

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: P269521

Luminaire Tested: **GLEON-AF-08-LED-E1-5MQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269521
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: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-5MQ-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 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: 43539.5 lumens
Efficiency: N/A
Efficacy: 97.8 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): 445
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

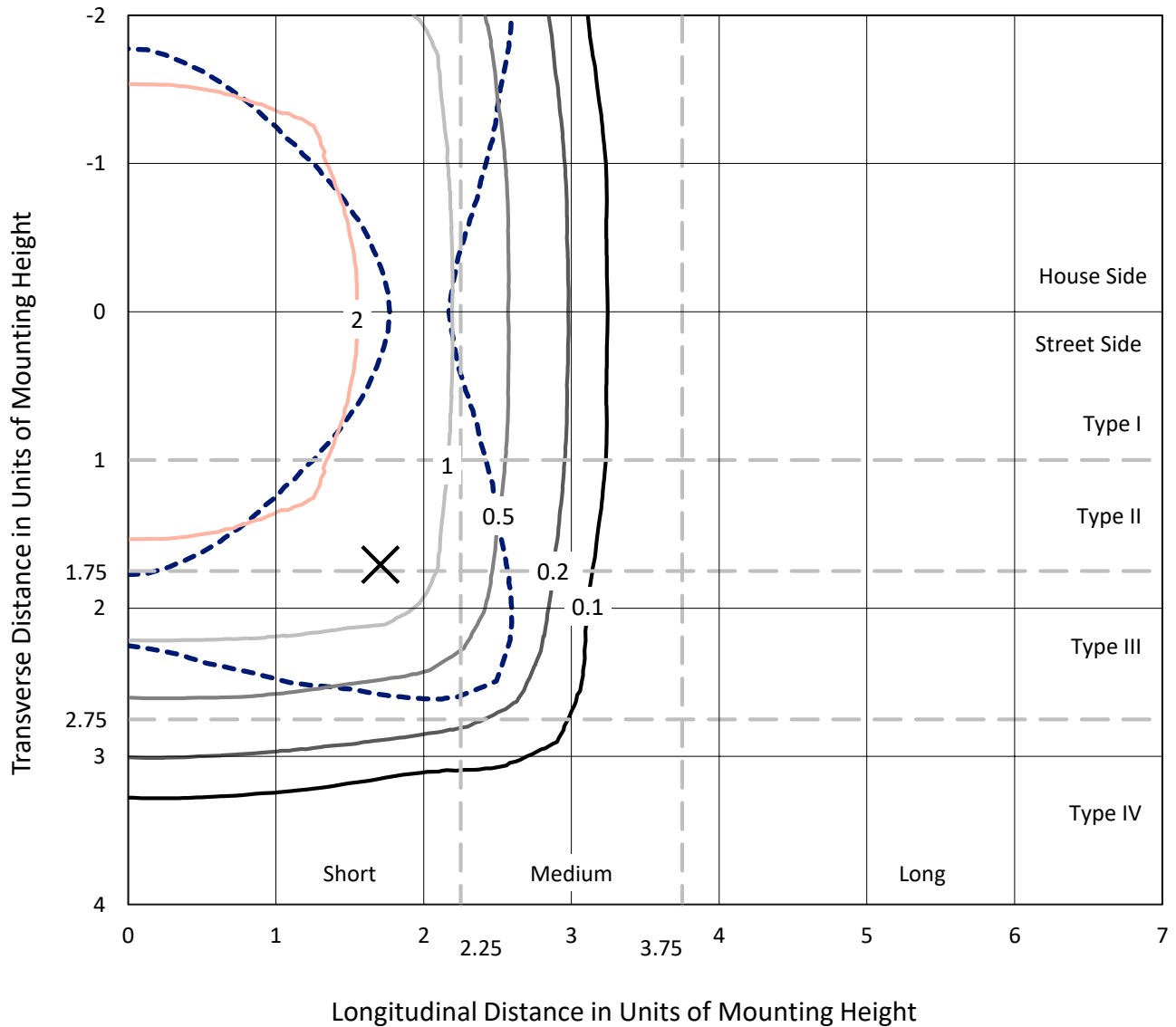


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Iso-Footcandle Lines of Horizontal Illumination

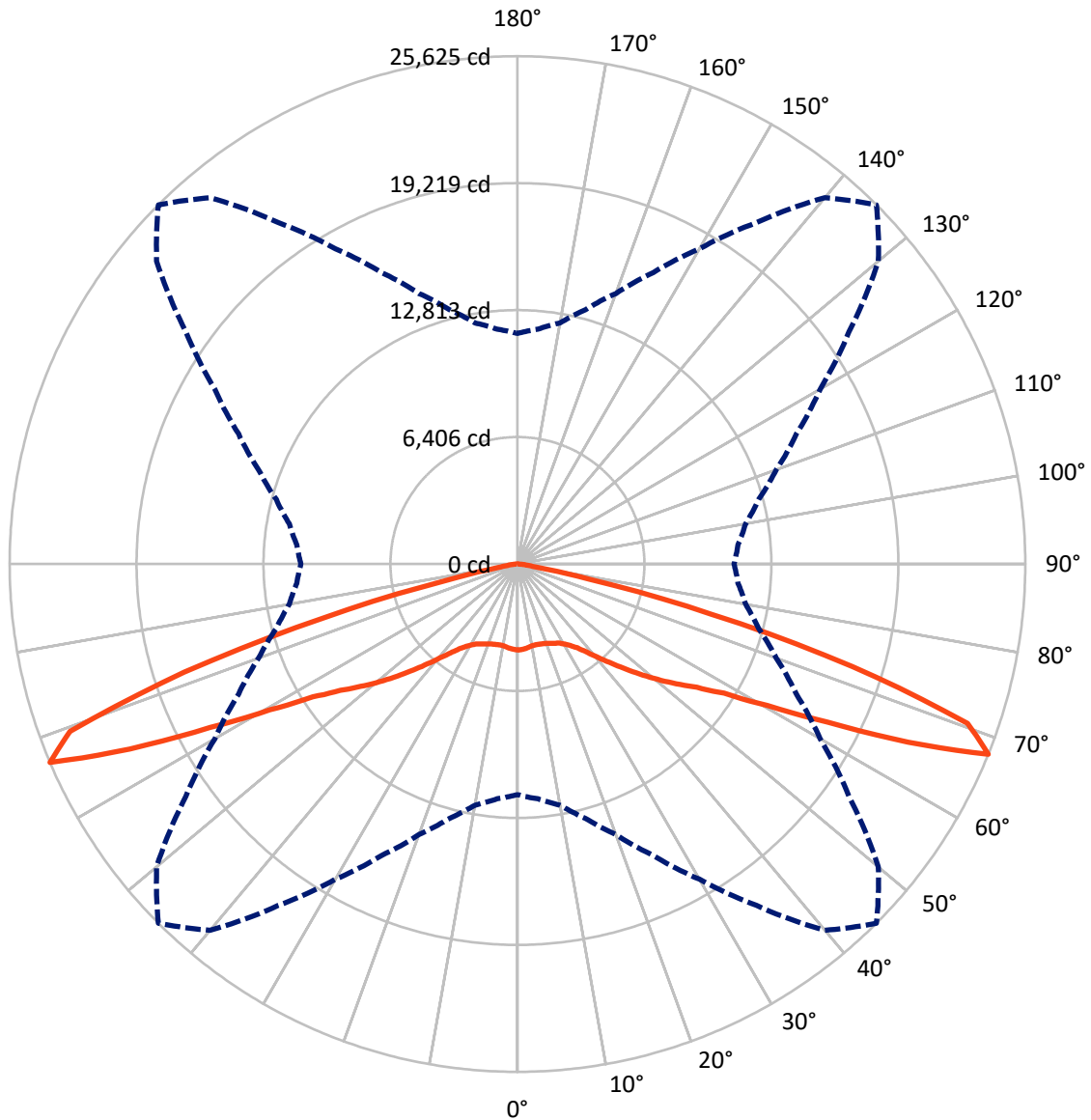
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.8 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	21769.8	0.0	21769.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21769.8	0.0	21769.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	43539.5	0.0	43539.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.1	0.9
10°-20°	1178.4	2.7
20°-30°	2003.3	4.6
30°-40°	3274.8	7.5
40°-50°	5846.1	13.4
50°-60°	9856.7	22.6
60°-70°	15296.1	35.1
70°-80°	5374.4	12.3
80°-90°	303.7	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°	43539.5	100.0
0°-180°	43539.5	100.0



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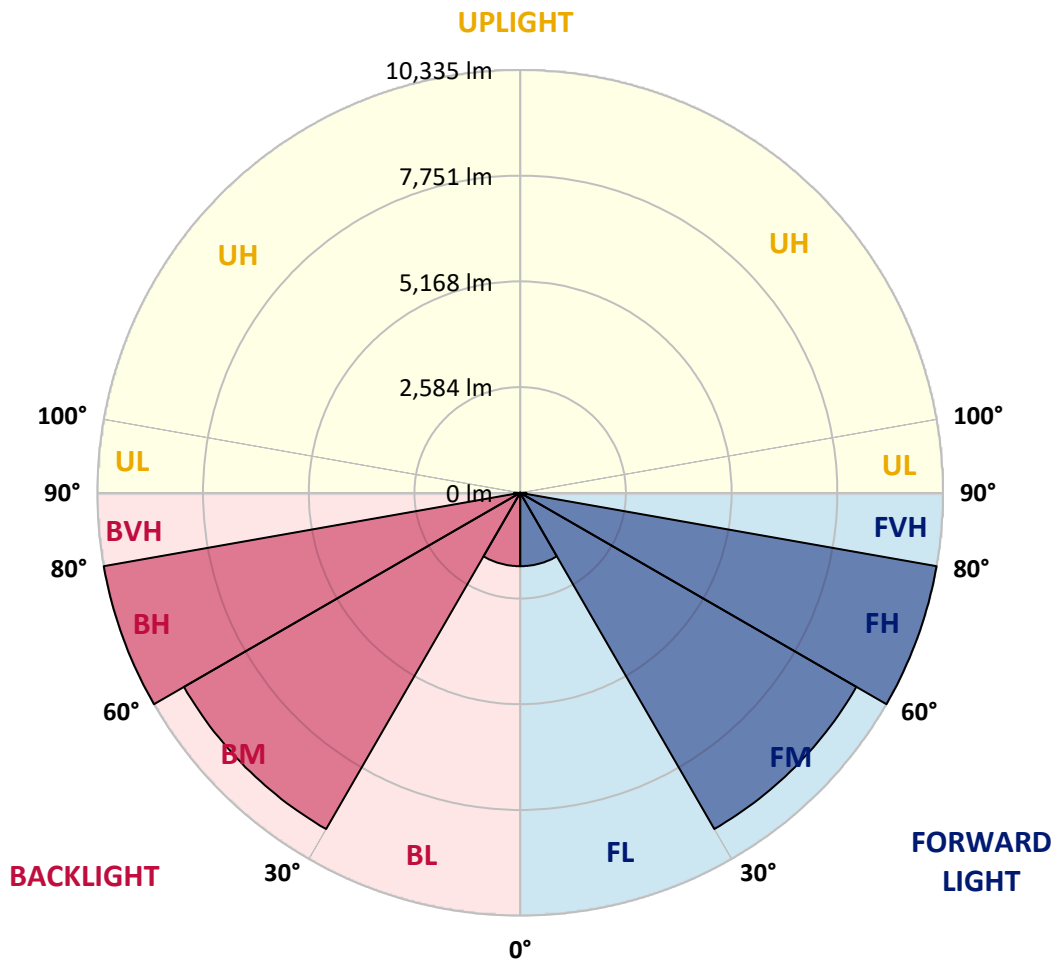
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1793.9	4.1			
FM	(30°-60°)	9488.8	21.8			
FH	(60°-80°)	10335.2	23.7			G4/12000
FVH	(80°-90°)	151.9	0.3			G2/225
BL	(0°-30°)	1793.9	4.1	B3/2500		
BM	(30°-60°)	9488.8	21.8	B5		
BH	(60°-80°)	10335.2	23.7	B5		G4/12000
BVH	(80°-90°)	151.9	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°	4339.0	4339.0	4339.0	4339.0	4339.0	4339.0	4339.0	4339.0	4339.0	4339.0	4339.0
2.5°	4322.9	4326.9	4326.9	4326.9	4324.9	4324.9	4320.8	4324.9	4322.9	4316.9	4319.0
5°	4286.8	4290.8	4290.8	4288.9	4294.8	4292.8	4286.8	4290.8	4288.9	4284.8	4286.8
7.5°	4234.8	4240.8	4240.8	4238.8	4244.9	4242.8	4238.8	4240.8	4240.8	4234.8	4234.8
10°	4176.7	4180.7	4180.7	4178.7	4188.7	4188.7	4186.7	4192.7	4194.7	4188.7	4184.8
12.5°	4122.6	4128.7	4128.7	4136.6	4146.7	4150.7	4160.7	4168.8	4176.7	4174.8	4166.7
15°	4090.6	4094.7	4102.6	4112.6	4128.7	4142.7	4158.8	4176.7	4192.7	4196.7	4184.8
17.5°	4070.6	4076.6	4088.6	4102.6	4124.7	4148.7	4172.6	4196.7	4218.8	4226.7	4212.7
20°	4064.7	4068.7	4080.6	4104.6	4134.7	4170.7	4204.7	4232.8	4262.7	4272.8	4262.7
22.5°	4076.6	4084.7	4098.6	4126.6	4166.7	4212.7	4252.8	4290.8	4328.9	4346.9	4332.9
25°	4130.6	4138.8	4156.6	4192.7	4236.8	4284.8	4330.9	4374.9	4409.1	4426.9	4417.0
27.5°	4230.7	4240.8	4262.7	4298.8	4346.9	4399.0	4449.0	4485.1	4513.1	4519.2	4507.1
30°	4380.9	4403.0	4429.1	4469.1	4525.1	4569.1	4619.3	4651.2	4685.3	4685.3	4675.3
32.5°	4615.2	4637.2	4665.3	4703.3	4747.4	4795.4	4839.4	4867.5	4903.6	4905.6	4881.5
35°	4965.7	4975.6	4999.6	5023.7	5063.7	5105.7	5143.9	5161.8	5191.8	5193.9	5171.8
37.5°	5428.1	5430.2	5446.2	5454.1	5490.3	5536.3	5572.2	5584.4	5612.3	5608.3	5586.3
40°	5966.7	5976.8	5982.7	5994.7	6032.7	6076.9	6114.9	6121.0	6151.0	6144.9	6116.9
42.5°	6589.4	6593.4	6627.4	6645.5	6681.6	6703.5	6751.7	6757.6	6793.6	6777.6	6745.6
45°	7288.2	7324.3	7356.3	7392.3	7430.4	7456.4	7494.5	7486.5	7510.5	7486.5	7468.4
47.5°	8023.0	8049.1	8121.1	8177.2	8239.3	8261.4	8315.4	8291.4	8315.4	8281.4	8275.4
50°	8832.0	8877.9	8940.1	9004.2	9070.2	9106.3	9176.4	9146.4	9178.3	9146.4	9128.2
52.5°	9628.8	9640.9	9777.1	9871.1	9963.2	10005.3	10047.4	10033.3	10035.3	10033.3	10015.4
55°	10385.8	10413.7	10550.0	10678.1	10838.2	10956.4	11028.4	11020.4	11002.4	10984.4	10954.3
57.5°	11238.6	11266.7	11422.8	11581.0	11763.2	11931.5	12077.6	12227.8	12285.8	12301.8	12235.9
60°	12391.9	12390.1	12598.2	12790.4	13050.8	13301.1	13621.4	13947.8	14322.1	14496.4	14266.2
62.5°	13565.3	13613.4	13913.7	14254.0	14790.8	15313.2	15904.0	16484.5	17077.3	17559.8	17047.2
65°	13425.1	13609.3	14055.9	14826.7	15817.8	16995.2	18268.7	19616.1	20833.5	21670.4	20731.4
67.5°	11635.1	11897.4	12352.0	13288.9	14528.4	16226.4	18364.7	21029.7	24127.1	25625.0	23768.9
70°	8433.5	8729.9	9206.4	10121.5	11348.7	12962.6	15285.2	18484.9	22585.5	24095.1	22050.9
72.5°	4196.7	4356.9	4651.2	5234.0	6162.9	7472.5	9578.7	12654.2	16282.4	17668.0	15799.7
75°	1425.6	1499.7	1549.8	1739.9	2034.3	2548.9	3596.1	5532.2	8439.5	10117.4	8319.5
77.5°	822.9	825.0	859.0	893.0	943.1	999.2	1139.3	1495.7	2586.8	3674.2	2676.9
80°	532.5	530.5	558.7	584.6	618.8	646.7	654.8	692.9	799.0	947.1	846.9
82.5°	276.3	310.4	372.3	406.5	470.5	482.5	466.5	452.4	478.5	496.6	508.6
85°	152.2	132.1	198.3	256.2	284.4	288.4	288.4	272.2	282.2	276.3	300.4
87.5°	70.1	64.0	78.2	126.1	134.1	114.2	120.2	106.1	76.0	74.1	84.1
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°	4339.0	4339.0	4339.0	4339.0	4339.0	4339.0	4339.0	4339.0
2.5°	4319.0	4320.8	4320.8	4326.9	4328.9	4332.9	4336.8	4339.0
5°	4284.8	4290.8	4286.8	4292.8	4292.8	4296.9	4296.9	4298.8
7.5°	4234.8	4240.8	4240.8	4240.8	4238.8	4244.9	4244.9	4244.9
10°	4182.7	4186.7	4184.8	4180.7	4176.7	4182.7	4180.7	4178.7
12.5°	4166.7	4156.6	4148.7	4144.7	4136.6	4138.8	4132.7	4132.7
15°	4176.7	4158.8	4144.7	4138.8	4130.6	4126.6	4122.6	4124.7
17.5°	4202.7	4180.7	4162.7	4152.7	4142.7	4136.6	4128.7	4130.6
20°	4248.9	4222.8	4196.7	4176.7	4158.8	4148.7	4142.7	4140.6
22.5°	4316.9	4278.8	4240.8	4210.7	4186.7	4172.6	4166.7	4162.7
25°	4395.0	4352.8	4308.9	4274.9	4250.8	4232.8	4220.7	4220.7
27.5°	4493.1	4459.0	4419.0	4379.0	4356.9	4339.0	4330.9	4326.9
30°	4657.3	4625.3	4593.2	4555.1	4527.1	4509.1	4495.1	4483.0
32.5°	4867.5	4841.4	4815.5	4787.3	4761.3	4737.3	4715.4	4705.3
35°	5163.8	5143.9	5125.8	5093.7	5083.8	5069.8	5057.6	5047.7
37.5°	5572.2	5564.3	5564.3	5530.2	5522.2	5516.2	5504.3	5506.3
40°	6109.0	6116.9	6106.9	6094.9	6088.9	6072.8	6072.8	6086.8
42.5°	6743.5	6749.7	6771.7	6751.7	6773.6	6753.5	6741.6	6751.7
45°	7480.5	7502.5	7546.5	7526.4	7540.6	7506.4	7464.5	7466.4
47.5°	8307.3	8327.4	8345.4	8331.4	8333.3	8277.3	8221.3	8207.3
50°	9166.3	9174.4	9184.5	9164.4	9168.3	9106.3	9042.2	9044.1
52.5°	10015.4	10053.3	10093.4	10039.3	10027.3	9957.3	9867.2	9831.1
55°	10986.5	11040.4	10994.4	10900.4	10806.3	10712.1	10593.9	10573.9
57.5°	12183.7	12091.6	11947.5	11769.2	11639.1	11507.0	11386.8	11336.8
60°	13849.6	13503.2	13243.0	12978.6	12812.4	12650.3	12492.1	12468.0
62.5°	16204.3	15605.6	15087.0	14540.4	14093.9	13745.5	13467.2	13389.1
65°	19155.5	17740.0	16512.6	15367.3	14372.3	13621.4	13148.9	12940.7
67.5°	20425.0	17629.9	15525.4	13899.7	12598.2	11689.1	11178.6	10924.3
70°	17948.2	14620.5	12331.9	10704.1	9518.7	8549.7	8087.1	7814.9
72.5°	12347.9	9300.5	7354.3	6002.7	5055.8	4244.9	3924.4	3900.4
75°	5544.2	3672.1	2530.9	1950.2	1641.8	1427.5	1361.6	1311.4
77.5°	1551.7	1147.2	1023.2	957.1	893.0	819.0	790.9	796.8
80°	754.8	712.9	684.8	642.7	584.6	522.5	494.5	506.6
82.5°	500.5	494.5	512.6	482.5	398.5	338.4	284.4	260.2
85°	304.3	308.4	314.3	316.4	268.4	188.3	128.2	144.2
87.5°	120.2	138.2	150.1	156.1	146.2	90.1	72.0	74.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)