

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: P190825

Luminaire Tested: **GAN-AF-07-LED-U-5MQ-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190825
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-07-LED-U-5MQ-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49631.5 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G4

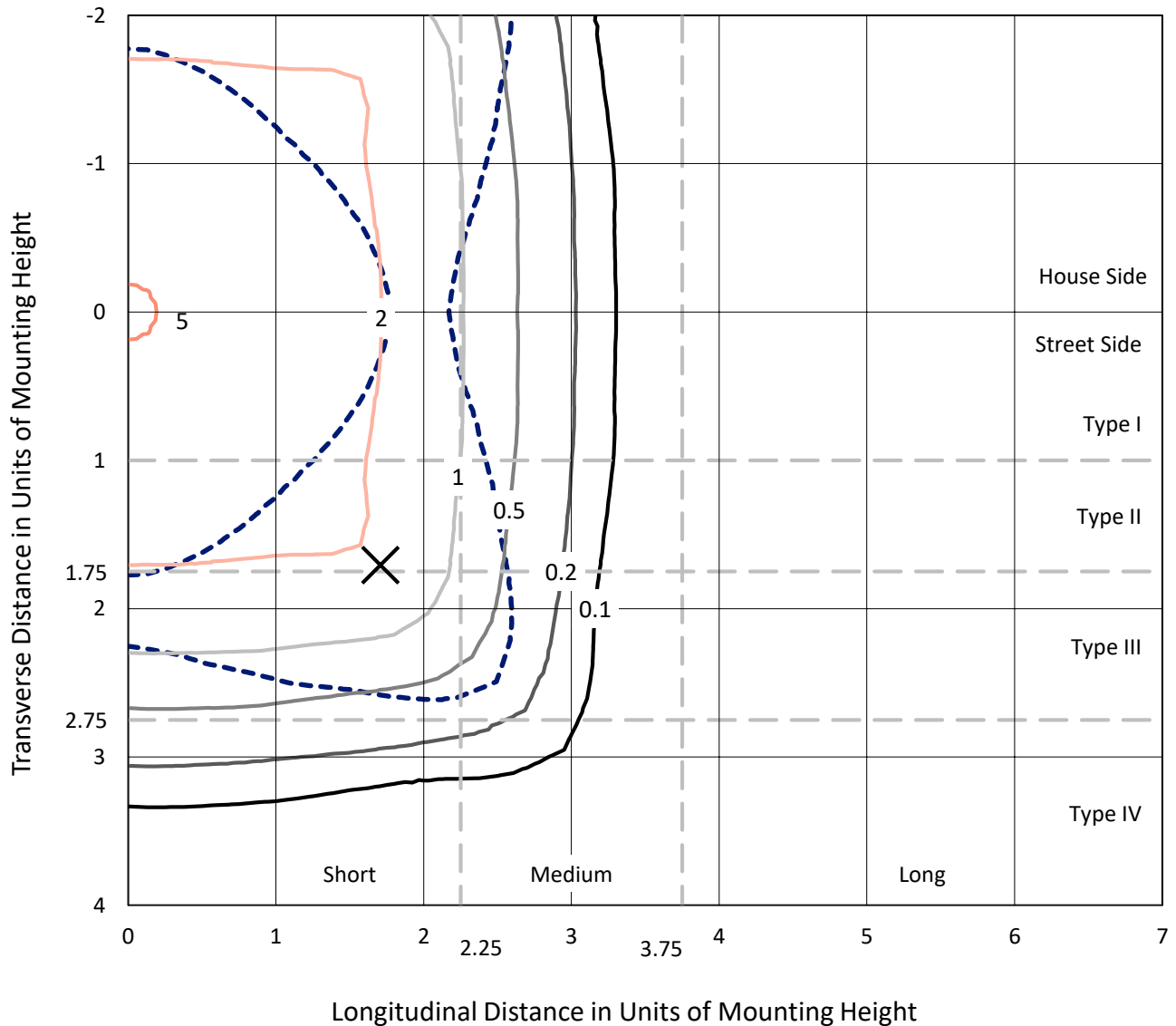
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

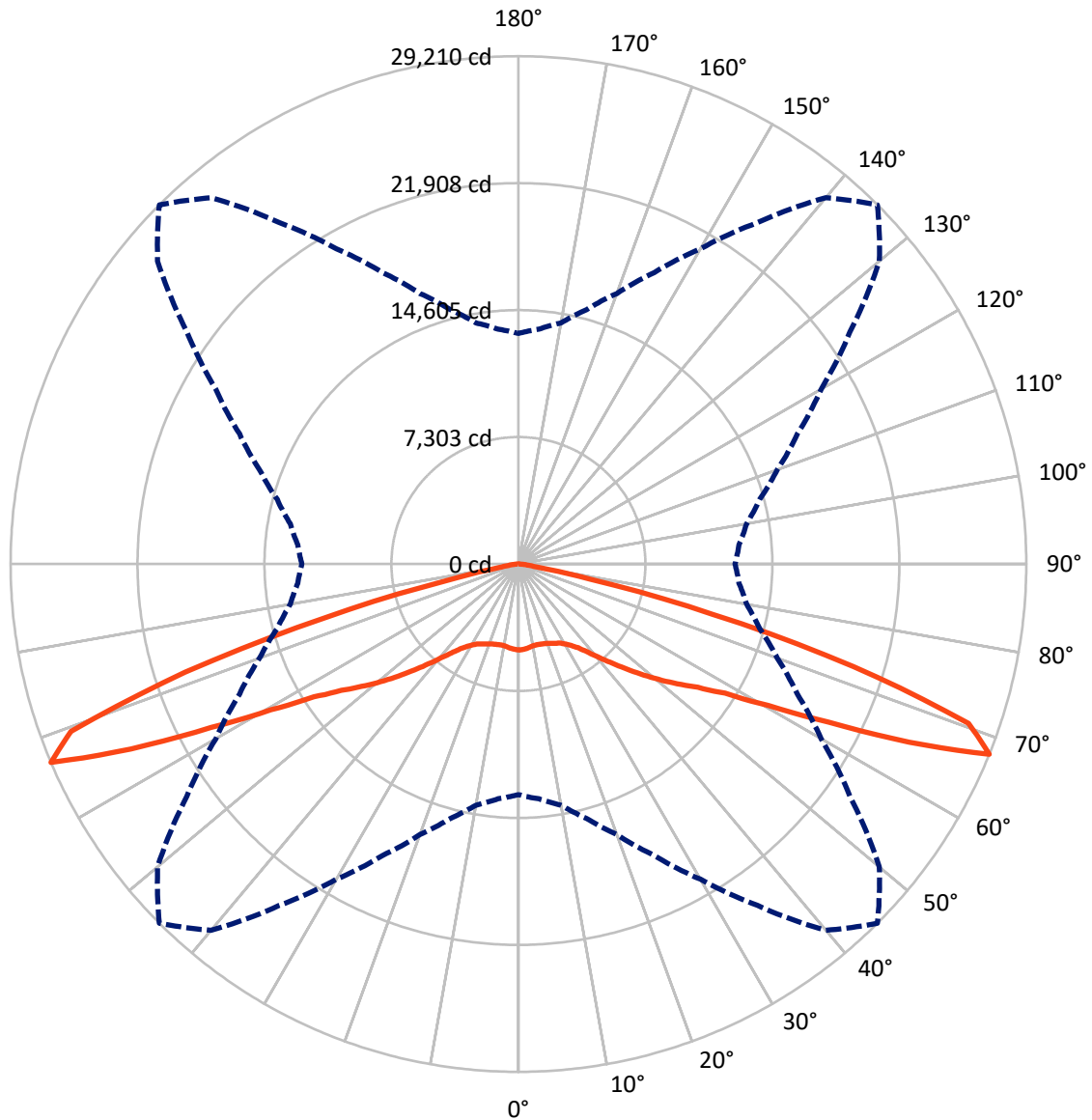
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 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	24815.8	0.0	24815.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24815.8	0.0	24815.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	49631.5	0.0	49631.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.9	0.9
10°-20°	1343.3	2.7
20°-30°	2283.6	4.6
30°-40°	3733.0	7.5
40°-50°	6664.1	13.4
50°-60°	11235.8	22.6
60°-70°	17436.3	35.1
70°-80°	6126.3	12.3
80°-90°	346.2	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°	49631.5	100.0
0°-180°	49631.5	100.0



REPORT NUMBER: P190825

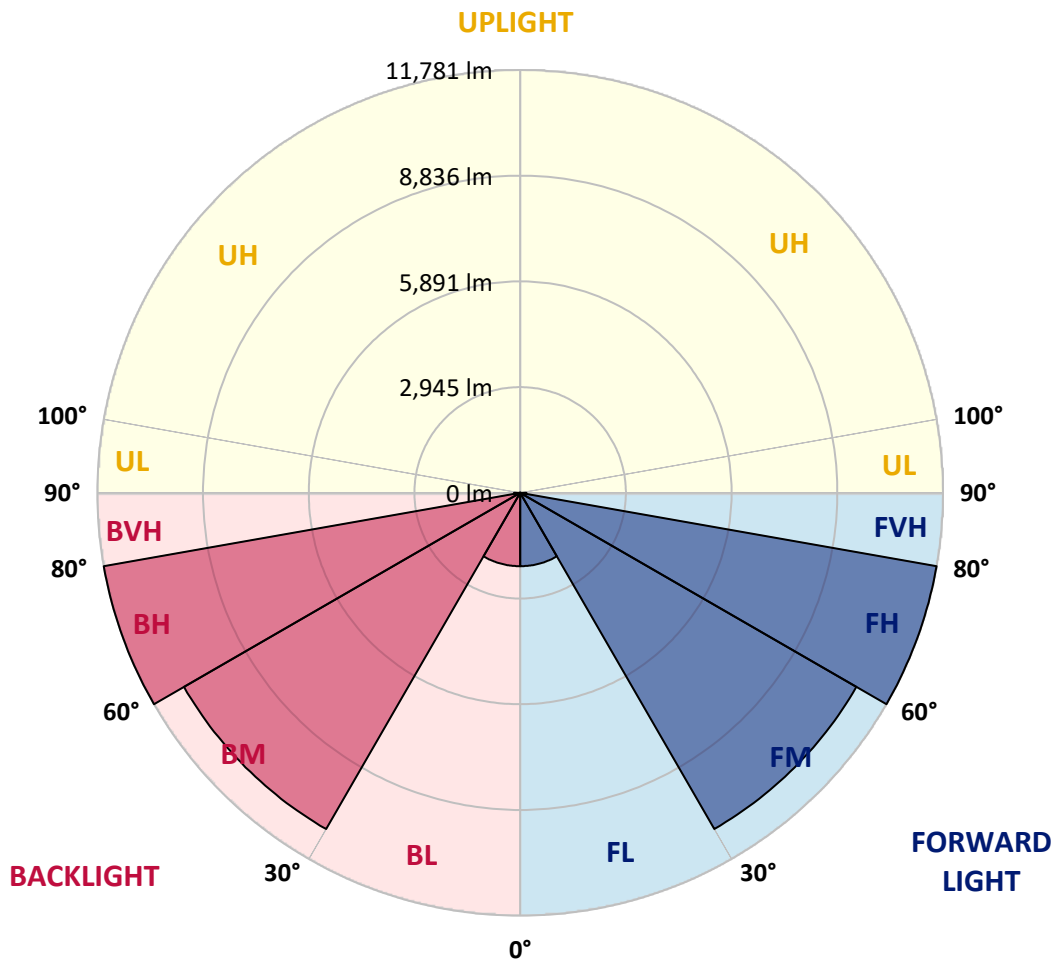
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2044.9	4.1			
FM	(30°-60°)	10816.4	21.8			
FH	(60°-80°)	11781.3	23.7			G4/12000
FVH	(80°-90°)	173.1	0.3			G2/225
BL	(0°-30°)	2044.9	4.1	B3/2500		
BM	(30°-60°)	10816.4	21.8	B5		
BH	(60°-80°)	11781.3	23.7	B5		G4/12000
BVH	(80°-90°)	173.1	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°	4946.0	4946.0	4946.0	4946.0	4946.0	4946.0	4946.0	4946.0	4946.0	4946.0	4946.0
2.5°	4927.8	4932.3	4932.3	4932.3	4930.0	4930.0	4925.4	4930.0	4927.8	4920.9	4923.2
5°	4886.6	4891.2	4891.2	4888.9	4895.7	4893.5	4886.6	4891.2	4888.9	4884.4	4886.6
7.5°	4827.3	4834.2	4834.2	4831.9	4838.8	4836.4	4831.9	4834.2	4834.2	4827.3	4827.3
10°	4761.1	4765.7	4765.7	4763.4	4774.8	4774.8	4772.6	4779.3	4781.7	4774.8	4770.2
12.5°	4699.5	4706.3	4706.3	4715.5	4726.9	4731.5	4742.8	4752.0	4761.1	4758.9	4749.7
15°	4663.0	4667.5	4676.6	4688.1	4706.3	4722.4	4740.6	4761.1	4779.3	4783.9	4770.2
17.5°	4640.1	4647.0	4660.7	4676.6	4701.8	4729.2	4756.5	4783.9	4809.1	4818.2	4802.2
20°	4633.3	4637.9	4651.6	4679.0	4713.1	4754.3	4793.0	4825.1	4859.2	4870.7	4859.2
22.5°	4647.0	4656.2	4672.1	4704.0	4749.7	4802.2	4847.9	4891.2	4934.6	4955.1	4939.1
25°	4708.6	4717.7	4738.3	4779.3	4829.6	4884.4	4936.9	4987.1	5025.9	5046.4	5035.0
27.5°	4822.7	4834.2	4859.2	4900.3	4955.1	5014.5	5071.5	5112.6	5144.5	5151.4	5137.7
30°	4993.9	5019.0	5048.7	5094.4	5158.2	5208.5	5265.5	5302.1	5340.8	5340.8	5329.5
32.5°	5260.9	5286.1	5318.0	5361.4	5411.6	5466.3	5516.6	5548.6	5589.6	5592.0	5564.5
35°	5660.4	5671.8	5699.2	5726.6	5772.2	5820.2	5863.6	5884.0	5918.3	5920.5	5895.5
37.5°	6187.6	6189.9	6208.2	6217.3	6258.4	6310.9	6351.9	6365.6	6397.6	6393.0	6368.0
40°	6801.6	6813.0	6819.8	6833.5	6876.9	6927.1	6970.5	6977.3	7011.6	7004.8	6972.7
42.5°	7511.4	7516.0	7554.8	7575.4	7616.4	7641.5	7696.3	7703.1	7744.2	7725.9	7689.4
45°	8308.0	8349.1	8385.6	8426.7	8470.0	8499.7	8543.1	8534.0	8561.4	8534.0	8513.4
47.5°	9145.6	9175.3	9257.5	9321.3	9392.1	9417.3	9478.9	9451.5	9478.9	9440.1	9433.2
50°	10067.7	10120.3	10190.9	10264.0	10339.4	10380.4	10460.3	10426.0	10462.5	10426.0	10405.6
52.5°	10976.2	10989.9	11145.0	11252.3	11357.3	11405.2	11453.2	11437.2	11439.5	11437.2	11416.6
55°	11838.9	11870.8	12026.0	12172.1	12354.7	12489.4	12571.6	12562.4	12541.9	12521.3	12487.1
57.5°	12811.2	12843.1	13021.1	13201.5	13409.1	13600.9	13767.5	13938.7	14004.9	14023.1	13947.8
60°	14125.8	14123.6	14360.9	14580.0	14876.8	15162.1	15527.3	15899.3	16326.1	16524.6	16262.2
62.5°	15463.3	15518.2	15860.5	16248.6	16860.2	17455.9	18129.2	18791.1	19466.8	20016.8	19432.5
65°	15303.5	15513.6	16022.6	16901.3	18031.0	19373.2	20824.7	22360.8	23748.5	24702.5	23632.1
67.5°	13263.1	13562.1	14080.2	15148.4	16561.2	18496.7	20934.3	23972.2	27503.1	29210.4	27094.5
70°	9613.5	9951.4	10494.6	11537.6	12936.7	14776.3	17423.9	21071.3	25745.6	27466.5	25136.3
72.5°	4783.9	4966.5	5302.1	5966.3	7025.3	8518.0	10919.1	14424.8	18560.6	20140.1	18010.5
75°	1625.1	1709.6	1766.6	1983.4	2318.9	2905.5	4099.2	6306.3	9620.3	11533.1	9483.5
77.5°	938.0	940.4	979.2	1017.9	1075.0	1139.0	1298.7	1705.0	2948.9	4188.3	3051.6
80°	607.1	604.9	636.8	666.5	705.2	737.2	746.3	789.7	910.7	1079.6	965.5
82.5°	315.0	353.7	424.5	463.3	536.3	550.0	531.8	515.9	545.5	566.0	579.7
85°	173.5	150.7	226.0	292.2	324.1	328.7	328.7	310.4	321.8	315.0	342.4
87.5°	79.9	73.0	89.0	143.8	152.9	130.1	137.0	121.0	86.7	84.5	95.9
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°	4946.0	4946.0	4946.0	4946.0	4946.0	4946.0	4946.0	4946.0
2.5°	4923.2	4925.4	4925.4	4932.3	4934.6	4939.1	4943.7	4946.0
5°	4884.4	4891.2	4886.6	4893.5	4893.5	4898.1	4898.1	4900.3
7.5°	4827.3	4834.2	4834.2	4834.2	4831.9	4838.8	4838.8	4838.8
10°	4768.0	4772.6	4770.2	4765.7	4761.1	4768.0	4765.7	4763.4
12.5°	4749.7	4738.3	4729.2	4724.6	4715.5	4717.7	4710.9	4710.9
15°	4761.1	4740.6	4724.6	4717.7	4708.6	4704.0	4699.5	4701.8
17.5°	4790.8	4765.7	4745.2	4733.7	4722.4	4715.5	4706.3	4708.6
20°	4843.3	4813.6	4783.9	4761.1	4740.6	4729.2	4722.4	4720.0
22.5°	4920.9	4877.5	4834.2	4799.9	4772.6	4756.5	4749.7	4745.2
25°	5009.9	4961.9	4911.8	4872.9	4845.6	4825.1	4811.3	4811.3
27.5°	5121.7	5082.9	5037.3	4991.6	4966.5	4946.0	4936.9	4932.3
30°	5308.9	5272.4	5235.9	5192.5	5160.6	5140.0	5124.1	5110.4
32.5°	5548.6	5518.9	5489.3	5457.2	5427.6	5400.2	5375.1	5363.6
35°	5886.4	5863.6	5843.0	5806.5	5795.0	5779.1	5765.4	5754.0
37.5°	6351.9	6342.8	6342.8	6304.0	6294.9	6288.1	6274.4	6276.6
40°	6963.6	6972.7	6961.4	6947.7	6940.8	6922.5	6922.5	6938.6
42.5°	7687.2	7694.0	7719.1	7696.3	7721.4	7698.6	7684.9	7696.3
45°	8527.1	8552.2	8602.4	8579.6	8595.5	8556.8	8508.8	8511.2
47.5°	9469.8	9492.6	9513.1	9497.1	9499.4	9435.5	9371.6	9355.6
50°	10448.9	10458.0	10469.4	10446.6	10451.2	10380.4	10307.4	10309.7
52.5°	11416.6	11460.0	11505.6	11444.1	11430.4	11350.5	11247.8	11206.6
55°	12523.6	12585.3	12532.8	12425.5	12318.2	12211.0	12076.2	12053.4
57.5°	13888.5	13783.5	13619.2	13416.0	13267.7	13117.0	12980.1	12923.0
60°	15787.5	15392.6	15095.9	14794.6	14605.2	14420.3	14240.0	14212.6
62.5°	18471.5	17789.1	17198.0	16574.9	16066.0	15668.7	15351.5	15262.5
65°	21835.8	20222.2	18823.1	17517.5	16383.2	15527.3	14988.6	14751.3
67.5°	23282.9	20096.7	17697.9	15844.5	14360.9	13324.8	12742.7	12452.9
70°	20459.5	16666.2	14057.4	12201.8	10850.6	9745.9	9218.6	8908.3
72.5°	14075.6	10601.9	8383.3	6842.7	5763.1	4838.8	4473.6	4446.2
75°	6320.0	4185.9	2884.9	2223.1	1871.6	1627.3	1552.0	1494.9
77.5°	1768.9	1307.8	1166.3	1091.0	1017.9	933.5	901.5	908.4
80°	860.5	812.5	780.6	732.6	666.5	595.7	563.7	577.5
82.5°	570.6	563.7	584.3	550.0	454.2	385.8	324.1	296.8
85°	346.9	351.5	358.3	360.6	305.9	214.5	146.1	164.3
87.5°	137.0	157.5	171.1	178.0	166.6	102.7	82.1	84.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)