

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: P190817

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190817
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-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57185 lumens
Efficiency: N/A
Efficacy: 114.1 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 - G5

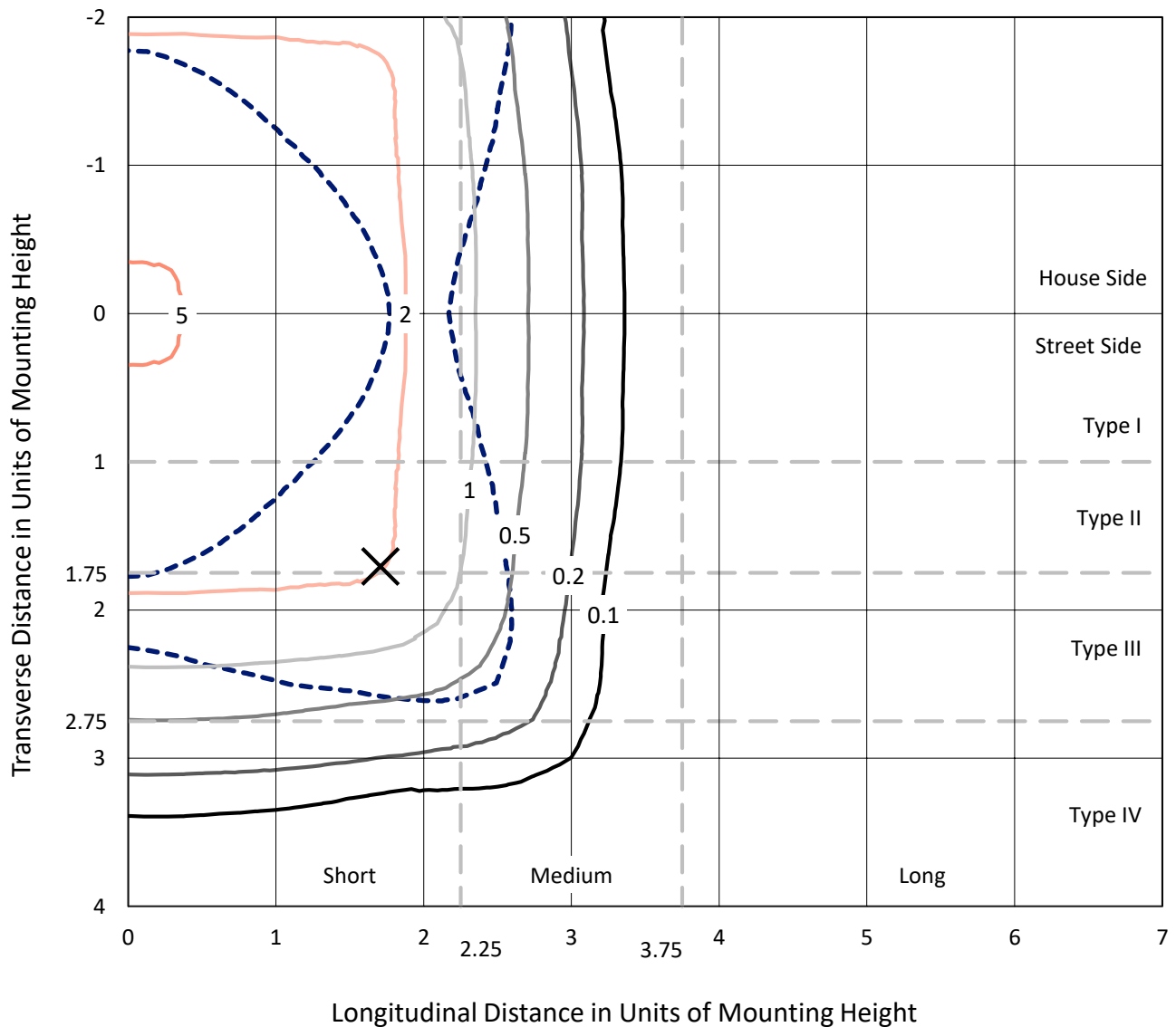
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

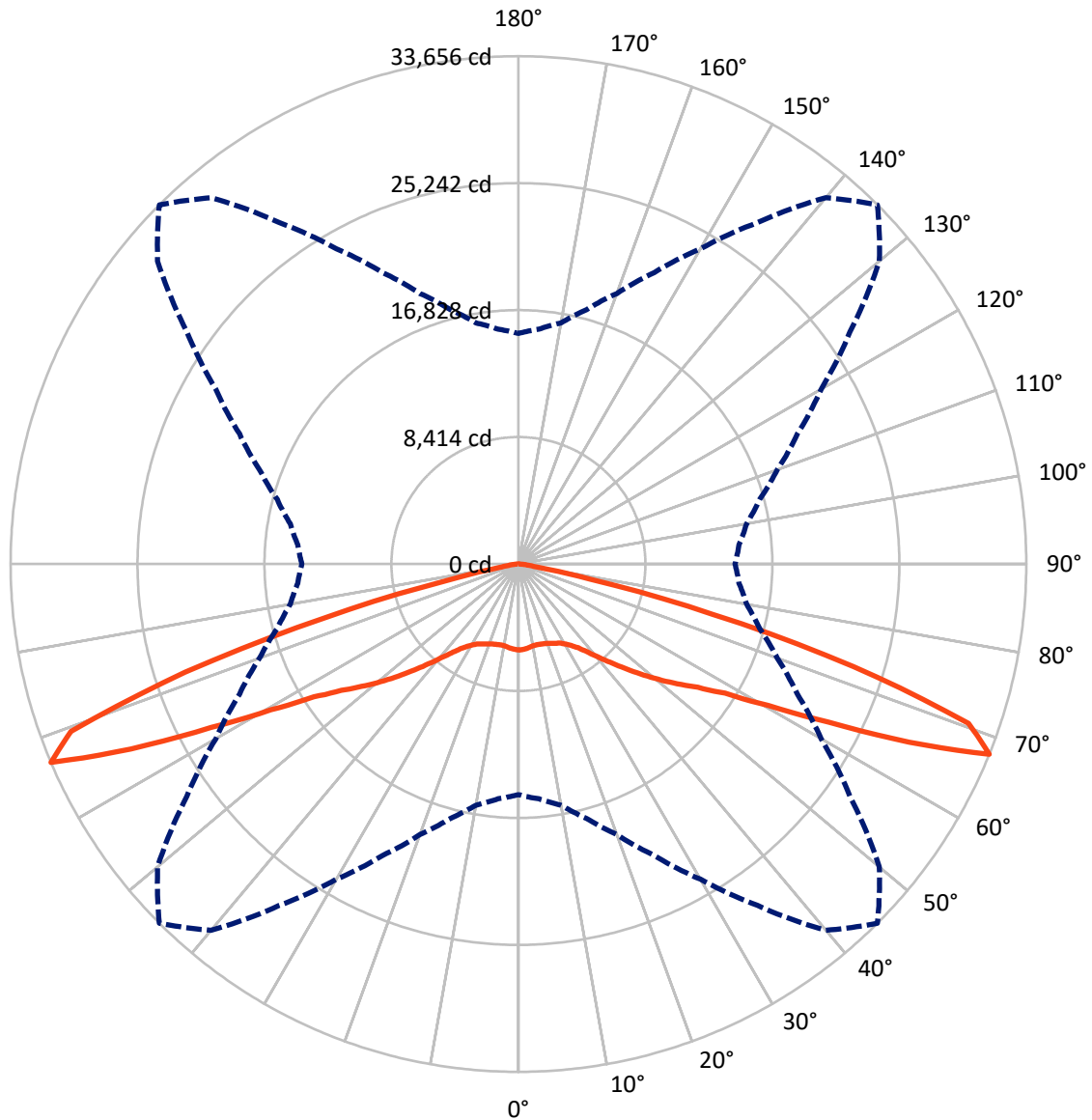
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 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	28592.5	0.0	28592.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	28592.5	0.0	28592.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	57185.0	0.0	57185.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	533.4	0.9
10°-20°	1547.7	2.7
20°-30°	2631.1	4.6
30°-40°	4301.1	7.5
40°-50°	7678.3	13.4
50°-60°	12945.8	22.6
60°-70°	20089.9	35.1
70°-80°	7058.7	12.3
80°-90°	398.9	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°	57185.0	100.0
0°-180°	57185.0	100.0



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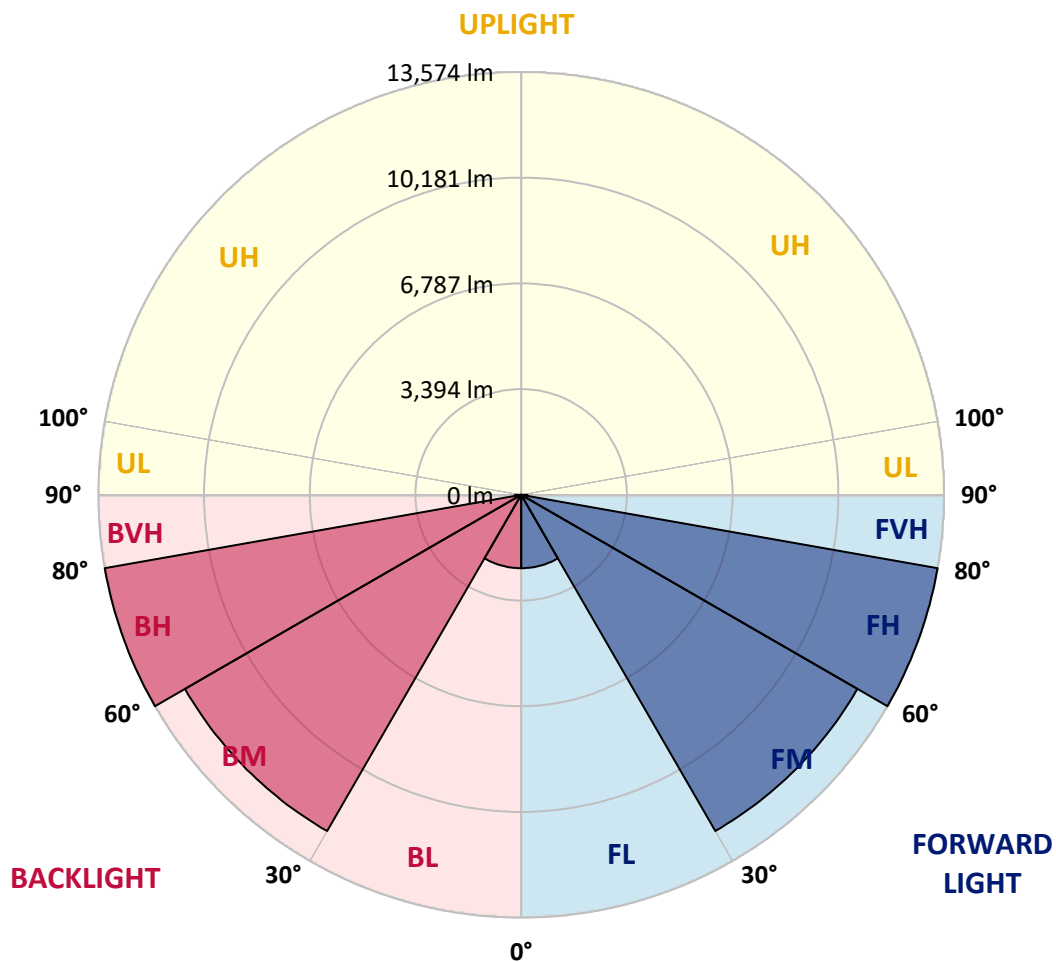
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2356.1	4.1			
FM	(30°-60°)	12462.6	21.8			
FH	(60°-80°)	13574.3	23.7			G5
FVH	(80°-90°)	199.5	0.3			G2/225
BL	(0°-30°)	2356.1	4.1	B3/2500		
BM	(30°-60°)	12462.6	21.8	B5		
BH	(60°-80°)	13574.3	23.7	B5		G5
BVH	(80°-90°)	199.5	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-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5698.8	5698.8	5698.8	5698.8	5698.8	5698.8	5698.8	5698.8	5698.8	5698.8	5698.8
2.5°	5677.7	5682.9	5682.9	5682.9	5680.3	5680.3	5675.0	5680.3	5677.7	5669.8	5672.5
5°	5630.3	5635.6	5635.6	5633.0	5640.9	5638.2	5630.3	5635.6	5633.0	5627.8	5630.3
7.5°	5562.0	5569.9	5569.9	5567.2	5575.1	5572.5	5567.2	5569.9	5569.9	5562.0	5562.0
10°	5485.7	5491.0	5491.0	5488.3	5501.5	5501.5	5498.9	5506.7	5509.4	5501.5	5496.2
12.5°	5414.7	5422.6	5422.6	5433.1	5446.3	5451.5	5464.7	5475.2	5485.7	5483.1	5472.6
15°	5372.6	5377.9	5388.4	5401.6	5422.6	5441.0	5462.0	5485.7	5506.7	5512.0	5496.2
17.5°	5346.4	5354.2	5370.0	5388.4	5417.3	5448.8	5480.5	5512.0	5540.9	5551.5	5533.0
20°	5338.5	5343.7	5359.4	5391.1	5430.5	5477.8	5522.5	5559.3	5598.8	5611.9	5598.8
22.5°	5354.2	5364.8	5383.2	5420.0	5472.6	5533.0	5585.6	5635.6	5685.6	5709.3	5690.9
25°	5425.2	5435.8	5459.4	5506.7	5564.6	5627.8	5688.2	5746.0	5790.7	5814.5	5801.3
27.5°	5556.7	5569.9	5598.8	5646.2	5709.3	5777.6	5843.4	5890.7	5927.5	5935.4	5919.6
30°	5754.0	5782.8	5817.1	5869.7	5943.3	6001.1	6066.9	6109.0	6153.7	6153.7	6140.6
32.5°	6061.6	6090.5	6127.4	6177.4	6235.2	6298.3	6356.2	6393.0	6440.3	6443.0	6411.4
35°	6521.8	6535.0	6566.5	6598.1	6650.7	6706.0	6755.9	6779.6	6819.0	6821.6	6792.7
37.5°	7129.4	7131.9	7153.0	7163.5	7210.9	7271.3	7318.7	7334.5	7371.3	7366.0	7337.1
40°	7836.7	7849.9	7857.8	7873.6	7923.5	7981.4	8031.3	8039.3	8078.7	8070.8	8033.9
42.5°	8654.6	8659.9	8704.6	8728.2	8775.6	8804.5	8867.7	8875.5	8922.8	8901.8	8859.7
45°	9572.4	9619.7	9661.8	9709.1	9759.1	9793.3	9843.2	9832.7	9864.3	9832.7	9809.1
47.5°	10537.5	10571.7	10666.4	10740.0	10821.5	10850.4	10921.4	10889.9	10921.4	10876.7	10868.9
50°	11600.0	11660.4	11741.9	11826.1	11912.9	11960.2	12052.3	12012.8	12054.9	12012.8	11989.2
52.5°	12646.6	12662.4	12841.2	12964.8	13085.8	13141.0	13196.3	13177.9	13180.4	13177.9	13154.1
55°	13640.6	13677.5	13856.3	14024.6	14235.0	14390.2	14484.8	14474.2	14450.6	14427.0	14387.5
57.5°	14761.0	14797.8	15002.9	15210.7	15449.9	15670.9	15862.8	16060.0	16136.3	16157.3	16070.6
60°	16275.7	16273.1	16546.5	16799.0	17140.9	17469.6	17890.4	18319.0	18810.8	19039.6	18737.2
62.5°	17816.7	17879.9	18274.3	18721.3	19426.1	20112.5	20888.3	21651.0	22429.3	23063.1	22389.9
65°	17632.6	17874.6	18461.0	19473.5	20775.2	22321.5	23994.1	25763.9	27362.8	28462.1	27228.7
67.5°	15281.7	15626.1	16223.1	17453.8	19081.6	21311.7	24120.4	27620.6	31688.8	33655.9	31218.1
70°	11076.6	11465.8	12091.7	13293.6	14905.6	17025.2	20075.7	24278.1	29663.8	31646.7	28961.7
72.5°	5512.0	5722.4	6109.0	6874.2	8094.4	9814.3	12580.9	16620.2	21385.3	23205.1	20751.6
75°	1872.4	1969.7	2035.5	2285.3	2671.8	3347.7	4723.1	7266.1	11084.5	13288.2	10926.8
77.5°	1080.8	1083.5	1128.2	1172.9	1238.6	1312.2	1496.4	1964.5	3397.6	4825.7	3516.0
80°	699.5	696.9	733.7	767.9	812.6	849.5	859.9	909.9	1049.2	1243.9	1112.4
82.5°	362.9	407.6	489.2	533.9	618.0	633.8	612.7	594.3	628.5	652.2	668.0
85°	199.9	173.6	260.3	336.7	373.5	378.7	378.7	357.6	370.8	362.9	394.4
87.5°	92.1	84.2	102.6	165.7	176.2	149.9	157.7	139.4	99.9	97.3	110.5
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°	5698.8	5698.8	5698.8	5698.8	5698.8	5698.8	5698.8	5698.8
2.5°	5672.5	5675.0	5675.0	5682.9	5685.6	5690.9	5696.1	5698.8
5°	5627.8	5635.6	5630.3	5638.2	5638.2	5643.5	5643.5	5646.2
7.5°	5562.0	5569.9	5569.9	5569.9	5567.2	5575.1	5575.1	5575.1
10°	5493.6	5498.9	5496.2	5491.0	5485.7	5493.6	5491.0	5488.3
12.5°	5472.6	5459.4	5448.8	5443.6	5433.1	5435.8	5427.9	5427.9
15°	5485.7	5462.0	5443.6	5435.8	5425.2	5420.0	5414.7	5417.3
17.5°	5519.9	5491.0	5467.3	5454.2	5441.0	5433.1	5422.6	5425.2
20°	5580.4	5546.2	5512.0	5485.7	5462.0	5448.8	5441.0	5438.4
22.5°	5669.8	5619.8	5569.9	5530.4	5498.9	5480.5	5472.6	5467.3
25°	5772.4	5717.2	5659.3	5614.6	5583.1	5559.3	5543.6	5543.6
27.5°	5901.2	5856.5	5803.9	5751.3	5722.4	5698.8	5688.2	5682.9
30°	6116.8	6074.8	6032.8	5982.7	5945.9	5922.3	5903.9	5888.1
32.5°	6393.0	6358.8	6324.6	6287.8	6253.6	6222.1	6193.1	6180.0
35°	6782.2	6755.9	6732.2	6690.2	6677.0	6658.6	6642.8	6629.6
37.5°	7318.7	7308.2	7308.2	7263.5	7252.9	7245.0	7229.3	7231.9
40°	8023.4	8033.9	8020.9	8005.0	7997.1	7976.2	7976.2	7994.6
42.5°	8857.1	8865.0	8893.9	8867.7	8896.5	8870.2	8854.5	8867.7
45°	9824.8	9853.8	9911.7	9885.3	9903.7	9859.0	9803.9	9806.4
47.5°	10910.9	10937.3	10960.9	10942.5	10945.2	10871.5	10797.9	10779.4
50°	12039.1	12049.6	12062.7	12036.4	12041.8	11960.2	11876.0	11878.7
52.5°	13154.1	13204.1	13256.7	13185.7	13169.9	13077.9	12959.6	12912.2
55°	14429.5	14500.6	14440.1	14316.5	14192.9	14069.3	13914.2	13887.9
57.5°	16002.2	15881.2	15691.9	15457.8	15286.9	15113.3	14955.5	14889.8
60°	18190.2	17735.2	17393.3	17046.2	16828.0	16615.0	16407.2	16375.6
62.5°	21282.8	20496.5	19815.4	19097.5	18511.0	18053.4	17687.8	17585.3
65°	25159.1	23299.9	21687.8	20183.5	18876.5	17890.4	17269.8	16996.2
67.5°	26826.4	23155.2	20391.3	18255.9	16546.5	15352.7	14682.0	14348.1
70°	23573.3	19202.6	16196.8	14058.8	12502.0	11229.1	10621.7	10264.0
72.5°	16217.9	12215.4	9659.2	7884.1	6640.2	5575.1	5154.3	5122.8
75°	7281.9	4823.0	3324.1	2561.4	2156.4	1875.1	1788.2	1722.5
77.5°	2038.1	1506.9	1343.9	1257.0	1172.9	1075.5	1038.8	1046.7
80°	991.4	936.2	899.4	844.1	767.9	686.4	649.6	665.3
82.5°	657.5	649.6	673.2	633.8	523.3	444.5	373.5	341.9
85°	399.8	405.0	412.9	415.5	352.4	247.2	168.3	189.3
87.5°	157.7	181.5	197.2	205.1	192.0	118.4	94.6	97.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)