

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: McGRAW-EDISON

Report Number: P191708

Luminaire Tested: **GLEON-AF-10-LED-E1-5WQ-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191708
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: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-5WQ-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 68077 lumens
Efficiency: N/A
Efficacy: 106.4 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): 640
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: 25 FT

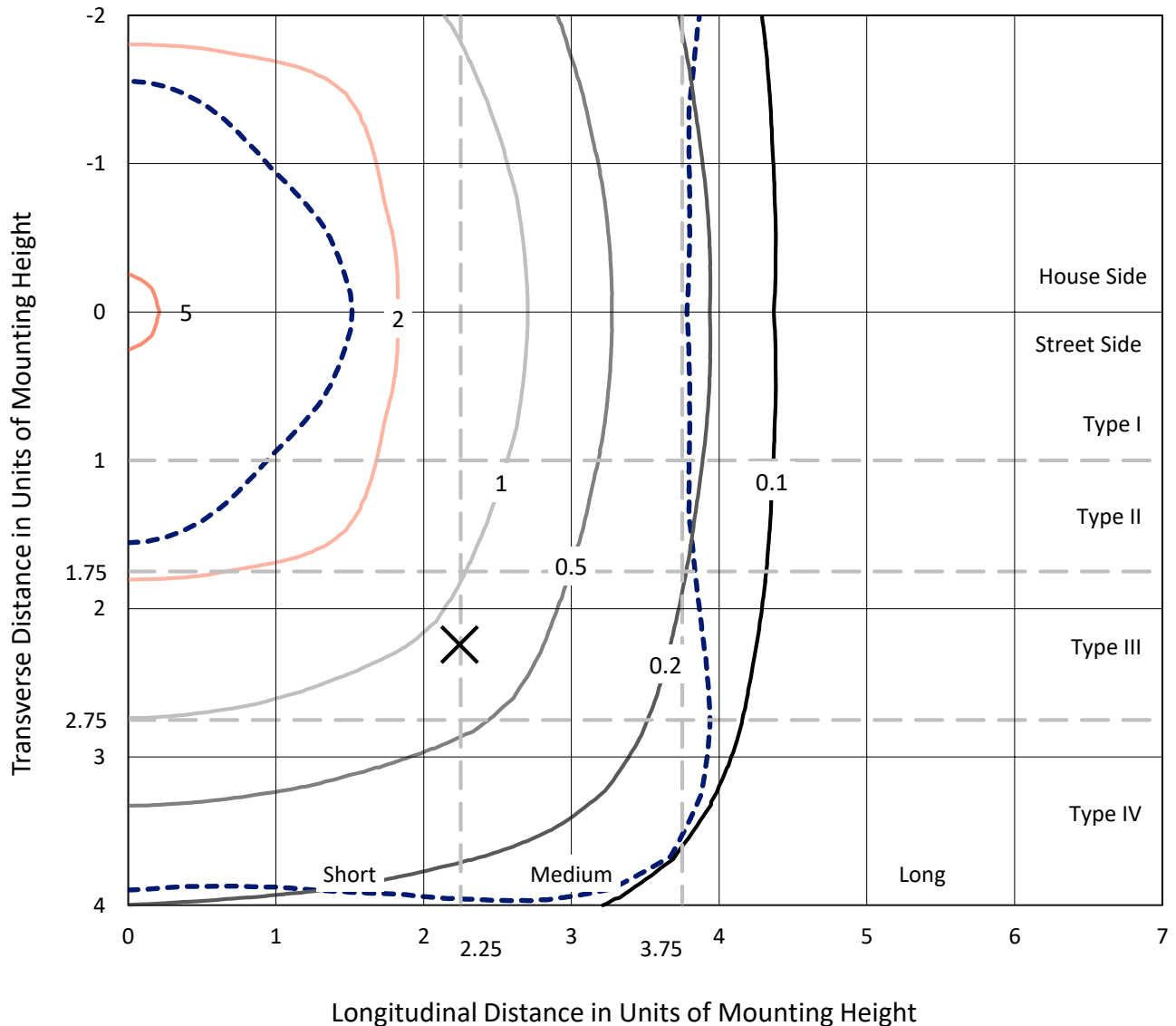


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Iso-Footcandle Lines of Horizontal Illumination

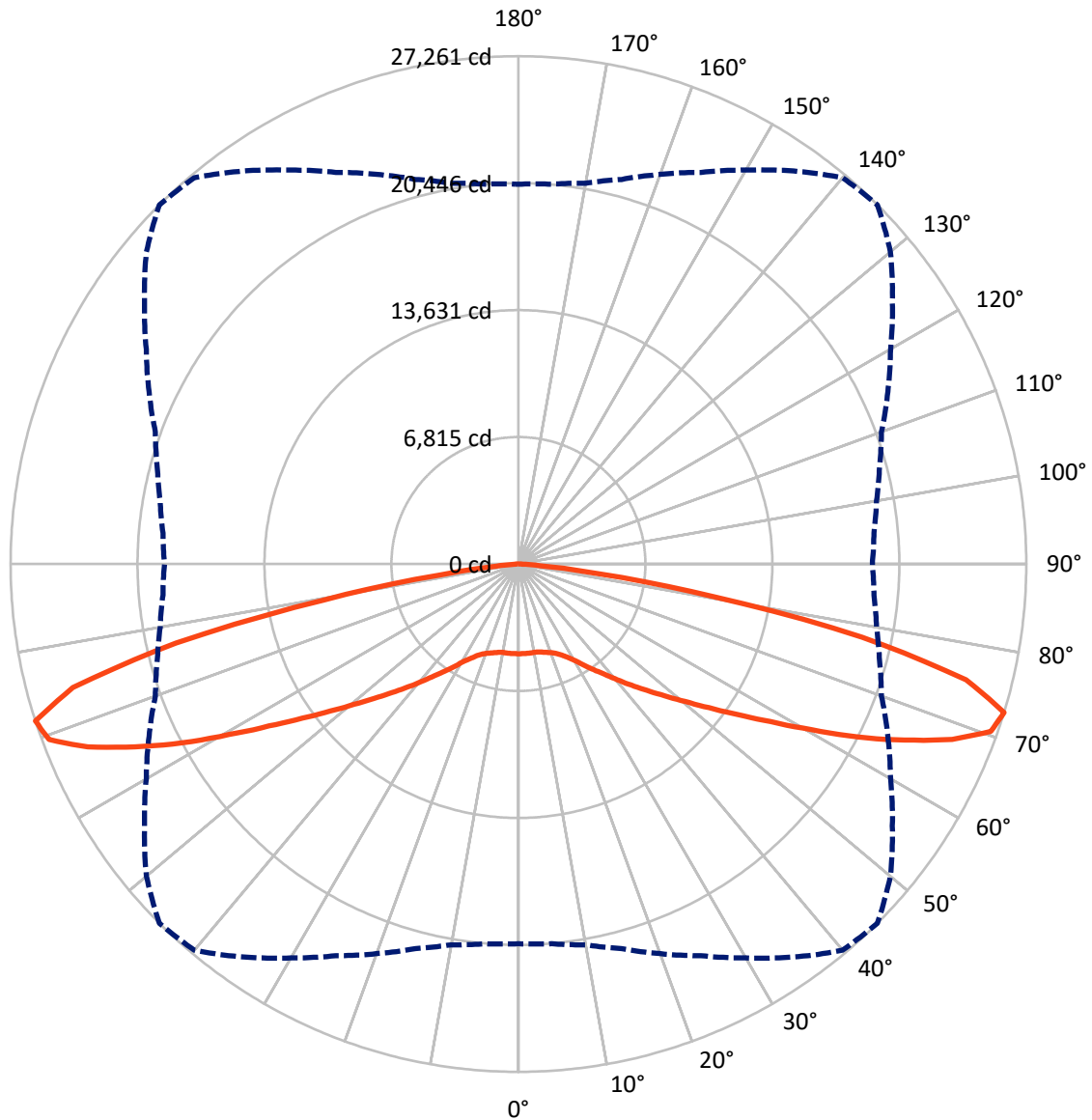
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 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	34038.5	0.0	34038.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	34038.5	0.0	34038.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	68077.0	0.0	68077.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.3	0.7
10°-20°	1398.1	2.1
20°-30°	2554.9	3.8
30°-40°	4405.1	6.5
40°-50°	7530.5	11.1
50°-60°	12206.0	17.9
60°-70°	20249.3	29.7
70°-80°	17834.8	26.2
80°-90°	1438.0	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°	68077.0	100.0
0°-180°	68077.0	100.0



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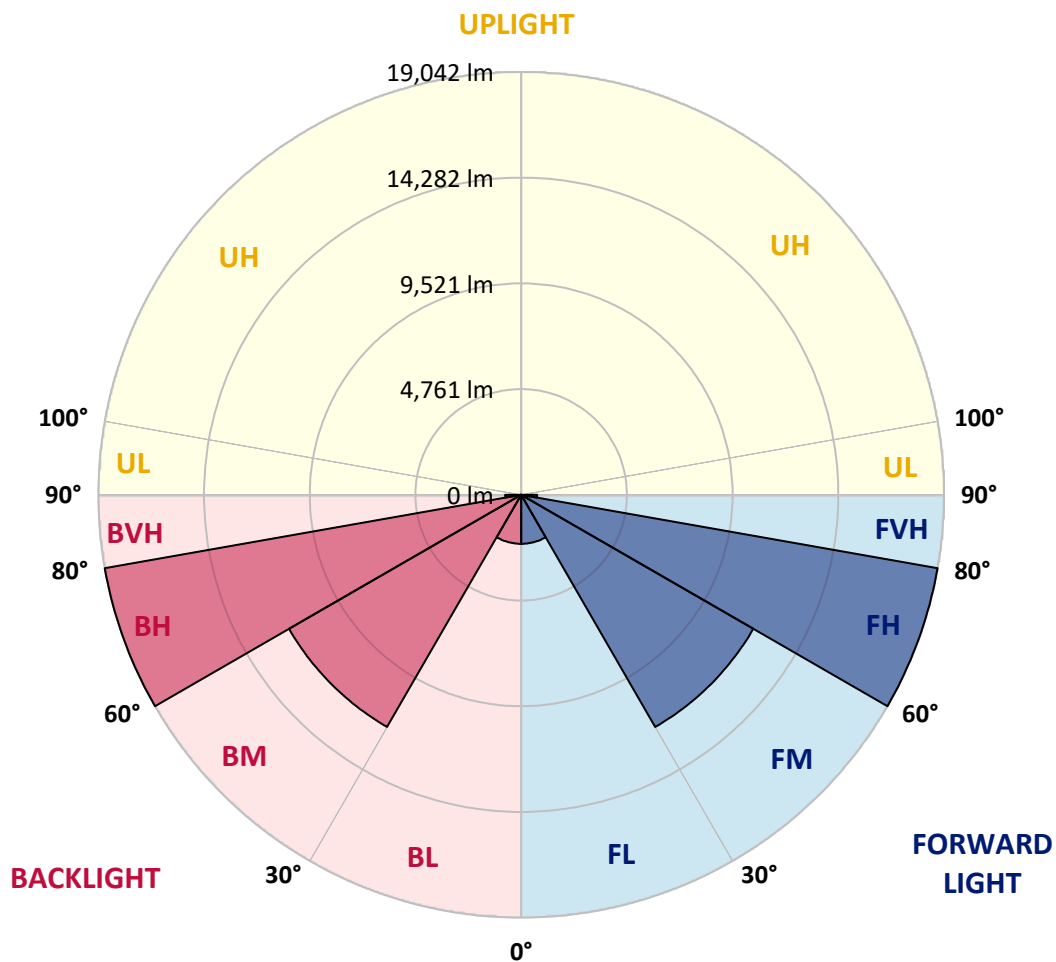
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2206.7	3.2			
FM	(30°-60°)	12070.8	17.7			
FH	(60°-80°)	19042.0	28.0			G5
FVH	(80°-90°)	719.0	1.1			G4/750
BL	(0°-30°)	2206.7	3.2	B3/2500		
BM	(30°-60°)	12070.8	17.7	B5		
BH	(60°-80°)	19042.0	28.0	B5		G5
BVH	(80°-90°)	719.0	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°	4820.9	4820.9	4820.9	4820.9	4820.9	4820.9	4820.9	4820.9	4820.9	4820.9	4820.9
2.5°	4820.9	4824.0	4827.2	4824.0	4824.0	4820.9	4817.8	4820.9	4817.8	4811.5	4814.7
5°	4836.5	4842.8	4842.8	4836.5	4839.6	4836.5	4830.3	4833.4	4827.2	4817.8	4817.8
7.5°	4855.3	4858.4	4858.4	4852.1	4855.3	4849.0	4842.8	4839.6	4833.4	4820.9	4811.5
10°	4883.4	4886.5	4883.4	4877.1	4877.1	4867.7	4852.1	4845.9	4833.4	4814.7	4805.3
12.5°	4914.6	4917.7	4914.6	4908.3	4905.2	4889.6	4877.1	4867.7	4858.4	4842.8	4827.2
15°	4958.3	4964.5	4958.3	4945.8	4936.4	4923.9	4917.7	4920.8	4923.9	4911.5	4895.8
17.5°	5039.5	5042.6	5033.2	5005.1	4992.6	4980.1	4980.1	4986.4	4995.8	4989.5	4973.9
20°	5189.3	5180.0	5158.1	5123.8	5108.2	5086.3	5083.2	5086.3	5086.3	5083.2	5070.7
22.5°	5376.7	5370.4	5342.3	5298.6	5276.8	5264.3	5245.5	5229.9	5226.8	5217.4	5205.0
25°	5601.5	5598.4	5564.0	5526.6	5510.9	5495.3	5479.7	5457.9	5439.1	5417.3	5404.8
27.5°	5888.8	5876.3	5826.3	5807.6	5785.7	5776.3	5754.5	5729.5	5713.9	5685.8	5670.2
30°	6204.1	6204.1	6163.5	6157.3	6157.3	6135.4	6110.4	6066.7	6038.6	6010.5	6001.2
32.5°	6519.5	6522.6	6482.0	6494.5	6503.9	6519.5	6525.7	6510.1	6491.4	6488.2	6469.5
35°	6975.3	6962.8	6922.3	6931.6	6928.5	6925.4	6925.4	6959.7	6966.0	6972.2	6934.7
37.5°	7540.5	7540.5	7499.9	7499.9	7481.2	7462.4	7437.4	7459.3	7493.6	7503.0	7478.0
40°	8186.8	8208.7	8158.7	8155.6	8161.8	8102.5	8074.4	8108.7	8130.6	8168.1	8140.0
42.5°	8948.7	8933.0	8883.1	8876.8	8842.5	8823.8	8798.8	8826.9	8861.2	8886.2	8895.6
45°	9679.3	9666.8	9610.6	9610.6	9576.2	9560.6	9573.1	9620.0	9635.6	9669.9	9704.3
47.5°	10400.5	10384.9	10347.5	10363.1	10366.2	10394.3	10434.9	10478.6	10522.3	10569.2	10584.8
50°	11137.4	11140.5	11100.0	11137.4	11184.3	11262.3	11371.6	11443.4	11534.0	11593.3	11612.0
52.5°	11808.7	11821.2	11864.9	11952.4	12046.0	12199.0	12386.4	12561.2	12711.1	12811.0	12804.8
55°	12614.3	12633.0	12739.2	12889.1	13042.1	13273.1	13551.0	13860.1	14109.9	14253.5	14163.0
57.5°	13644.7	13685.3	13803.9	14006.9	14234.8	14534.5	14915.5	15380.7	15767.9	15961.5	15814.7
60°	15059.1	15084.1	15227.7	15452.5	15727.3	16098.8	16607.8	17232.3	17778.7	18034.7	17866.1
62.5°	16923.1	16970.0	17085.5	17313.4	17594.4	18016.0	18637.3	19417.9	20098.6	20454.5	20073.6
65°	19149.4	19299.2	19396.0	19627.1	19889.4	20335.9	20985.3	21822.1	22552.7	22786.9	22346.7
67.5°	21353.8	21484.9	21653.5	21918.9	22184.3	22687.0	23289.6	24101.4	24903.9	25116.2	24432.4
70°	22318.6	22393.5	22655.8	23018.0	23526.9	24120.2	24816.4	25728.2	26721.1	26895.9	26027.9
72.5°	20385.8	20460.8	20754.3	21369.4	22256.1	23199.1	24413.7	25753.1	27064.5	27261.2	26065.4
75°	15418.2	15296.4	15730.4	16545.3	17741.2	19055.7	20754.3	22674.5	24569.8	24816.4	23389.5
77.5°	7968.2	7952.6	8280.5	9292.1	10719.0	12214.6	14084.9	16255.0	18109.6	18859.0	17697.5
80°	2245.0	2269.9	2426.1	2928.8	3762.4	4842.8	6304.0	8336.7	9854.1	10628.5	9979.0
82.5°	880.5	949.2	1008.5	1102.2	1211.5	1370.7	1829.7	2722.7	3653.2	4365.0	3575.1
85°	315.4	337.2	477.7	565.1	574.5	605.7	690.0	805.6	971.1	1158.4	952.3
87.5°	118.6	131.1	153.0	252.9	249.8	227.9	277.9	290.4	218.6	199.8	246.7
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°	4820.9	4820.9	4820.9	4820.9	4820.9	4820.9	4820.9	4820.9
2.5°	4808.4	4811.5	4811.5	4814.7	4817.8	4817.8	4824.0	4824.0
5°	4811.5	4811.5	4805.3	4808.4	4805.3	4805.3	4808.4	4808.4
7.5°	4805.3	4802.2	4795.9	4792.8	4786.6	4786.6	4786.6	4786.6
10°	4795.9	4792.8	4786.6	4783.4	4780.3	4780.3	4780.3	4780.3
12.5°	4820.9	4811.5	4805.3	4802.2	4802.2	4802.2	4802.2	4802.2
15°	4886.5	4864.6	4849.0	4849.0	4852.1	4858.4	4858.4	4864.6
17.5°	4967.7	4942.7	4927.1	4914.6	4920.8	4930.2	4936.4	4942.7
20°	5064.5	5052.0	5030.1	5017.6	5017.6	5030.1	5036.4	5039.5
22.5°	5198.7	5189.3	5180.0	5164.4	5164.4	5170.6	5183.1	5183.1
25°	5398.5	5392.3	5386.1	5373.6	5370.4	5370.4	5376.7	5382.9
27.5°	5648.3	5651.5	5645.2	5642.1	5632.7	5629.6	5639.0	5635.8
30°	5982.4	5998.0	6013.6	6001.2	5985.5	5976.2	5966.8	5954.3
32.5°	6435.2	6416.4	6403.9	6382.1	6354.0	6329.0	6310.3	6288.4
35°	6862.9	6831.7	6819.2	6837.9	6834.8	6819.2	6797.4	6778.6
37.5°	7387.5	7381.2	7387.5	7421.8	7415.6	7431.2	7387.5	7384.4
40°	8049.4	8055.7	8099.4	8140.0	8161.8	8183.7	8158.7	8133.7
42.5°	8817.5	8814.4	8830.0	8886.2	8923.7	8948.7	8895.6	8889.3
45°	9629.3	9607.5	9620.0	9666.8	9704.3	9732.4	9673.0	9673.0
47.5°	10522.3	10484.9	10444.3	10497.3	10519.2	10537.9	10491.1	10475.5
50°	11518.4	11440.3	11352.9	11374.7	11374.7	11368.5	11309.2	11306.0
52.5°	12661.1	12517.5	12358.3	12298.9	12264.6	12227.1	12124.1	12074.1
55°	13975.6	13760.2	13510.4	13357.4	13276.2	13173.2	13001.5	12954.6
57.5°	15511.8	15174.6	14743.7	14556.4	14375.3	14206.7	14016.2	13963.2
60°	17332.2	16835.7	16264.3	15917.7	15721.0	15558.7	15362.0	15352.6
62.5°	19361.7	18578.0	17931.7	17619.4	17475.8	17332.2	17144.8	17169.8
65°	21425.6	20607.5	20001.8	19748.9	19614.6	19496.0	19308.6	19336.7
67.5°	23461.3	22708.9	22043.8	21784.6	21634.8	21484.9	21316.3	21344.4
70°	24922.6	23989.0	23239.7	22665.1	22306.1	21900.2	21637.9	21572.3
72.5°	24504.2	23064.8	21875.2	20735.5	20067.3	19524.1	19155.6	18996.4
75°	21207.0	19239.9	17710.0	16311.2	15524.3	14884.2	14419.0	14128.6
77.5°	15749.1	13538.5	11730.7	10119.5	8845.6	7990.1	7387.5	6997.2
80°	8620.8	6556.9	4792.8	3369.0	2476.0	2057.6	1817.2	1701.7
82.5°	2685.2	1732.9	1277.0	1102.2	1024.1	980.4	908.6	793.1
85°	855.5	749.4	696.3	665.1	633.8	552.7	380.9	346.6
87.5°	331.0	340.3	337.2	318.5	324.7	234.2	187.3	165.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)