

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: P191707

Luminaire Tested: **GAN-AF-09-LED-U-5WQ-7050-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191707
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-09-LED-U-5WQ-7050-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 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: 61487 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 575
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

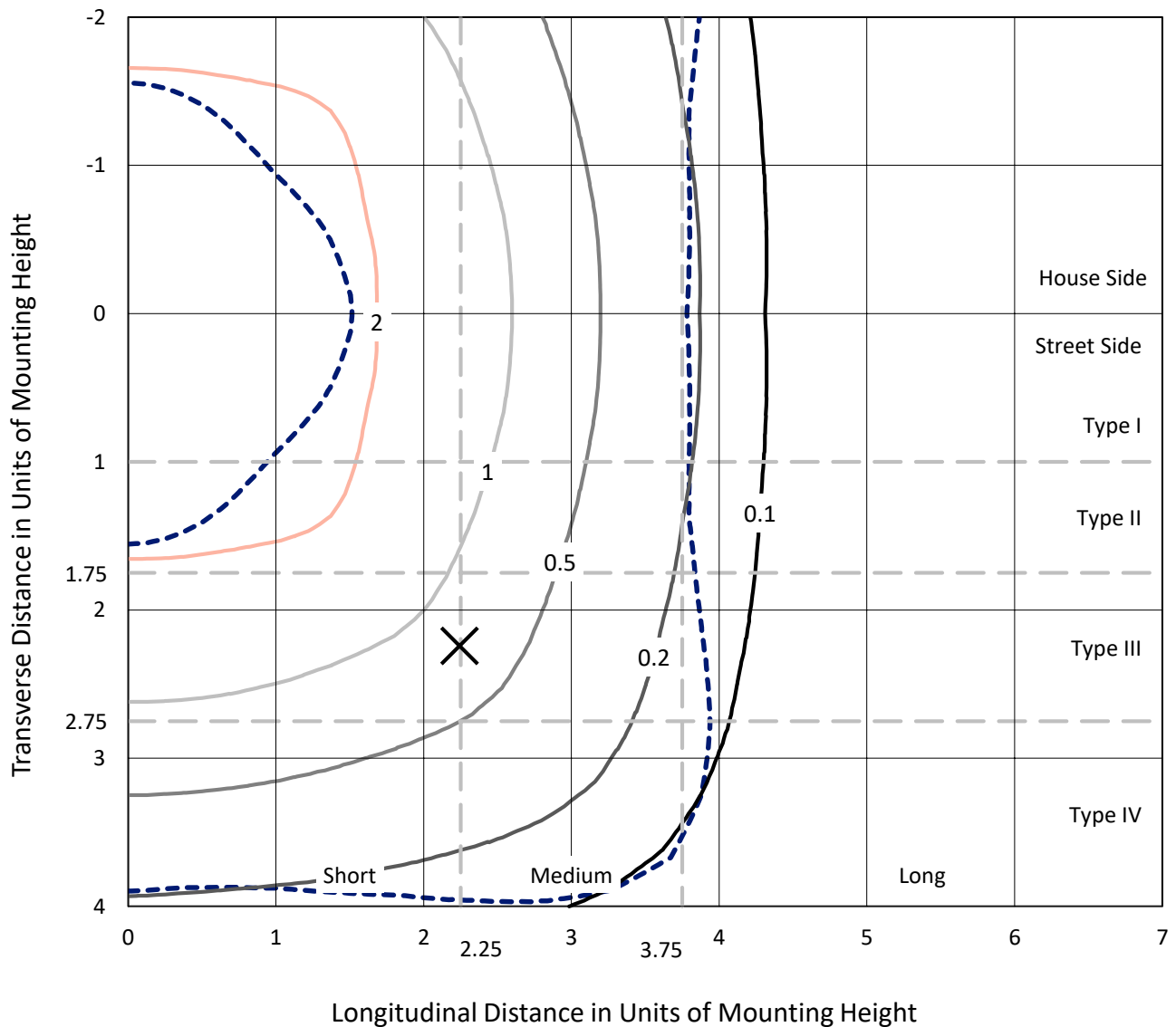


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

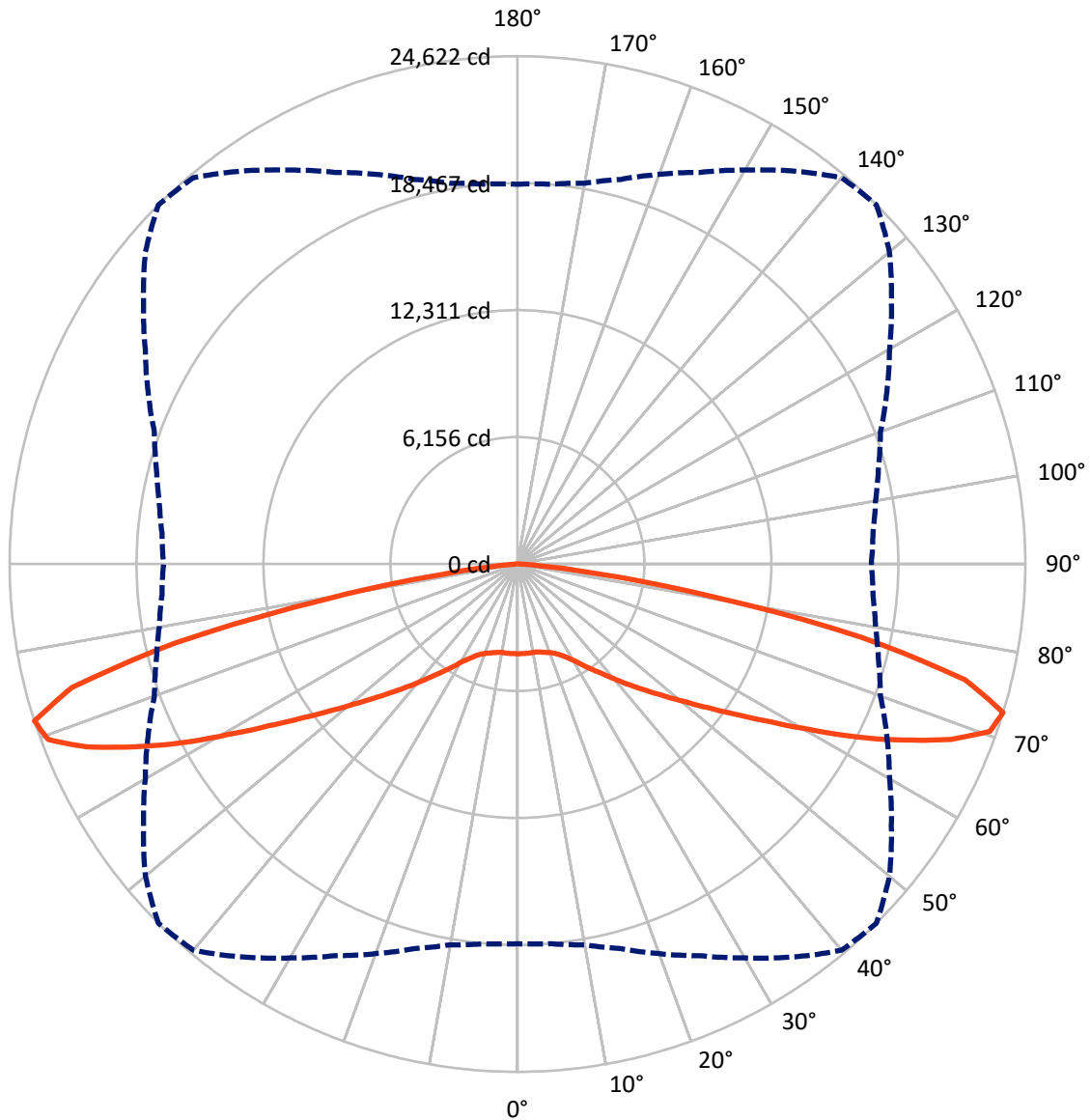


Based on 30 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - Semi-Cutoff

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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	30743.5	0.0	30743.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	30743.5	0.0	30743.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	61487.0	0.0	61487.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.8	0.7
10°-20°	1262.8	2.1
20°-30°	2307.6	3.8
30°-40°	3978.7	6.5
40°-50°	6801.5	11.1
50°-60°	11024.4	17.9
60°-70°	18289.1	29.7
70°-80°	16108.4	26.2
80°-90°	1298.8	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°	61487.0	100.0
0°-180°	61487.0	100.0



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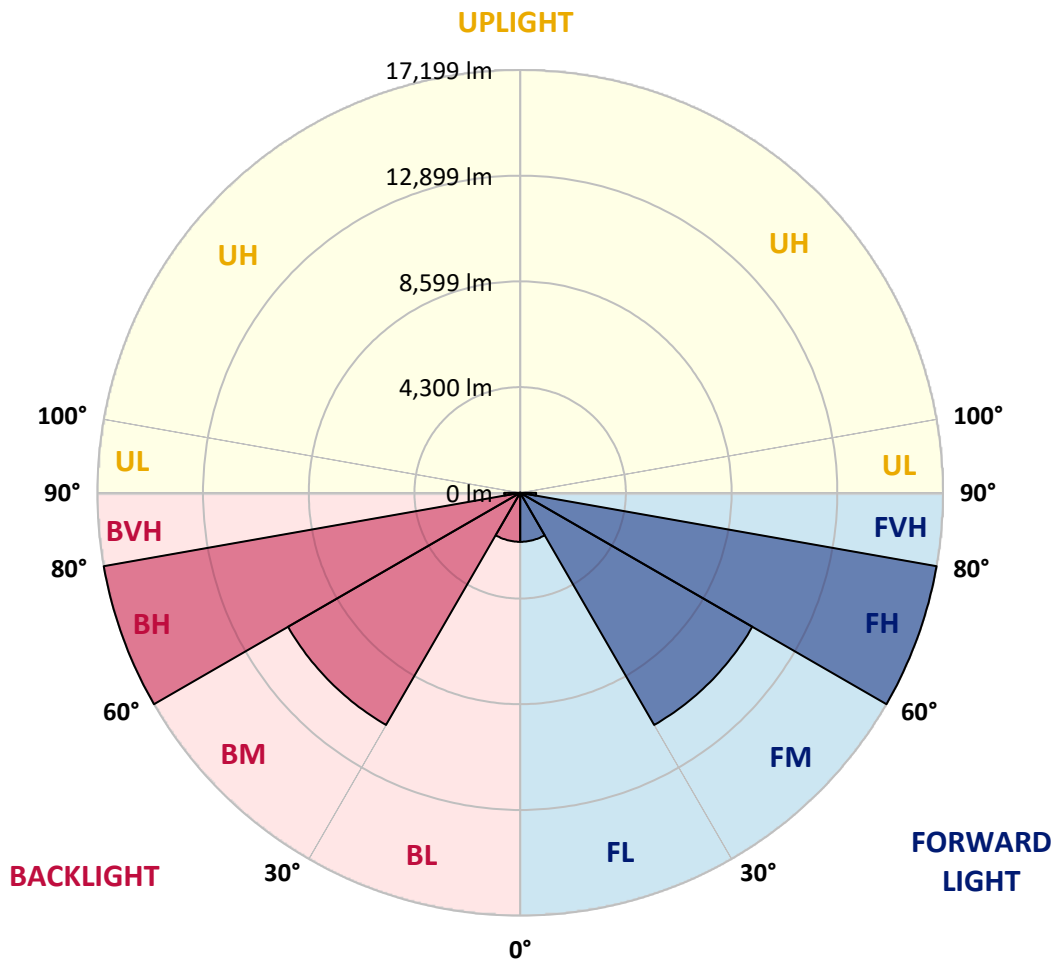
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1993.1	3.2			
FM	(30°-60°)	10902.3	17.7			
FH	(60°-80°)	17198.7	28.0			G5
FVH	(80°-90°)	649.4	1.1			G4/750
BL	(0°-30°)	1993.1	3.2	B3/2500		
BM	(30°-60°)	10902.3	17.7	B5		
BH	(60°-80°)	17198.7	28.0	B5		G5
BVH	(80°-90°)	649.4	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°	4354.2	4354.2	4354.2	4354.2	4354.2	4354.2	4354.2	4354.2	4354.2	4354.2	4354.2
2.5°	4354.2	4357.1	4359.9	4357.1	4357.1	4354.2	4351.4	4354.2	4351.4	4345.8	4348.6
5°	4368.3	4374.0	4374.0	4368.3	4371.2	4368.3	4362.7	4365.5	4359.9	4351.4	4351.4
7.5°	4385.3	4388.1	4388.1	4382.4	4385.3	4379.6	4374.0	4371.2	4365.5	4354.2	4345.8
10°	4410.6	4413.5	4410.6	4405.0	4405.0	4396.5	4382.4	4376.8	4365.5	4348.6	4340.1
12.5°	4438.8	4441.7	4438.8	4433.2	4430.4	4416.3	4405.0	4396.5	4388.1	4374.0	4359.9
15°	4478.3	4484.0	4478.3	4467.0	4458.6	4447.3	4441.7	4444.5	4447.3	4436.0	4421.9
17.5°	4551.6	4554.5	4546.0	4520.6	4509.3	4498.1	4498.1	4503.7	4512.2	4506.5	4492.4
20°	4687.0	4678.5	4658.8	4627.8	4613.7	4593.9	4591.1	4593.9	4593.9	4591.1	4579.8
22.5°	4856.2	4850.6	4825.2	4785.7	4766.0	4754.7	4737.8	4723.7	4720.8	4712.4	4701.1
25°	5059.3	5056.4	5025.4	4991.6	4977.5	4963.4	4949.3	4929.5	4912.6	4892.9	4881.6
27.5°	5318.7	5307.4	5262.3	5245.4	5225.6	5217.2	5197.4	5174.9	5160.8	5135.4	5121.3
30°	5603.5	5603.5	5566.9	5561.2	5561.2	5541.5	5518.9	5479.5	5454.1	5428.7	5420.2
32.5°	5888.4	5891.2	5854.5	5865.8	5874.3	5888.4	5894.0	5879.9	5863.0	5860.2	5843.2
35°	6300.1	6288.8	6252.2	6260.6	6257.8	6255.0	6255.0	6286.0	6291.6	6297.3	6263.4
37.5°	6810.5	6810.5	6773.9	6773.9	6757.0	6740.0	6717.5	6737.2	6768.2	6776.7	6754.1
40°	7394.3	7414.0	7368.9	7366.1	7371.7	7318.2	7292.8	7323.8	7343.5	7377.4	7352.0
42.5°	8082.4	8068.3	8023.2	8017.5	7986.5	7969.6	7947.0	7972.4	8003.4	8026.0	8034.5
45°	8742.3	8731.0	8680.3	8680.3	8649.2	8635.1	8646.4	8688.7	8702.8	8733.9	8764.9
47.5°	9393.8	9379.7	9345.8	9359.9	9362.7	9388.1	9424.8	9464.3	9503.7	9546.0	9560.1
50°	10059.3	10062.1	10025.5	10059.3	10101.6	10172.1	10270.8	10335.7	10417.5	10471.0	10488.0
52.5°	10665.6	10676.9	10716.4	10795.3	10879.9	11018.1	11187.3	11345.3	11480.6	11570.9	11565.2
55°	11393.2	11410.1	11506.0	11641.4	11779.6	11988.2	12239.2	12518.4	12744.0	12873.8	12792.0
57.5°	12323.8	12360.5	12467.7	12651.0	12856.8	13127.6	13471.6	13891.8	14241.5	14416.4	14283.8
60°	13601.3	13623.9	13753.6	13956.7	14204.8	14540.4	15000.1	15564.1	16057.7	16288.9	16136.6
62.5°	15284.9	15327.2	15431.6	15637.5	15891.3	16272.0	16833.2	17538.2	18153.0	18474.5	18130.4
65°	17295.7	17431.0	17518.5	17727.2	17964.0	18367.3	18953.9	19709.7	20369.6	20581.1	20183.5
67.5°	19286.7	19405.1	19557.4	19797.1	20036.8	20490.8	21035.1	21768.4	22493.1	22684.9	22067.3
70°	20158.1	20225.8	20462.6	20789.8	21249.5	21785.3	22414.2	23237.6	24134.4	24292.3	23508.4
72.5°	18412.4	18480.1	18745.2	19300.8	20101.7	20953.3	22050.4	23260.2	24444.6	24622.3	23542.2
75°	13925.7	13815.7	14207.7	14943.7	16023.8	17211.1	18745.2	20479.6	22191.4	22414.2	21125.4
77.5°	7196.9	7182.8	7478.9	8392.6	9681.4	11032.2	12721.5	14681.4	16356.6	17033.4	15984.3
80°	2027.7	2050.2	2191.2	2645.3	3398.2	4374.0	5693.8	7529.7	8900.2	9599.6	9013.0
82.5°	795.3	857.3	910.9	995.5	1094.2	1238.0	1652.6	2459.1	3299.5	3942.5	3229.0
85°	284.8	304.6	431.5	510.4	518.9	547.1	623.2	727.6	877.1	1046.3	860.1
87.5°	107.2	118.4	138.2	228.4	225.6	205.9	251.0	262.3	197.4	180.5	222.8
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°	4354.2	4354.2	4354.2	4354.2	4354.2	4354.2	4354.2	4354.2
2.5°	4343.0	4345.8	4345.8	4348.6	4351.4	4351.4	4357.1	4357.1
5°	4345.8	4345.8	4340.1	4343.0	4340.1	4340.1	4343.0	4343.0
7.5°	4340.1	4337.3	4331.7	4328.9	4323.2	4323.2	4323.2	4323.2
10°	4331.7	4328.9	4323.2	4320.4	4317.6	4317.6	4317.6	4317.6
12.5°	4354.2	4345.8	4340.1	4337.3	4337.3	4337.3	4337.3	4337.3
15°	4413.5	4393.7	4379.6	4379.6	4382.4	4388.1	4388.1	4393.7
17.5°	4486.8	4464.2	4450.1	4438.8	4444.5	4452.9	4458.6	4464.2
20°	4574.2	4562.9	4543.2	4531.9	4531.9	4543.2	4548.8	4551.6
22.5°	4695.5	4687.0	4678.5	4664.4	4664.4	4670.1	4681.4	4681.4
25°	4876.0	4870.3	4864.7	4853.4	4850.6	4850.6	4856.2	4861.9
27.5°	5101.6	5104.4	5098.7	5095.9	5087.5	5084.6	5093.1	5090.3
30°	5403.3	5417.4	5431.5	5420.2	5406.1	5397.7	5389.2	5377.9
32.5°	5812.2	5795.3	5784.0	5764.3	5738.9	5716.3	5699.4	5679.7
35°	6198.6	6170.4	6159.1	6176.0	6173.2	6159.1	6139.4	6122.4
37.5°	6672.4	6666.7	6672.4	6703.4	6697.7	6711.8	6672.4	6669.5
40°	7270.2	7275.9	7315.3	7352.0	7371.7	7391.5	7368.9	7346.4
42.5°	7964.0	7961.1	7975.2	8026.0	8059.8	8082.4	8034.5	8028.8
45°	8697.2	8677.4	8688.7	8731.0	8764.9	8790.3	8736.7	8736.7
47.5°	9503.7	9469.9	9433.2	9481.2	9500.9	9517.8	9475.5	9461.4
50°	10403.3	10332.8	10253.9	10273.6	10273.6	10268.0	10214.4	10211.6
52.5°	11435.5	11305.8	11162.0	11108.4	11077.4	11043.5	10950.4	10905.3
55°	12622.8	12428.2	12202.6	12064.4	11991.1	11898.0	11742.9	11700.6
57.5°	14010.3	13705.7	13316.5	13147.3	12983.7	12831.5	12659.4	12611.5
60°	15654.4	15206.0	14689.9	14376.9	14199.2	14052.6	13874.9	13866.4
62.5°	17487.4	16779.6	16195.8	15913.8	15784.1	15654.4	15485.2	15507.7
65°	19351.5	18612.7	18065.6	17837.1	17715.9	17608.7	17439.5	17464.9
67.5°	21190.2	20510.6	19909.9	19675.8	19540.5	19405.1	19252.8	19278.2
70°	22510.0	21666.8	20990.0	20471.1	20146.8	19780.2	19543.3	19484.1
72.5°	22132.1	20832.1	19757.6	18728.3	18124.8	17634.1	17301.3	17157.5
75°	19154.1	17377.5	15995.6	14732.2	14021.5	13443.4	13023.2	12761.0
77.5°	14224.6	12228.0	10595.1	9139.9	7989.3	7216.6	6672.4	6319.8
80°	7786.3	5922.2	4328.9	3042.9	2236.3	1858.4	1641.3	1537.0
82.5°	2425.3	1565.2	1153.4	995.5	925.0	885.5	820.6	716.3
85°	772.7	676.8	628.9	600.7	572.5	499.2	344.1	313.0
87.5°	298.9	307.4	304.6	287.7	293.3	211.5	169.2	149.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)