.4	12037.6
60°	9522.8	9646.8	9935.2	10396.9	11034.9	11764.2	12545.5	13309.2	13960.6	14452.2	14169.9
62.5°	7796.8	7958.3	8308.0	8899.7	9864.9	11031.9	12527.7	14332.6	16299.0	17485.5	16638.2
65°	4878.6	5046.0	5401.7	6035.3	7164.8	8615.7	10644.9	13636.5	17310.7	19099.4	17374.9
67.5°	1902.3	1993.2	2186.0	2591.0	3439.7	4730.7	6767.4	10162.3	14556.9	16124.2	14286.4
70°	953.3	962.3	998.1	1072.8	1255.1	1630.2	2480.4	4711.3	8348.3	10083.0	8047.9
72.5°	688.8	690.3	708.3	741.1	799.4	883.2	1044.5	1441.9	2715.0	4149.5	2544.7
75°	527.5	533.5	544.0	561.8	593.2	635.0	693.3	830.8	1029.5	1193.8	1004.1
77.5°	406.5	418.4	425.8	442.2	461.6	490.1	506.6	558.8	650.1	684.4	673.9
80°	309.2	319.7	336.1	349.6	363.1	376.6	370.6	394.4	442.2	470.7	455.7
82.5°	197.3	209.1	257.1	269.0	274.9	284.0	273.4	274.9	295.8	313.8	295.8
85°	127.0	134.4	162.9	177.9	179.3	185.3	180.7	170.4	170.4	155.3	174.8
87.5°	58.3	59.7	73.2	86.6	89.7	80.7	79.2	76.1	61.3	58.3	62.7
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°	3610.1	3610.1	3610.1	3610.1	3610.1	3610.1	3610.1	3610.1
2.5°	3608.6	3611.5	3613.1	3617.6	3619.0	3619.0	3620.4	3623.6
5°	3637.0	3641.5	3642.9	3648.9	3650.4	3648.9	3651.9	3653.3
7.5°	3687.8	3695.3	3698.2	3704.3	3699.7	3705.7	3707.1	3707.1
10°	3762.6	3769.9	3771.4	3777.5	3774.5	3777.5	3777.5	3774.5
12.5°	3861.2	3862.6	3858.1	3862.6	3856.7	3859.6	3855.2	3852.1
15°	3970.1	3965.7	3955.2	3955.2	3946.3	3947.8	3946.3	3944.7
17.5°	4076.2	4067.3	4059.8	4056.8	4049.4	4047.9	4043.5	4043.5
20°	4192.7	4188.3	4183.9	4177.8	4170.4	4162.9	4161.5	4164.5
22.5°	4333.2	4331.7	4331.7	4328.8	4318.3	4310.8	4306.4	4306.4
25°	4521.6	4508.1	4508.1	4506.5	4502.1	4497.6	4488.7	4493.1
27.5°	4733.7	4726.3	4732.2	4730.7	4726.3	4726.3	4720.2	4720.2
30°	4995.3	4992.2	5001.3	4993.8	4978.8	4977.2	4971.3	4963.9
32.5°	5297.0	5294.2	5307.5	5298.6	5274.7	5261.3	5249.2	5243.2
35°	5633.4	5634.8	5651.1	5645.2	5618.3	5609.3	5588.4	5585.4
37.5°	6000.9	6024.8	6053.1	6059.1	6036.7	6030.7	6008.4	5996.4
40°	6432.7	6464.1	6507.4	6517.8	6493.9	6489.4	6458.1	6441.7
42.5°	6893.0	6946.8	7000.5	7009.5	6985.5	6961.7	6931.7	6919.9
45°	7407.0	7471.2	7541.5	7559.3	7523.5	7495.1	7456.2	7456.2
47.5°	7983.6	8064.4	8143.6	8192.9	8160.1	8130.1	8083.8	8053.9
50°	8665.1	8775.6	8878.8	8929.5	8877.2	8820.5	8739.8	8712.9
52.5°	9519.8	9639.4	9729.0	9702.1	9621.3	9542.2	9454.0	9418.2
55°	10610.6	10650.9	10650.9	10549.2	10387.9	10255.0	10116.0	10069.6
57.5°	11974.8	11819.4	11580.3	11277.1	10895.9	10564.2	10340.1	10234.0
60°	13578.2	12831.0	11986.8	11157.5	10476.0	9914.2	9581.1	9428.6
62.5°	14646.4	12692.1	11000.6	9669.1	8688.9	8012.2	7551.8	7372.6
65°	13688.7	10585.2	8319.9	6727.0	5658.7	4969.9	4514.2	4346.7
67.5°	10026.3	6632.9	4430.4	3175.2	2326.5	1855.9	1669.1	1591.3
70°	4500.7	2335.6	1431.4	1117.8	963.8	884.7	850.2	838.3
72.5°	1356.8	981.7	827.8	747.1	685.9	647.0	618.7	615.6
75°	818.9	681.4	605.2	557.4	518.5	487.2	472.1	467.7
77.5°	572.3	500.5	464.8	430.4	400.5	376.6	363.1	352.7
80°	401.9	367.5	351.1	331.7	312.3	290.0	270.5	261.4
82.5°	269.0	261.4	261.4	249.5	233.1	212.2	173.4	164.4
85°	173.4	171.8	174.8	170.4	158.5	136.0	112.1	106.1
87.5°	80.7	82.1	91.2	89.7	86.6	71.8	56.9	53.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)