

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: P192547

Luminaire Tested: **GAN-AF-09-LED-U-5MQ-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192547
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-09-LED-U-5MQ-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43681.8 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 374
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

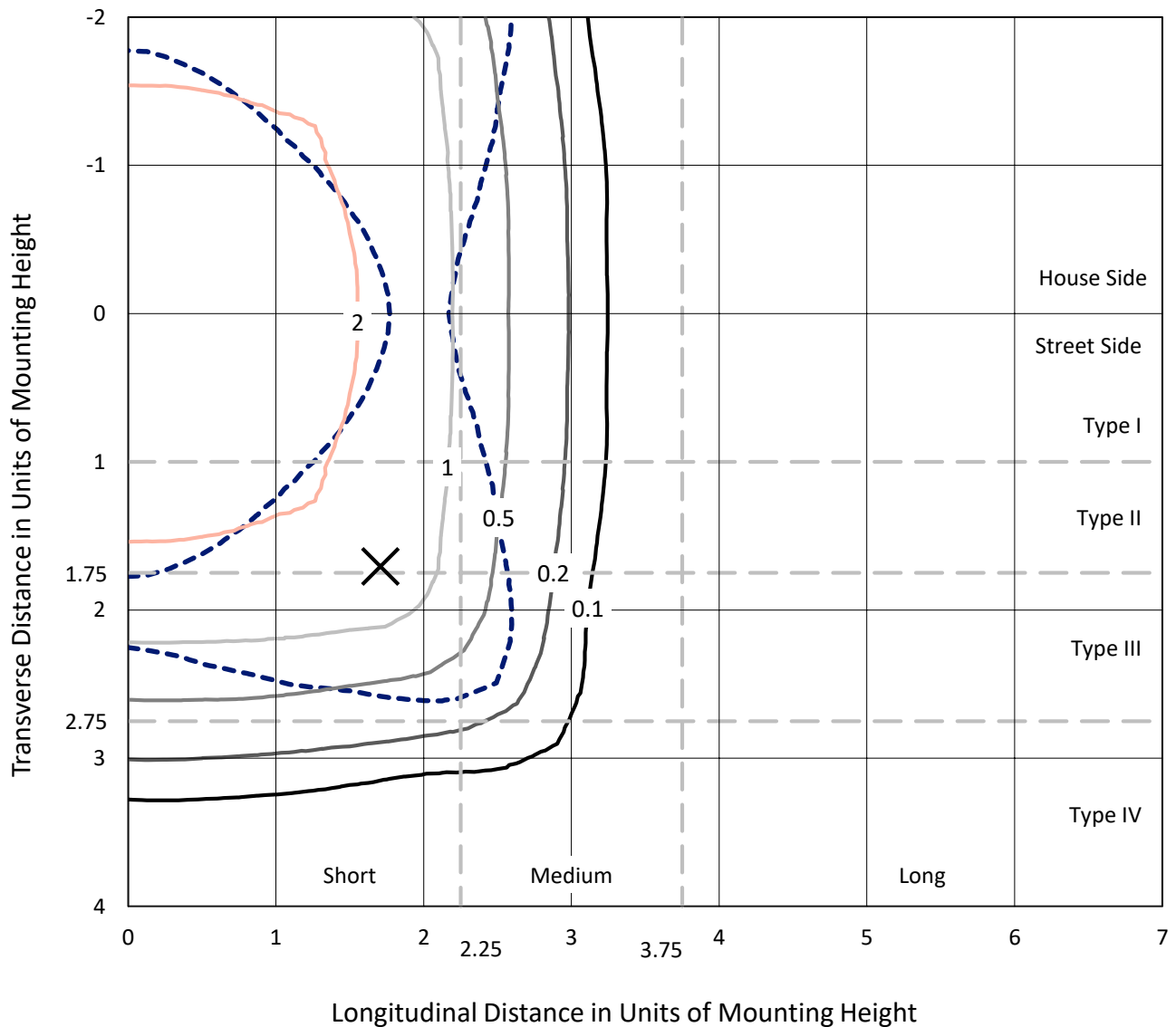


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Iso-Footcandle Lines of Horizontal Illumination

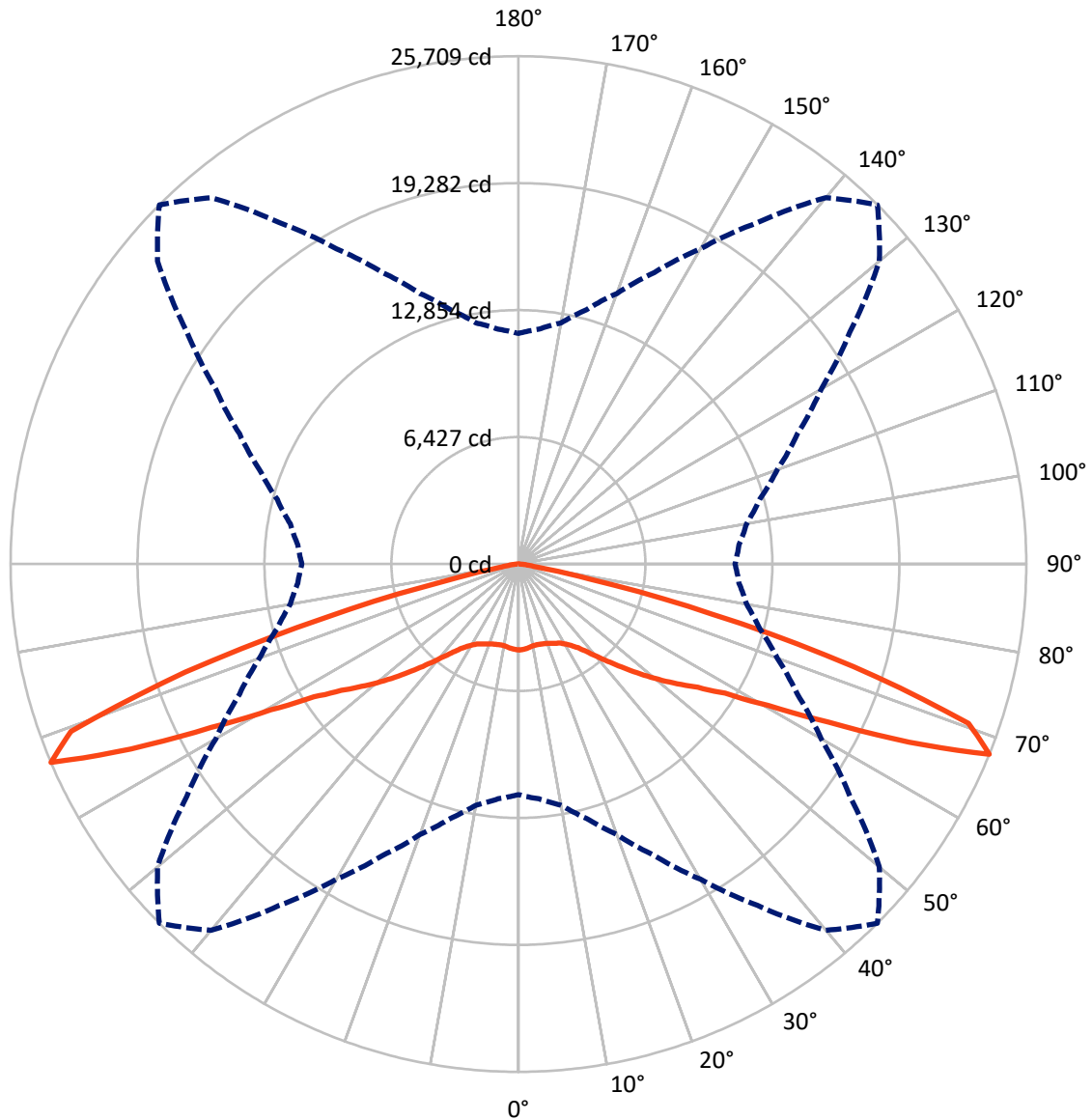
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.8 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	21840.9	0.0	21840.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21840.9	0.0	21840.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	43681.8	0.0	43681.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.4	0.9
10°-20°	1182.3	2.7
20°-30°	2009.8	4.6
30°-40°	3285.5	7.5
40°-50°	5865.2	13.4
50°-60°	9888.9	22.6
60°-70°	15346.1	35.1
70°-80°	5391.9	12.3
80°-90°	304.7	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°	43681.8	100.0
0°-180°	43681.8	100.0



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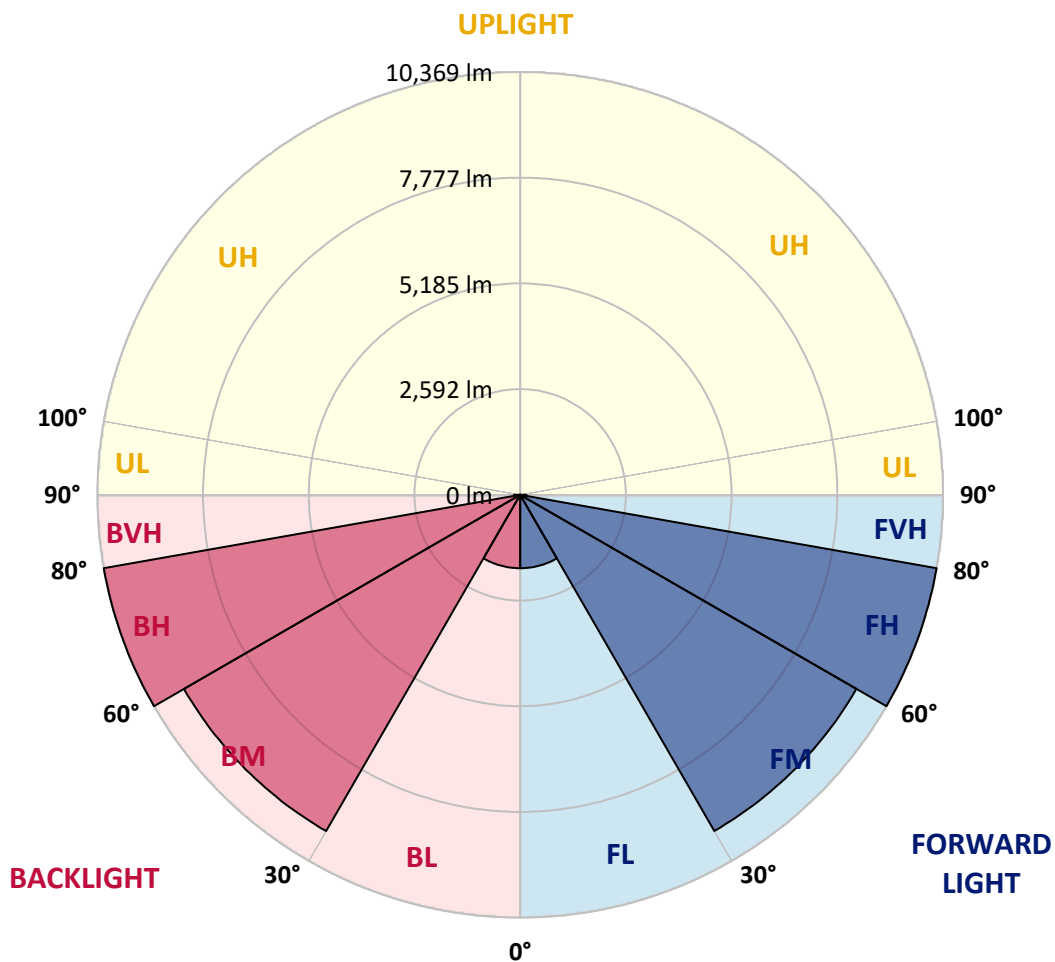
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1799.8	4.1			
FM	(30°-60°)	9519.8	21.8			
FH	(60°-80°)	10369.0	23.7			G4/12000
FVH	(80°-90°)	152.4	0.3			G2/225
BL	(0°-30°)	1799.8	4.1	B3/2500		
BM	(30°-60°)	9519.8	21.8	B5		
BH	(60°-80°)	10369.0	23.7	B5		G4/12000
BVH	(80°-90°)	152.4	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°	4353.1	4353.1	4353.1	4353.1	4353.1	4353.1	4353.1	4353.1	4353.1	4353.1	4353.1
2.5°	4337.0	4341.0	4341.0	4341.0	4339.0	4339.0	4335.0	4339.0	4337.0	4331.0	4333.0
5°	4300.9	4305.0	4305.0	4302.8	4308.8	4306.9	4300.9	4305.0	4302.8	4298.8	4300.9
7.5°	4248.6	4254.7	4254.7	4252.6	4258.7	4256.6	4252.6	4254.7	4254.7	4248.6	4248.6
10°	4190.4	4194.4	4194.4	4192.4	4202.4	4202.4	4200.4	4206.5	4208.4	4202.4	4198.4
12.5°	4136.1	4142.1	4142.1	4150.2	4160.3	4164.3	4174.2	4182.3	4190.4	4188.4	4180.4
15°	4104.0	4108.0	4116.1	4126.0	4142.1	4156.2	4172.3	4190.4	4206.5	4210.5	4198.4
17.5°	4083.9	4089.9	4102.0	4116.1	4138.0	4162.2	4186.4	4210.5	4232.6	4240.6	4226.4
20°	4077.9	4081.9	4094.0	4118.1	4148.1	4184.3	4218.5	4246.6	4276.7	4286.8	4276.7
22.5°	4089.9	4098.0	4112.0	4140.2	4180.4	4226.4	4266.7	4305.0	4343.0	4361.1	4347.1
25°	4144.2	4152.2	4170.3	4206.5	4250.6	4298.8	4345.0	4389.3	4423.4	4441.5	4431.4
27.5°	4244.6	4254.7	4276.7	4312.9	4361.1	4413.3	4463.6	4499.8	4527.8	4533.8	4521.8
30°	4395.3	4417.4	4443.5	4483.7	4539.9	4584.1	4634.3	4666.5	4700.6	4700.6	4690.6
32.5°	4630.3	4652.4	4680.5	4718.7	4762.8	4811.1	4855.3	4883.5	4919.6	4921.6	4897.4
35°	4981.7	4991.8	5016.0	5040.1	5080.2	5122.4	5160.7	5178.7	5208.8	5210.8	5188.7
37.5°	5445.9	5447.8	5463.9	5472.0	5508.2	5554.3	5590.5	5602.6	5630.6	5626.7	5604.6
40°	5986.2	5996.2	6002.2	6014.4	6052.5	6096.7	6134.9	6140.9	6171.1	6165.1	6136.9
42.5°	6610.9	6615.0	6649.2	6667.2	6703.4	6725.5	6773.6	6779.7	6815.9	6799.9	6767.6
45°	7312.0	7348.2	7380.4	7416.5	7454.6	7480.8	7519.0	7510.9	7535.1	7510.9	7492.9
47.5°	8049.2	8075.4	8147.7	8203.9	8266.2	8288.3	8342.6	8318.5	8342.6	8308.4	8302.4
50°	8860.8	8907.1	8969.3	9033.5	9099.8	9136.0	9206.4	9176.2	9208.4	9176.2	9158.1
52.5°	9660.3	9672.4	9809.0	9903.4	9995.8	10037.9	10080.1	10066.2	10068.1	10066.2	10048.0
55°	10419.6	10447.8	10584.4	10713.0	10873.7	10992.1	11064.4	11056.5	11038.4	11020.3	10990.2
57.5°	11275.4	11303.5	11460.2	11618.9	11801.7	11970.5	12117.1	12267.7	12326.0	12342.2	12275.9
60°	12432.5	12430.5	12639.4	12832.3	13093.4	13344.5	13665.9	13993.4	14369.0	14543.7	14312.8
62.5°	13609.7	13657.9	13959.2	14300.7	14839.0	15363.4	15955.9	16538.5	17133.1	17617.2	17103.0
65°	13469.1	13653.8	14101.8	14875.2	15869.6	17050.8	18328.4	19680.3	20901.7	21741.3	20799.1
67.5°	11673.1	11936.3	12392.3	13332.5	14575.8	16279.4	18424.7	21098.5	24206.1	25708.7	23846.5
70°	8461.0	8758.4	9236.4	10154.5	11385.9	13005.0	15335.2	18545.3	22659.3	24173.9	22123.0
72.5°	4210.5	4371.1	4666.5	5251.0	6183.1	7496.9	9610.1	12695.6	16335.6	17725.6	15851.5
75°	1430.3	1504.6	1554.9	1745.6	2041.0	2557.2	3607.8	5550.4	8467.1	10150.5	8346.6
77.5°	825.7	827.6	861.7	895.9	946.1	1002.4	1143.0	1500.5	2595.4	3686.2	2685.8
80°	534.4	532.3	560.5	586.6	620.7	648.9	656.8	695.0	801.5	950.1	849.7
82.5°	277.2	311.4	373.6	407.7	472.1	484.1	468.0	454.0	480.0	498.2	510.2
85°	152.6	132.5	198.9	257.1	285.2	289.3	289.3	273.1	283.2	277.2	301.3
87.5°	70.3	64.3	78.3	126.5	134.6	114.5	120.5	106.4	76.4	74.3	84.3
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°	4353.1	4353.1	4353.1	4353.1	4353.1	4353.1	4353.1	4353.1
2.5°	4333.0	4335.0	4335.0	4341.0	4343.0	4347.1	4351.0	4353.1
5°	4298.8	4305.0	4300.9	4306.9	4306.9	4311.0	4311.0	4312.9
7.5°	4248.6	4254.7	4254.7	4254.7	4252.6	4258.7	4258.7	4258.7
10°	4196.4	4200.4	4198.4	4194.4	4190.4	4196.4	4194.4	4192.4
12.5°	4180.4	4170.3	4162.2	4158.2	4150.2	4152.2	4146.2	4146.2
15°	4190.4	4172.3	4158.2	4152.2	4144.2	4140.2	4136.1	4138.0
17.5°	4216.6	4194.4	4176.3	4166.3	4156.2	4150.2	4142.1	4144.2
20°	4262.6	4236.5	4210.5	4190.4	4172.3	4162.2	4156.2	4154.2
22.5°	4331.0	4292.8	4254.7	4224.5	4200.4	4186.4	4180.4	4176.3
25°	4409.3	4367.1	4323.0	4288.8	4264.7	4246.6	4234.6	4234.6
27.5°	4507.7	4473.6	4433.4	4393.2	4371.1	4353.1	4345.0	4341.0
30°	4672.5	4640.3	4608.2	4570.0	4541.9	4523.9	4509.7	4497.7
32.5°	4883.5	4857.3	4831.2	4803.0	4777.0	4752.9	4730.7	4720.6
35°	5180.7	5160.7	5142.5	5110.4	5100.3	5086.3	5074.2	5064.1
37.5°	5590.5	5582.5	5582.5	5548.3	5540.3	5534.3	5522.2	5524.2
40°	6128.9	6136.9	6126.8	6114.8	6108.8	6092.8	6092.8	6106.7
42.5°	6765.7	6771.7	6793.7	6773.6	6795.8	6775.7	6763.7	6773.6
45°	7504.9	7527.0	7571.2	7551.1	7565.1	7531.0	7488.8	7490.9
47.5°	8334.6	8354.6	8372.6	8358.7	8360.6	8304.4	8248.2	8234.1
50°	9196.4	9204.3	9214.4	9194.2	9198.3	9136.0	9071.8	9073.8
52.5°	10048.0	10086.2	10126.3	10072.2	10060.0	9989.8	9899.4	9863.3
55°	11022.3	11076.6	11030.4	10936.0	10841.5	10747.1	10628.6	10608.5
57.5°	12223.6	12131.2	11986.5	11807.7	11677.2	11544.6	11424.0	11373.9
60°	13894.9	13547.4	13286.3	13021.1	12854.4	12691.7	12532.9	12508.9
62.5°	16257.2	15656.7	15136.3	14588.0	14140.0	13790.4	13511.2	13432.9
65°	19218.2	17798.0	16566.7	15417.6	14419.2	13665.9	13191.9	12982.9
67.5°	20491.8	17687.6	15576.3	13945.1	12639.4	11727.5	11215.1	10960.1
70°	18006.9	14668.3	12372.2	10739.1	9549.8	8577.6	8113.6	7840.3
72.5°	12388.3	9330.8	7378.4	6022.4	5072.3	4258.7	3937.2	3913.1
75°	5562.4	3684.1	2539.0	1956.7	1647.2	1432.3	1366.0	1315.8
77.5°	1556.8	1151.0	1026.5	960.2	895.9	821.6	793.4	799.4
80°	757.2	715.1	687.0	644.8	586.6	524.3	496.1	508.3
82.5°	502.1	496.1	514.3	484.1	399.8	339.5	285.2	261.1
85°	305.4	309.3	315.4	317.4	269.3	188.8	128.6	144.7
87.5°	120.5	138.6	150.7	156.7	146.6	90.3	72.3	74.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)