

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: P190907

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190907
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-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 62898.2 lumens
Efficiency: N/A
Efficacy: 109.4 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

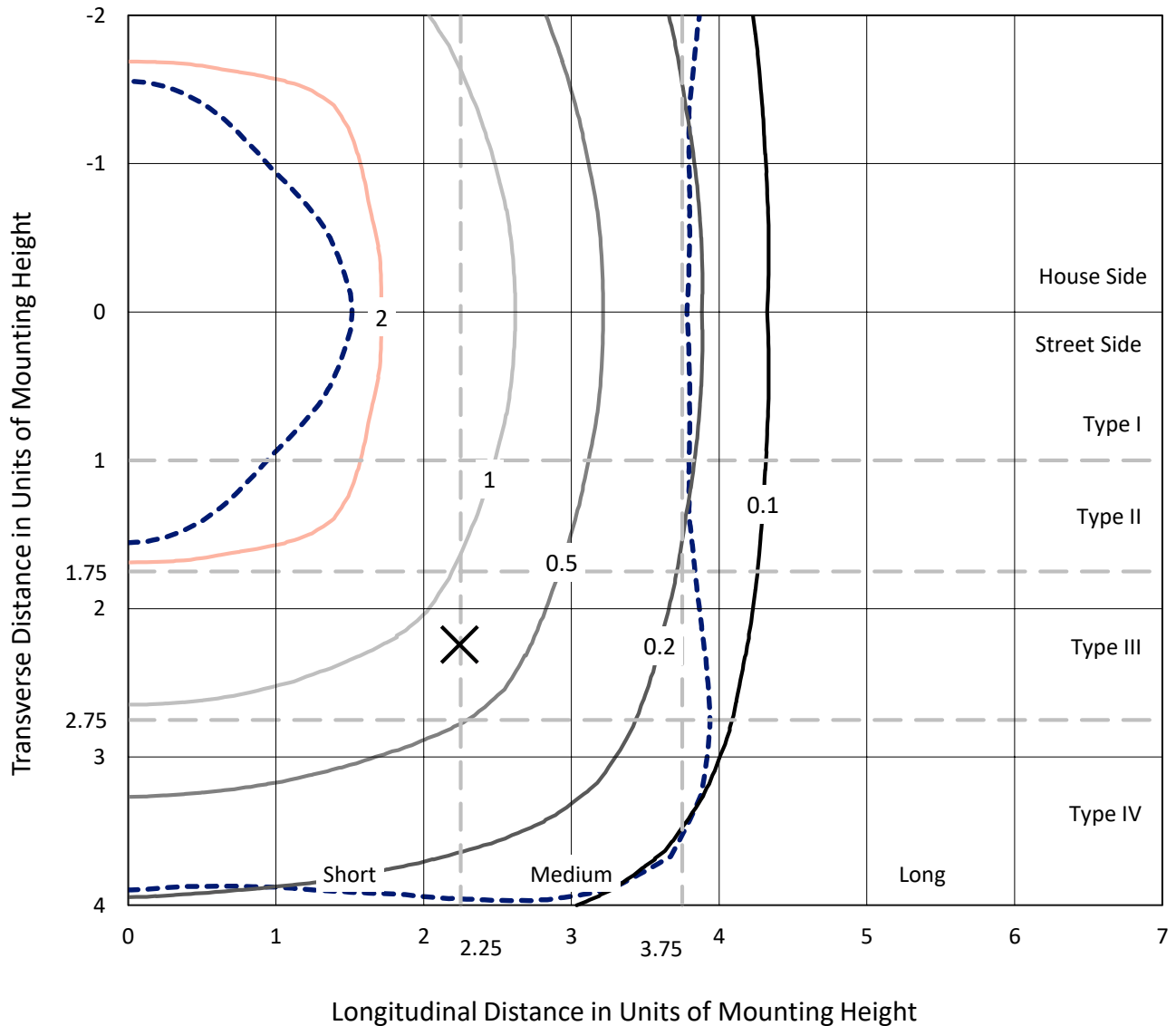
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

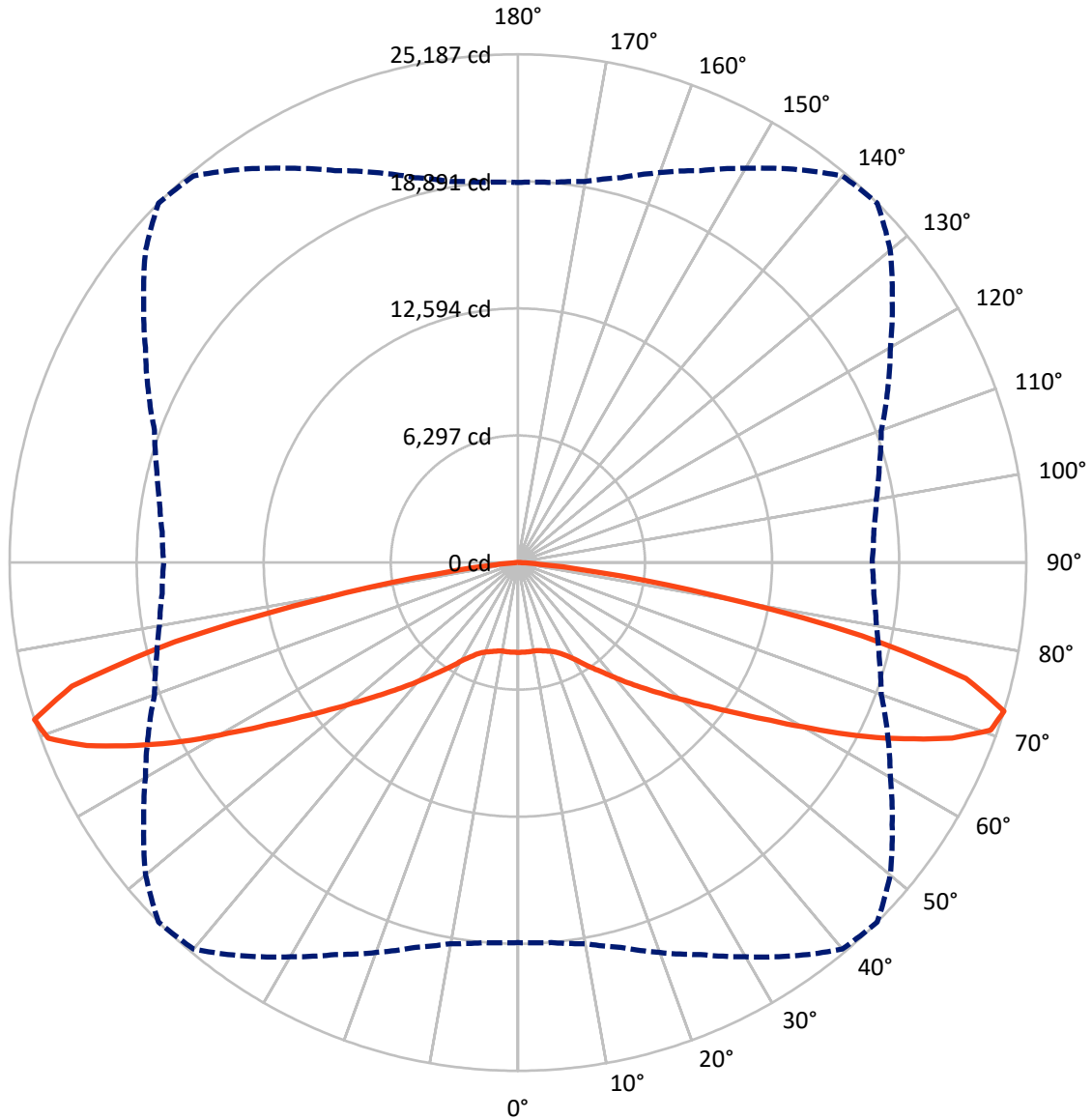
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.9 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	31449.1	0.0	31449.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	31449.1	0.0	31449.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	62898.2	0.0	62898.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.3	0.7
10°-20°	1291.7	2.1
20°-30°	2360.5	3.8
30°-40°	4070.0	6.5
40°-50°	6957.6	11.1
50°-60°	11277.4	17.9
60°-70°	18708.8	29.7
70°-80°	16478.1	26.2
80°-90°	1328.6	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°	62898.2	100.0
0°-180°	62898.2	100.0



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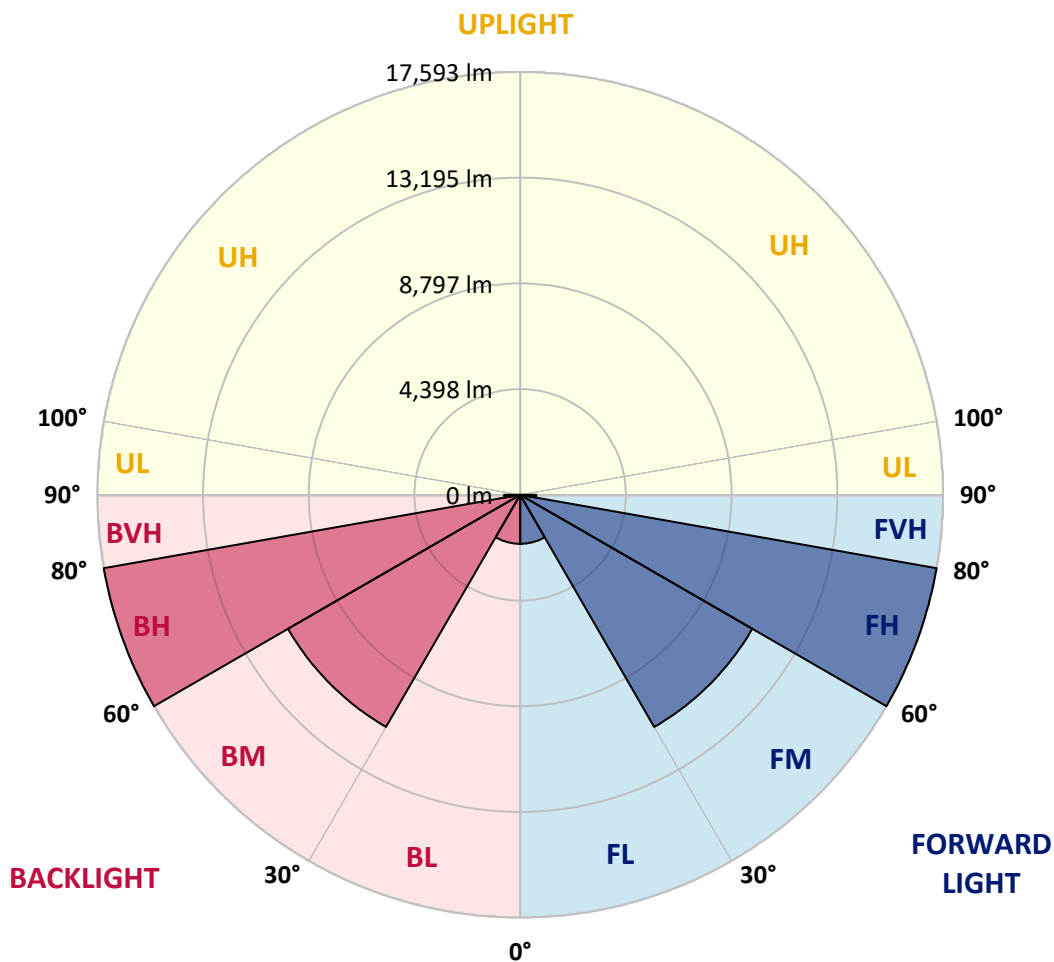
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2038.8	3.2			
FM	(30°-60°)	11152.5	17.7			
FH	(60°-80°)	17593.5	28.0			G5
FVH	(80°-90°)	664.3	1.1			G4/750
BL	(0°-30°)	2038.8	3.2	B3/2500		
BM	(30°-60°)	11152.5	17.7	B5		
BH	(60°-80°)	17593.5	28.0	B5		G5
BVH	(80°-90°)	664.3	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°	4454.1	4454.1	4454.1	4454.1	4454.1	4454.1	4454.1	4454.1	4454.1	4454.1	4454.1
2.5°	4454.1	4457.1	4460.0	4457.1	4457.1	4454.1	4451.3	4454.1	4451.3	4445.5	4448.4
5°	4468.6	4474.4	4474.4	4468.6	4471.5	4468.6	4462.8	4465.7	4460.0	4451.3	4451.3
7.5°	4485.9	4488.8	4488.8	4483.0	4485.9	4480.1	4474.4	4471.5	4465.7	4454.1	4445.5
10°	4511.8	4514.8	4511.8	4506.1	4506.1	4497.4	4483.0	4477.3	4465.7	4448.4	4439.7
12.5°	4540.7	4543.6	4540.7	4534.9	4532.1	4517.7	4506.1	4497.4	4488.8	4474.4	4460.0
15°	4581.1	4586.9	4581.1	4569.5	4560.9	4549.4	4543.6	4546.5	4549.4	4537.8	4523.4
17.5°	4656.1	4659.0	4650.3	4624.4	4612.8	4601.3	4601.3	4607.1	4615.8	4609.9	4595.5
20°	4794.6	4785.9	4765.7	4734.0	4719.6	4699.3	4696.5	4699.3	4699.3	4696.5	4684.9
22.5°	4967.7	4961.9	4935.9	4895.5	4875.4	4863.8	4846.5	4832.1	4829.1	4820.6	4809.0
25°	5175.4	5172.4	5140.7	5106.2	5091.7	5077.3	5062.9	5042.6	5025.3	5005.2	4993.6
27.5°	5440.8	5429.2	5383.1	5365.8	5345.5	5336.9	5316.7	5293.7	5279.2	5253.3	5238.8
30°	5732.1	5732.1	5694.7	5688.8	5688.8	5668.7	5645.6	5605.3	5579.3	5553.3	5544.6
32.5°	6023.5	6026.4	5988.9	6000.4	6009.1	6023.5	6029.3	6014.8	5997.6	5994.7	5977.3
35°	6444.7	6433.1	6395.7	6404.3	6401.4	6398.6	6398.6	6430.3	6436.0	6441.8	6407.2
37.5°	6966.8	6966.8	6929.4	6929.4	6912.1	6894.7	6871.7	6891.8	6923.5	6932.2	6909.1
40°	7564.0	7584.2	7538.0	7535.2	7540.9	7486.2	7460.2	7491.9	7512.0	7546.7	7520.7
42.5°	8267.9	8253.5	8207.3	8201.5	8169.8	8152.5	8129.4	8155.4	8187.1	8210.2	8218.9
45°	8942.9	8931.4	8879.5	8879.5	8847.7	8833.3	8844.8	8888.1	8902.5	8934.4	8966.1
47.5°	9609.4	9595.0	9560.3	9574.7	9577.6	9603.6	9641.1	9681.5	9721.8	9765.1	9779.5
50°	10290.2	10293.0	10255.6	10290.2	10333.4	10405.6	10506.5	10572.9	10656.6	10711.3	10728.7
52.5°	10910.4	10921.9	10962.4	11043.1	11129.6	11271.0	11444.1	11605.7	11744.1	11836.5	11830.6
55°	11654.7	11672.0	11770.1	11908.6	12050.0	12263.3	12520.1	12805.7	13036.5	13169.3	13085.6
57.5°	12606.6	12644.2	12753.8	12941.4	13151.9	13428.9	13780.8	14210.6	14568.4	14747.3	14611.6
60°	13913.5	13936.6	14069.3	14277.0	14530.8	14874.1	15344.4	15921.3	16426.2	16662.7	16506.9
62.5°	15635.7	15679.0	15785.8	15996.4	16256.0	16645.5	17219.5	17940.7	18569.6	18898.5	18546.5
65°	17692.7	17831.1	17920.6	18134.1	18376.3	18788.8	19388.9	20162.1	20837.1	21053.5	20646.7
67.5°	19729.3	19850.5	20006.3	20251.5	20496.7	20961.1	21517.9	22268.0	23009.3	23205.5	22573.8
70°	20620.7	20690.0	20932.2	21266.9	21737.2	22285.3	22928.6	23770.9	24688.3	24849.8	24047.9
72.5°	18835.0	18904.2	19175.4	19743.8	20563.1	21434.2	22556.5	23794.0	25005.6	25187.4	24082.5
75°	14245.3	14132.8	14533.8	15286.7	16391.6	17606.1	19175.4	20949.6	22700.7	22928.6	21610.2
77.5°	7362.1	7347.7	7650.5	8585.2	9903.6	11285.4	13013.5	15018.4	16732.0	17424.3	16351.2
80°	2074.2	2097.3	2241.5	2706.0	3476.2	4474.4	5824.5	7702.5	9104.5	9819.9	9219.9
82.5°	813.6	877.0	931.8	1018.3	1119.3	1266.4	1690.5	2515.5	3375.2	4033.0	3303.1
85°	291.3	311.6	441.4	522.1	530.8	559.7	637.5	744.3	897.2	1070.3	879.8
87.5°	109.7	121.1	141.4	233.6	230.8	210.6	256.8	268.3	201.9	184.6	227.9
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°	4454.1	4454.1	4454.1	4454.1	4454.1	4454.1	4454.1	4454.1
2.5°	4442.7	4445.5	4445.5	4448.4	4451.3	4451.3	4457.1	4457.1
5°	4445.5	4445.5	4439.7	4442.7	4439.7	4439.7	4442.7	4442.7
7.5°	4439.7	4436.8	4431.1	4428.3	4422.4	4422.4	4422.4	4422.4
10°	4431.1	4428.3	4422.4	4419.6	4416.7	4416.7	4416.7	4416.7
12.5°	4454.1	4445.5	4439.7	4436.8	4436.8	4436.8	4436.8	4436.8
15°	4514.8	4494.5	4480.1	4480.1	4483.0	4488.8	4488.8	4494.5
17.5°	4589.8	4566.7	4552.2	4540.7	4546.5	4555.1	4560.9	4566.7
20°	4679.2	4667.6	4647.5	4635.9	4635.9	4647.5	4653.2	4656.1
22.5°	4803.3	4794.6	4785.9	4771.5	4771.5	4777.3	4788.8	4788.8
25°	4987.9	4982.1	4976.3	4964.8	4961.9	4961.9	4967.7	4973.5
27.5°	5218.7	5221.6	5215.7	5212.9	5204.3	5201.3	5210.0	5207.1
30°	5527.3	5541.7	5556.2	5544.6	5530.2	5521.6	5512.9	5501.3
32.5°	5945.6	5928.3	5916.7	5896.6	5870.6	5847.5	5830.2	5810.1
35°	6340.9	6312.0	6300.5	6317.7	6314.9	6300.5	6280.3	6262.9
37.5°	6825.5	6819.7	6825.5	6857.2	6851.4	6865.8	6825.5	6822.6
40°	7437.1	7442.9	7483.2	7520.7	7540.9	7561.1	7538.0	7515.0
42.5°	8146.8	8143.8	8158.2	8210.2	8244.8	8267.9	8218.9	8213.1
45°	8896.8	8876.6	8888.1	8931.4	8966.1	8992.0	8937.2	8937.2
47.5°	9721.8	9687.2	9649.7	9698.8	9719.0	9736.2	9693.0	9678.5
50°	10642.1	10569.9	10489.2	10509.4	10509.4	10503.7	10448.8	10446.0
52.5°	11698.0	11565.3	11418.2	11363.3	11331.6	11297.0	11201.7	11155.6
55°	12912.5	12713.4	12482.7	12341.3	12266.3	12171.1	12012.4	11969.1
57.5°	14331.8	14020.3	13622.1	13449.0	13281.7	13126.0	12949.9	12900.9
60°	16013.7	15555.0	15027.0	14706.9	14525.1	14375.1	14193.3	14184.6
62.5°	17888.8	17164.7	16567.5	16279.0	16146.4	16013.7	15840.6	15863.6
65°	19795.6	19039.9	18480.2	18246.5	18122.5	18012.8	17839.8	17865.7
67.5°	21676.5	20981.3	20366.8	20127.4	19989.0	19850.5	19694.7	19720.7
70°	23026.6	22164.1	21471.7	20940.9	20609.2	20234.2	19991.8	19931.3
72.5°	22640.0	21310.2	20211.1	19158.1	18540.8	18038.8	17698.4	17551.3
75°	19593.7	17776.3	16362.7	15070.3	14343.3	13751.9	13322.1	13053.9
77.5°	14551.1	12508.6	10838.3	9349.7	8172.7	7382.2	6825.5	6464.8
80°	7965.0	6058.1	4428.3	3112.7	2287.6	1901.1	1679.0	1572.3
82.5°	2481.0	1601.1	1179.9	1018.3	946.2	905.8	839.4	732.7
85°	790.4	692.3	643.3	614.5	585.6	510.7	352.0	320.2
87.5°	305.8	314.5	311.6	294.3	300.0	216.4	173.1	152.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)