

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: P190906

Luminaire Tested: **GLEON-AF-08-LED-E1-5WQ-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190906
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-08-LED-E1-5WQ-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 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: 56386.1 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 511
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

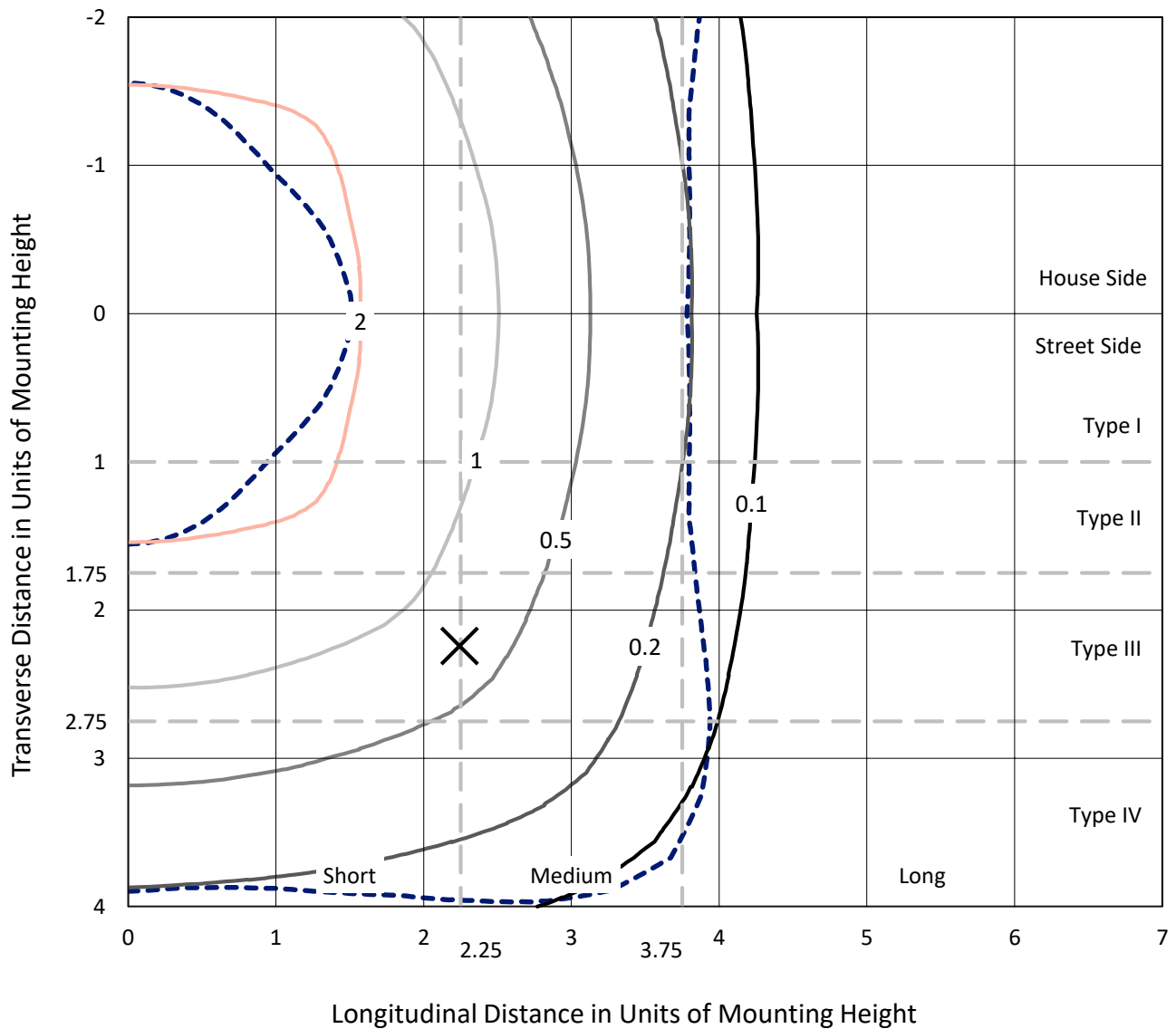


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Iso-Footcandle Lines of Horizontal Illumination

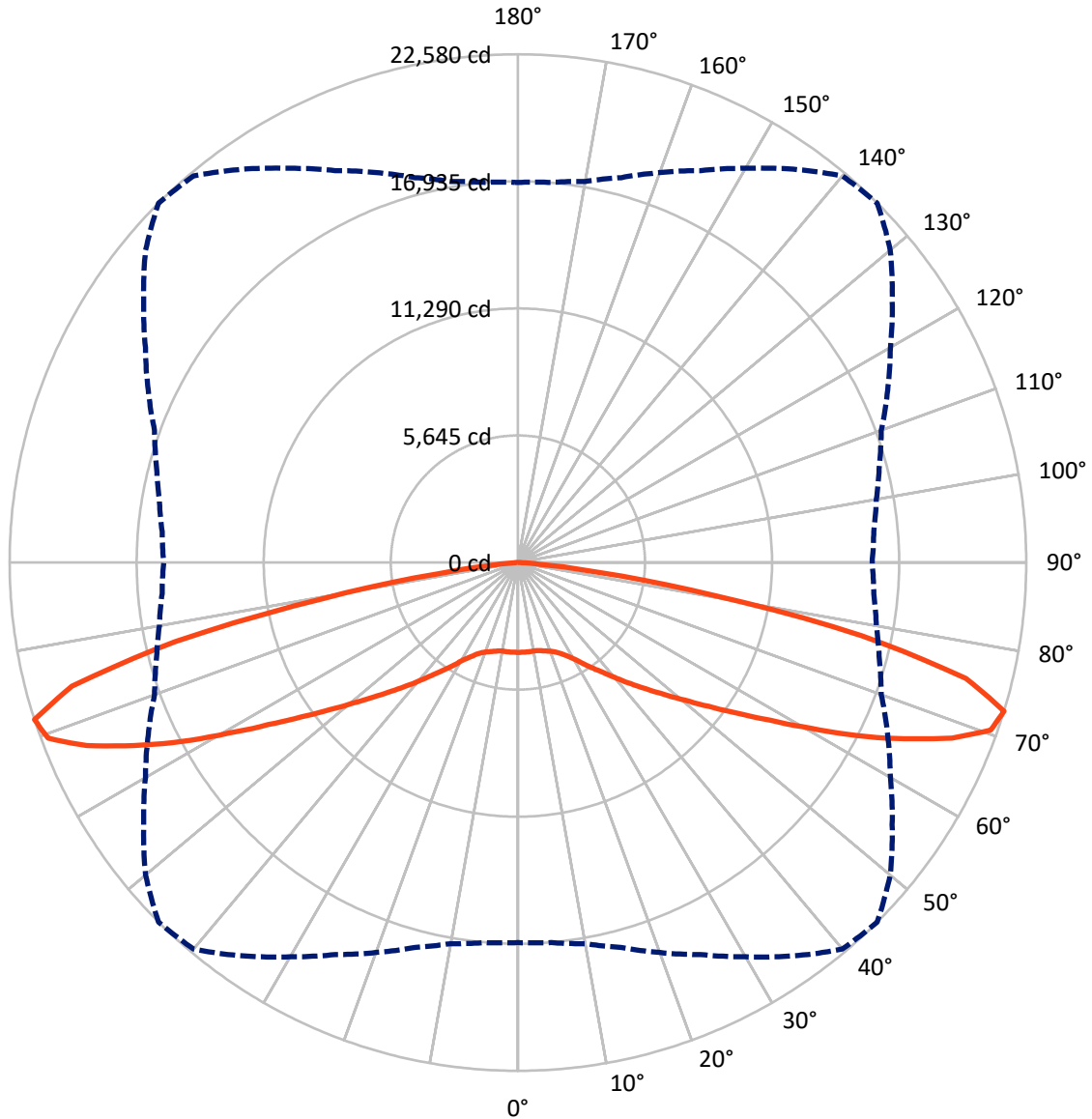
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.4 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	28193.0	0.0	28193.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	28193.0	0.0	28193.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	56386.1	0.0	56386.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.3	0.7
10°-20°	1158.0	2.1
20°-30°	2116.2	3.8
30°-40°	3648.6	6.5
40°-50°	6237.3	11.1
50°-60°	10109.8	17.9
60°-70°	16771.8	29.7
70°-80°	14772.0	26.2
80°-90°	1191.0	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°	56386.1	100.0
0°-180°	56386.1	100.0



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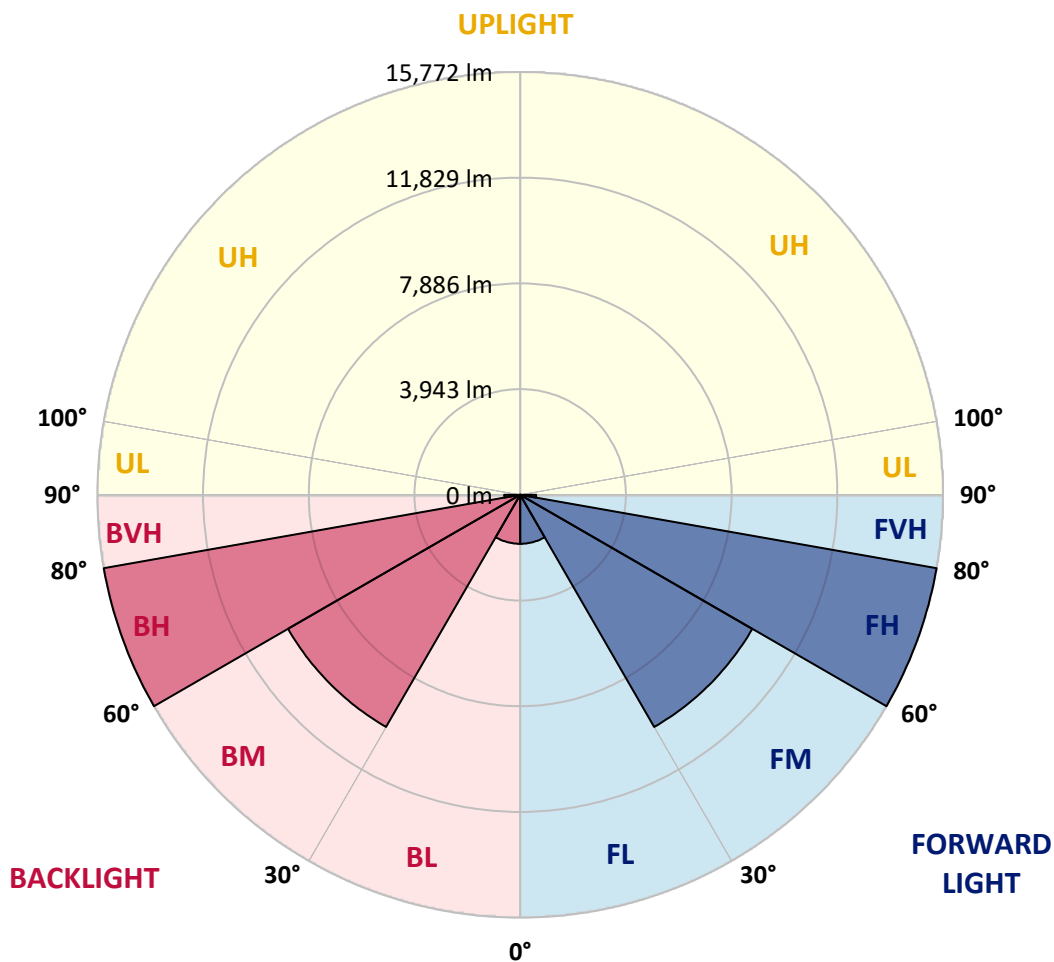
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1827.7	3.2			
FM	(30°-60°)	9997.9	17.7			
FH	(60°-80°)	15771.9	28.0			G5
FVH	(80°-90°)	595.5	1.1			G4/750
BL	(0°-30°)	1827.7	3.2	B3/2500		
BM	(30°-60°)	9997.9	17.7	B5		
BH	(60°-80°)	15771.9	28.0	B5		G5
BVH	(80°-90°)	595.5	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°	3993.0	3993.0	3993.0	3993.0	3993.0	3993.0	3993.0	3993.0	3993.0	3993.0	3993.0
2.5°	3993.0	3995.6	3998.2	3995.6	3995.6	3993.0	3990.4	3993.0	3990.4	3985.2	3987.9
5°	4006.0	4011.1	4011.1	4006.0	4008.5	4006.0	4000.8	4003.3	3998.2	3990.4	3990.4
7.5°	4021.4	4024.1	4024.1	4018.9	4021.4	4016.3	4011.1	4008.5	4003.3	3993.0	3985.2
10°	4044.7	4047.3	4044.7	4039.5	4039.5	4031.8	4018.9	4013.6	4003.3	3987.9	3980.1
12.5°	4070.6	4073.2	4070.6	4065.4	4062.9	4049.9	4039.5	4031.8	4024.1	4011.1	3998.2
15°	4106.8	4112.0	4106.8	4096.4	4088.7	4078.4	4073.2	4075.7	4078.4	4068.0	4055.1
17.5°	4174.0	4176.6	4168.8	4145.6	4135.3	4124.9	4124.9	4130.1	4137.8	4132.6	4119.7
20°	4298.1	4290.5	4272.4	4243.9	4230.9	4212.8	4210.3	4212.8	4212.8	4210.3	4199.9
22.5°	4453.3	4448.2	4424.9	4388.7	4370.6	4360.2	4344.7	4331.8	4329.2	4321.5	4311.1
25°	4639.6	4636.9	4608.5	4577.5	4564.5	4551.6	4538.7	4520.6	4505.1	4487.0	4476.6
27.5°	4877.4	4867.1	4825.8	4810.2	4792.1	4784.3	4766.2	4745.6	4732.7	4709.4	4696.5
30°	5138.7	5138.7	5105.0	5099.9	5099.9	5081.8	5061.0	5024.8	5001.6	4978.3	4970.6
32.5°	5399.9	5402.5	5368.9	5379.2	5387.0	5399.9	5405.1	5392.1	5376.6	5374.0	5358.5
35°	5777.4	5767.1	5733.5	5741.2	5738.7	5736.1	5736.1	5764.5	5769.6	5774.9	5743.9
37.5°	6245.5	6245.5	6212.0	6212.0	6196.4	6180.9	6160.2	6178.3	6206.8	6214.5	6193.9
40°	6780.8	6798.9	6757.6	6755.1	6760.2	6711.1	6687.7	6716.2	6734.3	6765.4	6742.1
42.5°	7411.9	7399.0	7357.6	7352.5	7323.9	7308.5	7287.8	7311.0	7339.5	7360.1	7367.9
45°	8017.1	8006.7	7960.2	7960.2	7931.8	7918.8	7929.1	7967.9	7980.9	8009.3	8037.7
47.5°	8614.5	8601.5	8570.5	8583.4	8586.0	8609.3	8642.9	8679.1	8715.3	8754.1	8767.0
50°	9224.8	9227.3	9193.8	9224.8	9263.5	9328.2	9418.7	9478.3	9553.2	9602.3	9617.9
52.5°	9780.8	9791.2	9827.4	9899.8	9977.4	10104.1	10259.3	10404.0	10528.2	10611.0	10605.7
55°	10448.0	10463.6	10551.4	10675.6	10802.4	10993.8	11223.9	11479.9	11686.8	11805.8	11730.8
57.5°	11301.5	11335.1	11433.3	11601.5	11790.2	12038.5	12354.0	12739.3	13060.0	13220.4	13098.8
60°	12472.9	12493.7	12612.7	12798.9	13026.5	13334.2	13755.7	14272.9	14725.5	14937.5	14797.9
62.5°	14016.9	14055.8	14151.4	14340.1	14573.0	14922.1	15436.7	16083.2	16647.0	16941.8	16626.3
65°	15860.9	15984.9	16065.1	16256.5	16473.7	16843.6	17381.5	18074.6	18679.7	18873.6	18509.1
67.5°	17686.6	17795.3	17934.9	18154.7	18374.5	18790.9	19290.1	19962.5	20627.1	20802.9	20236.6
70°	18485.7	18547.8	18765.1	19065.0	19486.6	19978.0	20554.7	21309.8	22132.3	22277.1	21558.1
72.5°	16884.9	16947.0	17190.1	17699.6	18434.1	19215.1	20221.1	21330.6	22416.7	22579.6	21589.2
75°	12770.4	12669.6	13029.0	13704.0	14694.5	15783.2	17190.1	18780.6	20350.4	20554.7	19372.8
77.5°	6599.9	6586.9	6858.5	7696.4	8878.2	10117.0	11666.1	13463.5	14999.6	15620.4	14658.3
80°	1859.4	1880.1	2009.5	2425.8	3116.3	4011.1	5221.4	6905.0	8161.9	8803.2	8265.3
82.5°	729.3	786.1	835.3	912.9	1003.4	1135.3	1515.5	2255.1	3025.8	3615.4	2961.1
85°	261.2	279.3	395.7	468.1	475.9	501.8	571.5	667.3	804.2	959.4	788.8
87.5°	98.3	108.6	126.7	209.5	206.8	188.8	230.2	240.5	181.1	165.5	204.3
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°	3993.0	3993.0	3993.0	3993.0	3993.0	3993.0	3993.0	3993.0
2.5°	3982.7	3985.2	3985.2	3987.9	3990.4	3990.4	3995.6	3995.6
5°	3985.2	3985.2	3980.1	3982.7	3980.1	3980.1	3982.7	3982.7
7.5°	3980.1	3977.5	3972.3	3969.8	3964.5	3964.5	3964.5	3964.5
10°	3972.3	3969.8	3964.5	3962.0	3959.4	3959.4	3959.4	3959.4
12.5°	3993.0	3985.2	3980.1	3977.5	3977.5	3977.5	3977.5	3977.5
15°	4047.3	4029.2	4016.3	4016.3	4018.9	4024.1	4024.1	4029.2
17.5°	4114.5	4093.8	4081.0	4070.6	4075.7	4083.5	4088.7	4093.8
20°	4194.7	4184.4	4166.3	4155.9	4155.9	4166.3	4171.5	4174.0
22.5°	4305.9	4298.1	4290.5	4277.5	4277.5	4282.7	4293.0	4293.0
25°	4471.4	4466.3	4461.1	4450.8	4448.2	4448.2	4453.3	4458.5
27.5°	4678.4	4680.9	4675.7	4673.1	4665.4	4662.8	4670.6	4668.0
30°	4955.1	4968.0	4981.0	4970.6	4957.6	4949.9	4942.1	4931.7
32.5°	5330.1	5314.5	5304.2	5286.1	5262.8	5242.1	5226.6	5208.5
35°	5684.3	5658.5	5648.1	5663.7	5661.1	5648.1	5630.0	5614.6
37.5°	6118.8	6113.7	6118.8	6147.3	6142.1	6155.0	6118.8	6116.2
40°	6667.1	6672.3	6708.5	6742.1	6760.2	6778.3	6757.6	6736.9
42.5°	7303.3	7300.7	7313.6	7360.1	7391.2	7411.9	7367.9	7362.8
45°	7975.6	7957.5	7967.9	8006.7	8037.7	8061.1	8011.9	8011.9
47.5°	8715.3	8684.2	8650.7	8694.7	8712.7	8728.2	8689.5	8676.6
50°	9540.2	9475.6	9403.3	9421.4	9421.4	9416.2	9367.1	9364.4
52.5°	10486.8	10367.8	10236.0	10186.9	10158.4	10127.3	10042.0	10000.7
55°	11575.6	11397.1	11190.3	11063.5	10996.3	10911.0	10768.7	10729.9
57.5°	12848.0	12568.7	12211.8	12056.6	11906.6	11767.0	11609.2	11565.3
60°	14355.7	13944.5	13471.2	13184.2	13021.2	12886.7	12723.9	12716.1
62.5°	16036.7	15387.5	14852.2	14593.6	14474.7	14355.7	14200.5	14221.3
65°	17746.2	17068.5	16566.9	16357.4	16246.2	16147.9	15992.7	16016.0
67.5°	19432.3	18809.0	18258.2	18043.5	17919.4	17795.3	17655.6	17678.9
70°	20642.6	19869.4	19248.7	18772.9	18475.4	18139.3	17922.0	17867.7
72.5°	20296.1	19103.9	18118.5	17174.6	16621.2	16171.2	15866.0	15734.1
75°	17565.1	15935.8	14668.6	13510.0	12858.3	12328.2	11942.8	11702.4
77.5°	13044.6	11213.5	9716.2	8381.6	7326.6	6618.0	6118.8	5795.5
80°	7140.3	5430.9	3969.8	2790.4	2050.8	1704.2	1505.2	1409.4
82.5°	2224.1	1435.3	1057.7	912.9	848.2	812.0	752.6	656.8
85°	708.6	620.6	576.7	550.9	525.0	457.8	315.5	287.0
87.5°	274.2	281.9	279.3	263.8	268.9	194.0	155.2	137.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)