

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: P191653

Luminaire Tested: **GAN-AF-05-LED-U-5NQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191653
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-05-LED-U-5NQ-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 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: 30688 lumens
Efficiency: N/A
Efficacy: 110.0 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

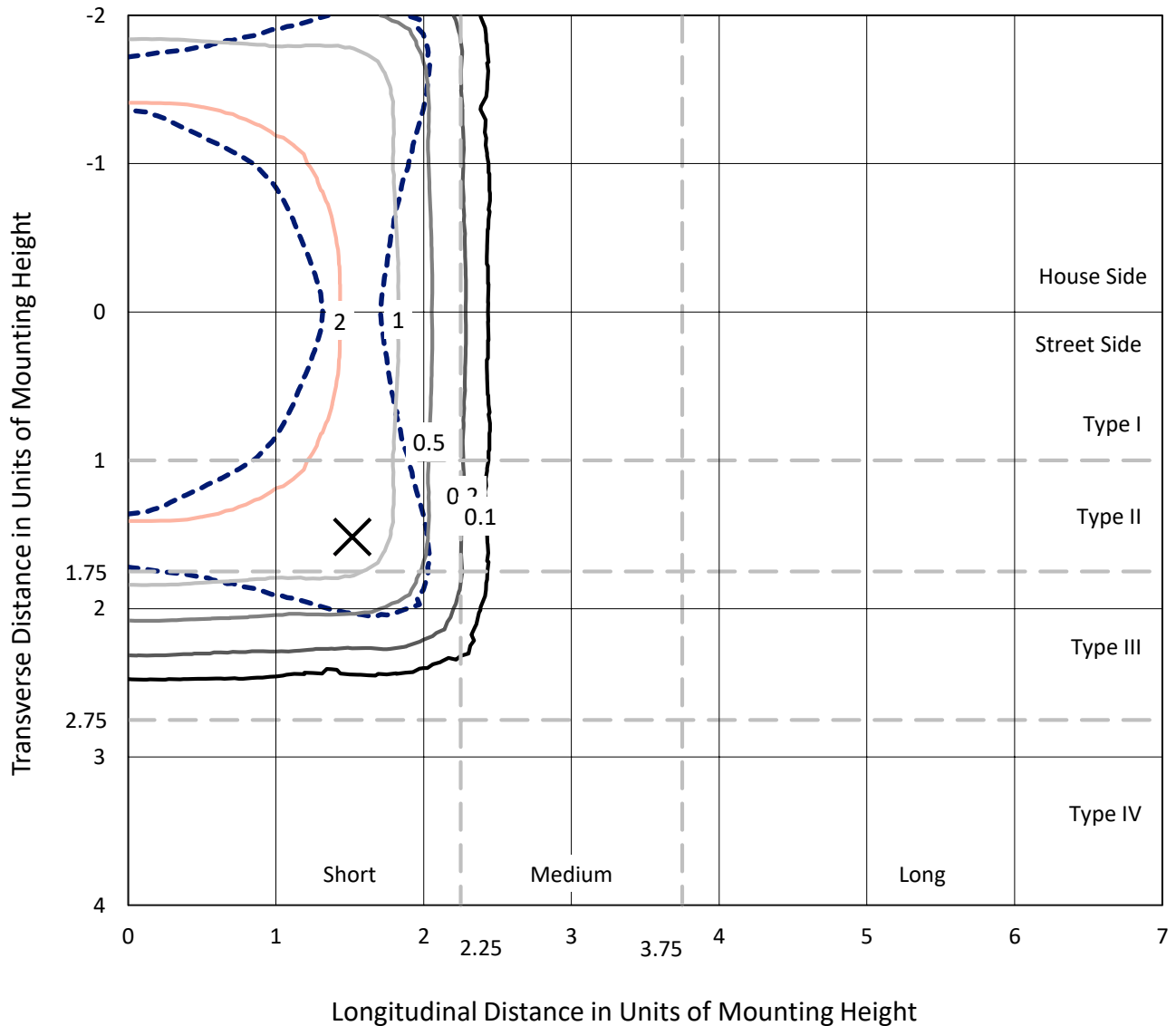
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

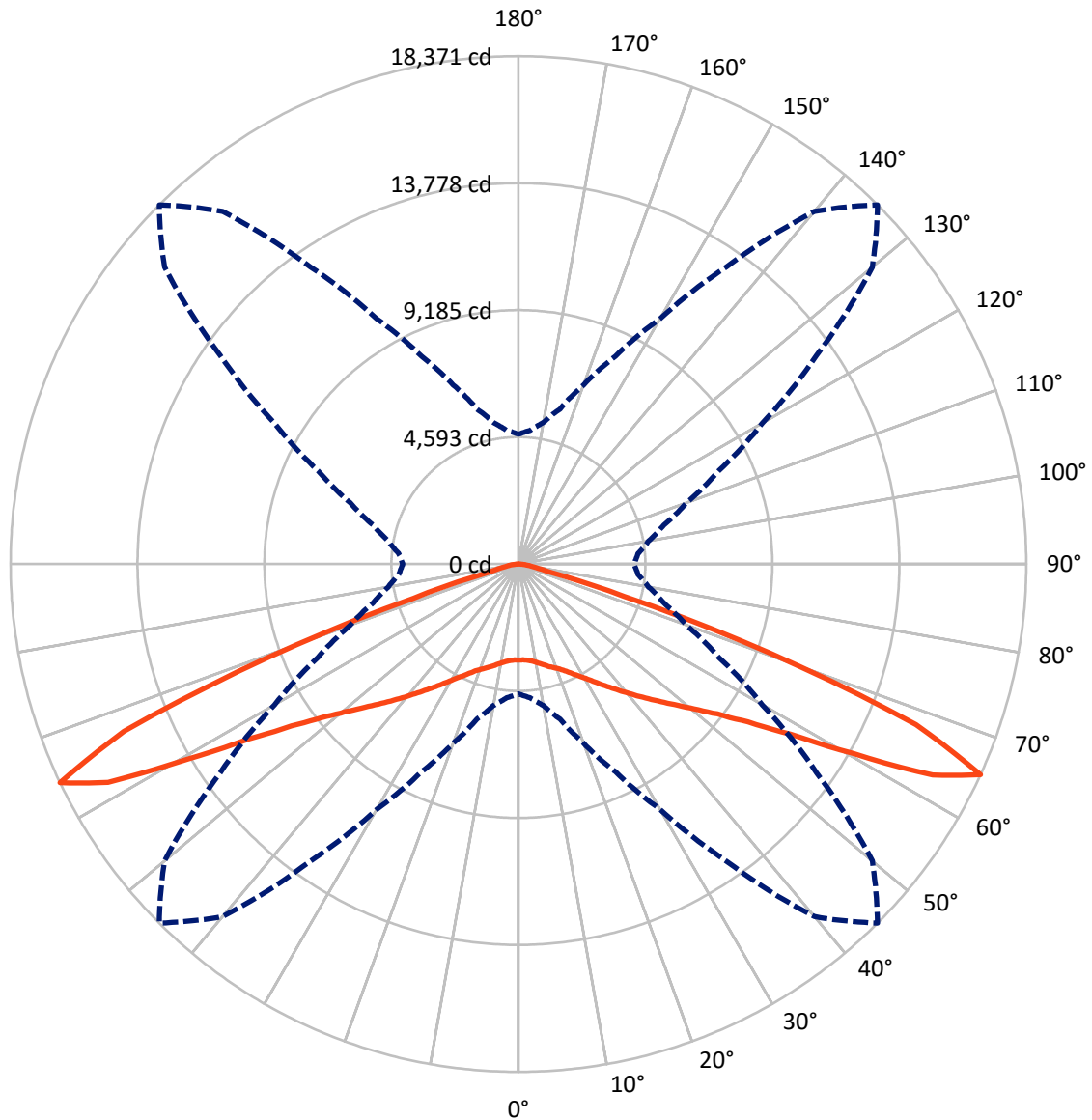
× Max cd
 - - - 1/2 Max cd



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 65-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15344.0	0.0	15344.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15344.0	0.0	15344.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	30688.0	0.0	30688.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.4	1.1
10°-20°	1085.5	3.5
20°-30°	2029.6	6.6
30°-40°	3432.6	11.2
40°-50°	5612.7	18.3
50°-60°	8925.0	29.1
60°-70°	8067.6	26.3
70°-80°	1021.0	3.3
80°-90°	175.6	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°	30688.0	100.0
0°-180°	30688.0	100.0

Coefficient of Utilization



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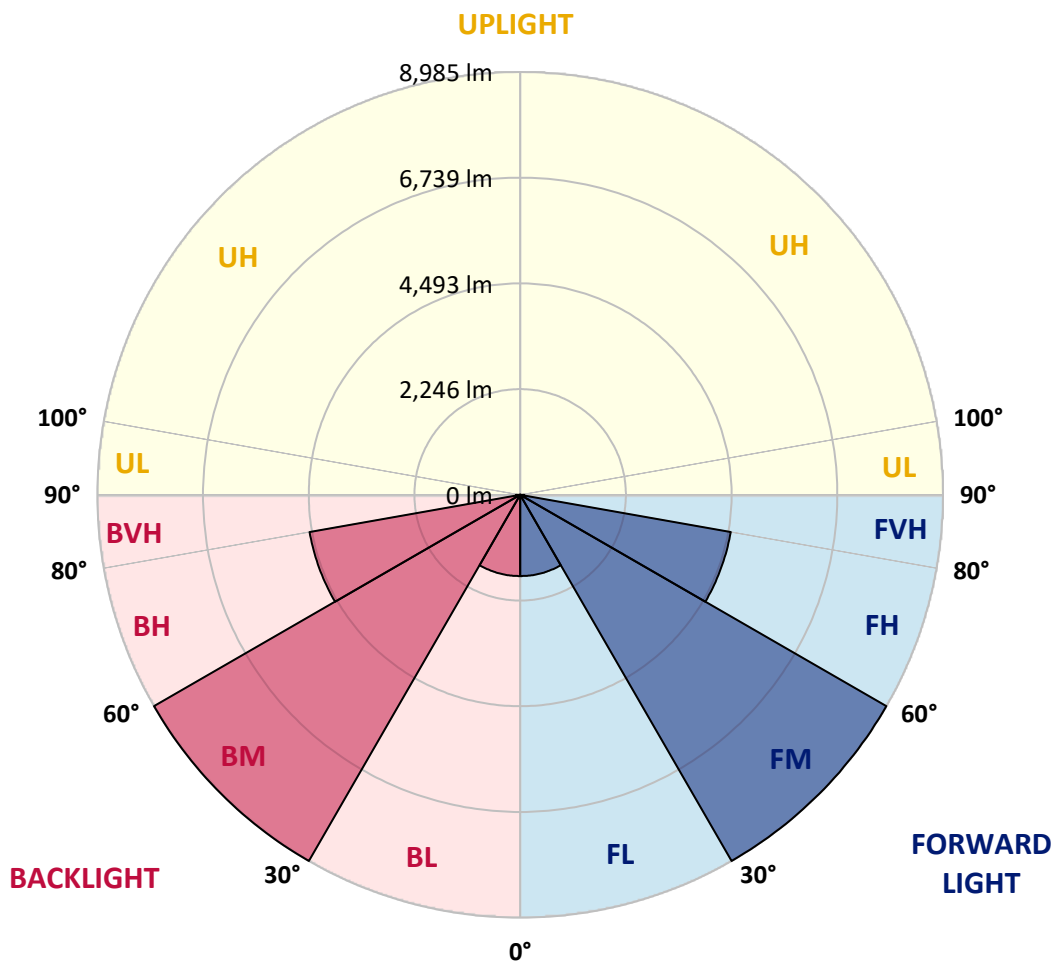
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1726.7	5.6			
FM	(30°-60°)	8985.1	29.3			
FH	(60°-80°)	4544.3	14.8			G2/5000
FVH	(80°-90°)	87.8	0.3			G1/100
BL	(0°-30°)	1726.7	5.6	B3/2500		
BM	(30°-60°)	8985.1	29.3	B5		
BH	(60°-80°)	4544.3	14.8	B4/5000		G2/5000
BVH	(80°-90°)	87.8	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°	3472.4	3472.4	3472.4	3472.4	3472.4	3472.4	3472.4	3472.4	3472.4	3472.4	3472.4
2.5°	3475.2	3478.1	3481.0	3478.1	3481.0	3476.7	3473.8	3478.1	3473.8	3469.5	3472.4
5°	3505.4	3506.9	3506.9	3502.5	3506.9	3504.0	3499.7	3505.4	3501.1	3496.8	3499.7
7.5°	3555.7	3561.5	3557.2	3552.8	3555.7	3552.8	3550.0	3551.4	3550.0	3545.7	3547.1
10°	3623.3	3627.6	3624.7	3623.3	3626.1	3624.7	3621.8	3620.4	3621.8	3617.5	3617.5
12.5°	3705.2	3703.8	3702.3	3703.8	3708.1	3708.1	3706.6	3708.1	3710.9	3712.4	3709.5
15°	3785.7	3788.6	3788.6	3788.6	3797.2	3804.4	3808.7	3811.6	3817.3	3818.7	3813.0
17.5°	3886.3	3886.3	3884.9	3886.3	3894.9	3906.4	3910.7	3916.5	3922.2	3926.5	3919.3
20°	3998.4	4001.3	4001.3	4004.1	4015.6	4028.6	4028.6	4031.4	4028.6	4031.4	4027.1
22.5°	4134.9	4143.6	4143.6	4145.0	4156.5	4172.3	4168.0	4172.3	4165.1	4170.9	4165.1
25°	4313.1	4326.1	4323.2	4323.2	4331.8	4341.9	4343.3	4352.0	4350.5	4357.7	4353.4
27.5°	4514.4	4534.5	4540.2	4538.8	4544.5	4554.6	4557.5	4567.5	4561.8	4567.5	4564.7
30°	4755.8	4764.4	4775.9	4780.2	4787.4	4797.5	4797.5	4798.9	4791.7	4800.4	4804.7
32.5°	5005.9	5021.7	5033.2	5059.1	5072.0	5079.2	5077.8	5080.6	5073.4	5084.9	5093.6
35°	5336.5	5348.0	5366.6	5386.8	5404.0	5402.6	5398.3	5399.7	5399.7	5409.8	5418.4
37.5°	5734.6	5737.4	5761.9	5790.6	5799.2	5790.6	5764.8	5759.0	5746.1	5759.0	5773.4
40°	6155.7	6165.7	6214.6	6233.3	6237.6	6221.8	6184.4	6162.9	6134.1	6149.9	6170.1
42.5°	6596.9	6617.0	6661.6	6694.6	6709.0	6699.0	6647.2	6614.2	6576.8	6585.4	6605.5
45°	7085.6	7110.0	7173.2	7204.9	7232.2	7216.4	7166.1	7115.8	7056.8	7061.1	7092.8
47.5°	7631.7	7656.2	7738.1	7791.3	7805.6	7802.8	7746.7	7677.7	7597.2	7594.4	7621.7
50°	8244.0	8268.4	8370.5	8452.4	8494.1	8489.8	8423.6	8325.9	8228.2	8229.6	8264.1
52.5°	8841.9	8872.1	8978.4	9119.3	9201.2	9260.1	9219.9	9127.9	9008.6	9011.5	9043.1
55°	9402.4	9452.7	9574.9	9766.0	9918.4	10083.7	10131.1	10128.2	10056.3	10076.5	10108.1
57.5°	9674.0	9748.8	9937.1	10238.9	10549.3	10885.6	11170.2	11382.9	11473.5	11610.0	11578.4
60°	9159.5	9278.8	9556.2	10000.3	10614.0	11315.4	12067.0	12801.5	13428.1	13901.0	13629.3
62.5°	7499.5	7654.7	7991.0	8560.2	9488.6	10611.1	12049.8	13786.0	15677.4	16818.5	16003.6
65°	4692.6	4853.5	5195.6	5805.0	6891.5	8287.1	10238.9	13116.2	16650.4	18370.8	16712.2
67.5°	1829.6	1917.3	2102.7	2492.2	3308.5	4550.3	6509.2	9774.6	14001.6	15509.2	13741.4
70°	917.0	925.6	960.1	1031.9	1207.3	1568.0	2385.8	4531.6	8029.8	9698.5	7741.0
72.5°	662.6	664.0	681.3	712.9	768.9	849.4	1004.6	1386.9	2611.5	3991.2	2447.6
75°	507.3	513.1	523.2	540.4	570.6	610.8	666.9	799.1	990.3	1148.4	965.8
77.5°	390.9	402.4	409.6	425.4	444.1	471.4	487.2	537.5	625.2	658.3	648.2
80°	297.5	307.6	323.4	336.3	349.2	362.2	356.4	379.4	425.4	452.7	438.4
82.5°	189.7	201.2	247.2	258.7	264.5	273.1	263.0	264.5	284.6	301.8	284.6
85°	122.2	129.4	156.7	171.0	172.5	178.2	173.9	163.8	163.8	149.5	168.2
87.5°	56.1	57.5	70.4	83.4	86.2	77.6	76.2	73.3	58.9	56.1	60.4
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°	3472.4	3472.4	3472.4	3472.4	3472.4	3472.4	3472.4	3472.4
2.5°	3470.9	3473.8	3475.2	3479.5	3481.0	3481.0	3482.4	3485.3
5°	3498.2	3502.5	3504.0	3509.7	3511.2	3509.7	3512.6	3514.0
7.5°	3547.1	3554.3	3557.2	3562.9	3558.6	3564.3	3565.8	3565.8
10°	3619.0	3626.1	3627.6	3633.3	3630.5	3633.3	3633.3	3630.5
12.5°	3713.8	3715.3	3710.9	3715.3	3709.5	3712.4	3708.1	3705.2
15°	3818.7	3814.4	3804.4	3804.4	3795.7	3797.2	3795.7	3794.3
17.5°	3920.8	3912.2	3905.0	3902.1	3894.9	3893.5	3889.2	3889.2
20°	4032.9	4028.6	4024.3	4018.5	4011.3	4004.1	4002.7	4005.6
22.5°	4168.0	4166.5	4166.5	4163.7	4153.6	4146.4	4142.1	4142.1
25°	4349.1	4336.1	4336.1	4334.7	4330.4	4326.1	4317.5	4321.8
27.5°	4553.2	4546.0	4551.7	4550.3	4546.0	4546.0	4540.2	4540.2
30°	4804.7	4801.8	4810.4	4803.2	4788.9	4787.4	4781.7	4774.5
32.5°	5095.0	5092.1	5105.1	5096.4	5073.4	5060.5	5049.0	5043.3
35°	5418.4	5419.8	5435.6	5429.9	5404.0	5395.4	5375.3	5372.4
37.5°	5771.9	5794.9	5822.2	5828.0	5806.4	5800.7	5779.1	5767.6
40°	6187.3	6217.5	6259.2	6269.2	6246.2	6241.9	6211.7	6195.9
42.5°	6630.0	6681.7	6733.5	6742.1	6719.1	6696.1	6667.3	6655.8
45°	7124.4	7186.2	7253.7	7271.0	7236.5	7209.2	7171.8	7171.8
47.5°	7679.2	7756.8	7832.9	7880.4	7848.7	7820.0	7775.5	7746.7
50°	8334.5	8440.9	8540.1	8588.9	8538.6	8484.0	8406.4	8380.5
52.5°	9156.6	9271.6	9357.8	9332.0	9254.4	9178.2	9093.4	9058.9
55°	10205.8	10244.6	10244.6	10146.9	9991.7	9863.8	9730.1	9685.5
57.5°	11518.0	11368.5	11138.6	10846.8	10480.3	10161.3	9945.7	9843.6
60°	13060.2	12341.6	11529.5	10731.8	10076.5	9536.1	9215.6	9069.0
62.5°	14087.8	12207.9	10580.9	9300.4	8357.5	7706.5	7263.8	7091.3
65°	13166.5	10181.4	8002.5	6470.4	5442.8	4780.2	4341.9	4180.9
67.5°	9643.9	6379.9	4261.4	3054.1	2237.8	1785.0	1605.4	1530.7
70°	4329.0	2246.4	1376.9	1075.1	927.0	850.8	817.8	806.3
72.5°	1305.0	944.3	796.2	718.6	659.7	622.3	595.0	592.1
75°	787.6	655.4	582.1	536.1	498.7	468.5	454.2	449.9
77.5°	550.5	481.5	447.0	413.9	385.2	362.2	349.2	339.2
80°	386.6	353.6	337.8	319.1	300.4	278.8	260.1	251.5
82.5°	258.7	251.5	251.5	240.0	224.2	204.1	166.7	158.1
85°	166.7	165.3	168.2	163.8	152.3	130.8	107.8	102.0
87.5°	77.6	79.0	87.7	86.2	83.4	69.0	54.6	51.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)