

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: P193366

Luminaire Tested: **GLEON-AF-08-LED-E1-5MQ-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193366
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-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 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: 44860 lumens
Efficiency: N/A
Efficacy: 87.8 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

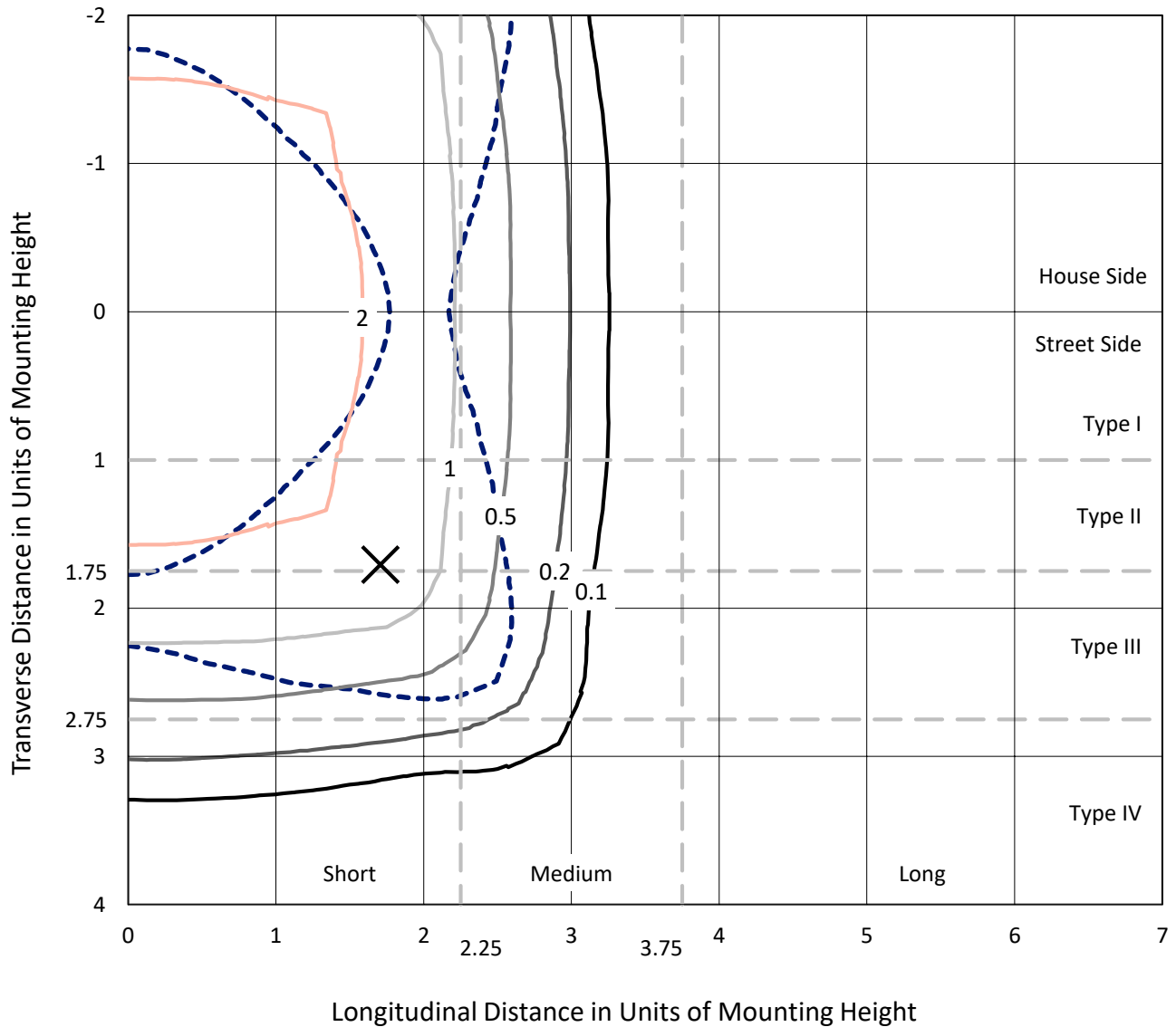
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

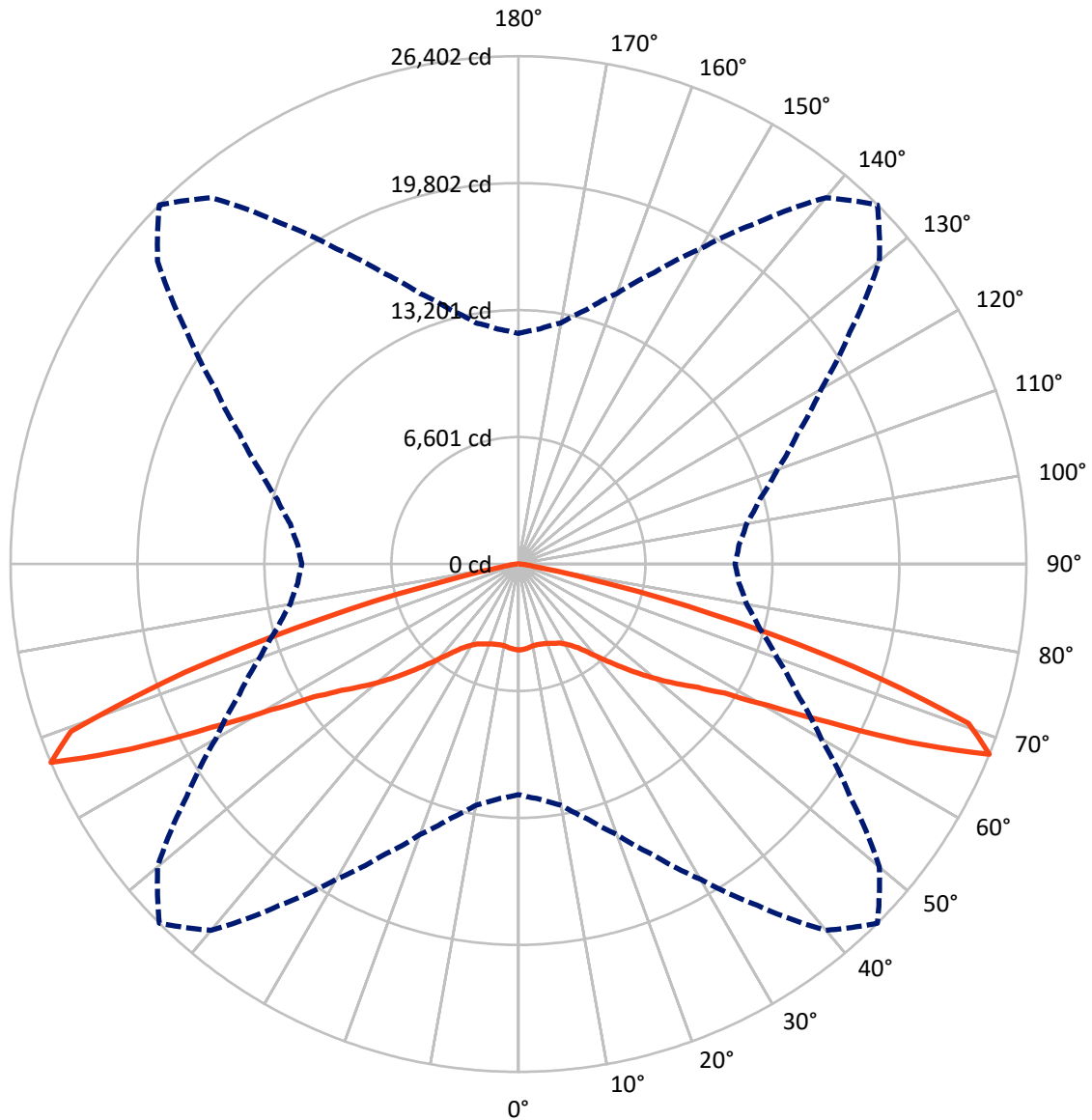


Based on 30 foot mounting height. Maximum calculated value = 5 fc
 Type V - Short - Full Cutoff

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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	22430.0	0.0	22430.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22430.0	0.0	22430.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	44860.0	0.0	44860.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.4	0.9
10°-20°	1214.2	2.7
20°-30°	2064.1	4.6
30°-40°	3374.1	7.5
40°-50°	6023.4	13.4
50°-60°	10155.6	22.6
60°-70°	15760.0	35.1
70°-80°	5537.4	12.3
80°-90°	312.9	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°	44860.0	100.0
0°-180°	44860.0	100.0



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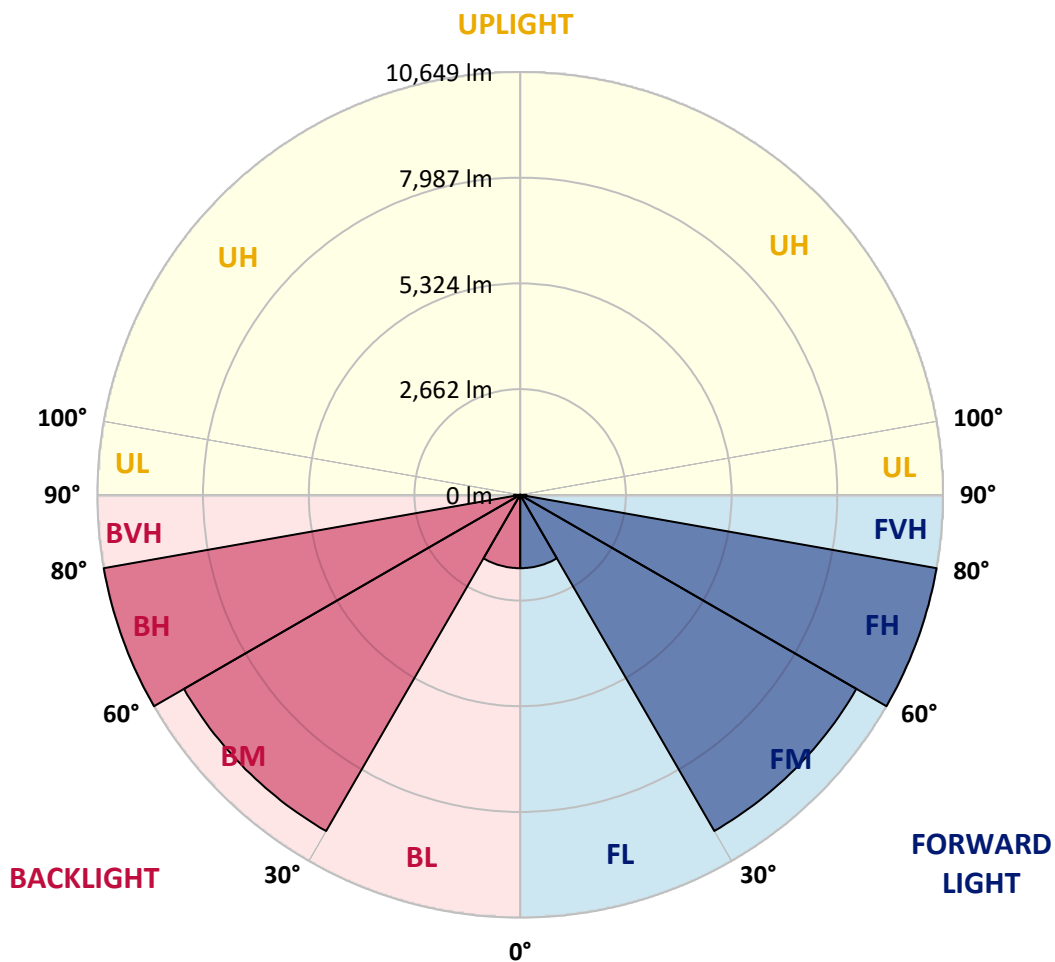
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1848.3	4.1			
FM	(30°-60°)	9776.5	21.8			
FH	(60°-80°)	10648.7	23.7			G4/12000
FVH	(80°-90°)	156.5	0.3			G2/225
BL	(0°-30°)	1848.3	4.1	B3/2500		
BM	(30°-60°)	9776.5	21.8	B5		
BH	(60°-80°)	10648.7	23.7	B5		G4/12000
BVH	(80°-90°)	156.5	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°	4470.5	4470.5	4470.5	4470.5	4470.5	4470.5	4470.5	4470.5	4470.5	4470.5	4470.5
2.5°	4454.0	4458.1	4458.1	4458.1	4456.0	4456.0	4451.9	4456.0	4454.0	4447.8	4449.9
5°	4416.9	4421.0	4421.0	4418.9	4425.1	4423.0	4416.9	4421.0	4418.9	4414.8	4416.9
7.5°	4363.2	4369.4	4369.4	4367.3	4373.5	4371.5	4367.3	4369.4	4369.4	4363.2	4363.2
10°	4303.4	4307.5	4307.5	4305.4	4315.8	4315.8	4313.7	4319.9	4322.0	4315.8	4311.6
12.5°	4247.7	4253.9	4253.9	4262.1	4272.4	4276.6	4286.9	4295.1	4303.4	4301.3	4293.1
15°	4214.7	4218.8	4227.1	4237.4	4253.9	4268.3	4284.8	4303.4	4319.9	4324.0	4311.6
17.5°	4194.0	4200.2	4212.6	4227.1	4249.7	4274.5	4299.3	4324.0	4346.7	4355.0	4340.5
20°	4187.9	4192.0	4204.4	4229.1	4260.1	4297.2	4332.3	4361.2	4392.1	4402.4	4392.1
22.5°	4200.2	4208.5	4222.9	4251.8	4293.1	4340.5	4381.8	4421.0	4460.2	4478.7	4464.3
25°	4255.9	4264.2	4282.8	4319.9	4365.3	4414.8	4462.2	4507.6	4542.7	4561.3	4550.9
27.5°	4359.1	4369.4	4392.1	4429.2	4478.7	4532.4	4584.0	4621.1	4650.0	4656.2	4643.8
30°	4513.8	4536.5	4563.3	4604.6	4662.3	4707.7	4759.3	4792.3	4827.4	4827.4	4817.1
32.5°	4755.2	4777.9	4806.8	4846.0	4891.3	4940.8	4986.2	5015.1	5052.2	5054.3	5029.6
35°	5116.2	5126.5	5151.3	5176.0	5217.3	5260.6	5299.8	5318.4	5349.3	5351.4	5328.7
37.5°	5592.8	5594.8	5611.3	5619.6	5656.7	5704.2	5741.3	5753.7	5782.5	5778.4	5755.7
40°	6147.7	6158.0	6164.2	6176.6	6215.8	6261.2	6300.4	6306.5	6337.5	6331.3	6302.4
42.5°	6789.3	6793.4	6828.5	6847.0	6884.2	6906.9	6956.4	6962.6	6999.7	6983.2	6950.2
45°	7509.3	7546.4	7579.4	7616.5	7655.7	7682.6	7721.8	7713.5	7738.3	7713.5	7694.9
47.5°	8266.4	8293.2	8367.5	8425.2	8489.2	8511.9	8567.6	8542.8	8567.6	8532.5	8526.3
50°	9099.8	9147.3	9211.2	9277.2	9345.3	9382.5	9454.7	9423.7	9456.7	9423.7	9405.1
52.5°	9920.9	9933.3	10073.6	10170.5	10265.4	10308.7	10352.1	10337.6	10339.7	10337.6	10319.1
55°	10700.7	10729.6	10869.9	11001.9	11166.9	11288.7	11362.9	11354.7	11336.1	11317.5	11286.6
57.5°	11579.5	11608.4	11769.3	11932.3	12120.0	12293.3	12443.9	12598.6	12658.5	12675.0	12606.9
60°	12767.8	12765.8	12980.3	13178.3	13446.5	13704.4	14034.5	14370.8	14756.5	14936.0	14698.8
62.5°	13976.7	14026.2	14335.7	14686.4	15239.3	15777.7	16386.3	16984.6	17595.2	18092.4	17564.3
65°	13832.3	14022.1	14482.2	15276.4	16297.6	17510.6	18822.7	20211.1	21465.4	22327.7	21360.1
67.5°	11988.0	12258.3	12726.6	13692.0	14969.0	16718.4	18921.7	21667.5	24859.0	26402.1	24489.7
70°	8689.3	8994.6	9485.6	10428.4	11693.0	13355.8	15748.8	19045.5	23270.5	24826.0	22719.7
72.5°	4324.0	4489.1	4792.3	5392.6	6349.9	7699.1	9869.3	13038.1	16776.2	18203.8	16279.0
75°	1468.8	1545.2	1596.8	1792.7	2096.0	2626.2	3705.1	5700.0	8695.5	10424.3	8571.7
77.5°	847.9	849.9	885.0	920.1	971.7	1029.4	1173.8	1541.0	2665.4	3785.6	2758.2
80°	548.8	546.7	575.6	602.4	637.5	666.3	674.6	713.8	823.1	975.8	872.6
82.5°	284.7	319.8	383.7	418.8	484.8	497.2	480.7	466.2	493.1	511.6	524.0
85°	156.8	136.2	204.2	264.1	292.9	297.1	297.1	280.6	290.9	284.7	309.4
87.5°	72.2	66.0	80.5	130.0	138.2	117.6	123.8	109.3	78.4	76.3	86.6
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°	4470.5	4470.5	4470.5	4470.5	4470.5	4470.5	4470.5	4470.5
2.5°	4449.9	4451.9	4451.9	4458.1	4460.2	4464.3	4468.4	4470.5
5°	4414.8	4421.0	4416.9	4423.0	4423.0	4427.2	4427.2	4429.2
7.5°	4363.2	4369.4	4369.4	4369.4	4367.3	4373.5	4373.5	4373.5
10°	4309.6	4313.7	4311.6	4307.5	4303.4	4309.6	4307.5	4305.4
12.5°	4293.1	4282.8	4274.5	4270.4	4262.1	4264.2	4258.0	4258.0
15°	4303.4	4284.8	4270.4	4264.2	4255.9	4251.8	4247.7	4249.7
17.5°	4330.2	4307.5	4288.9	4278.6	4268.3	4262.1	4253.9	4255.9
20°	4377.7	4350.8	4324.0	4303.4	4284.8	4274.5	4268.3	4266.3
22.5°	4447.8	4408.6	4369.4	4338.5	4313.7	4299.3	4293.1	4288.9
25°	4528.3	4484.9	4439.5	4404.5	4379.7	4361.2	4348.8	4348.8
27.5°	4629.3	4594.3	4553.0	4511.7	4489.1	4470.5	4462.2	4458.1
30°	4798.5	4765.5	4732.5	4693.3	4664.4	4645.8	4631.4	4619.0
32.5°	5015.1	4988.3	4961.5	4932.6	4905.8	4881.0	4858.3	4848.0
35°	5320.4	5299.8	5281.2	5248.2	5237.9	5223.5	5211.1	5200.8
37.5°	5741.3	5733.0	5733.0	5698.0	5689.7	5683.5	5671.1	5673.2
40°	6294.2	6302.4	6292.1	6279.7	6273.5	6257.0	6257.0	6271.5
42.5°	6948.1	6954.3	6977.0	6956.4	6979.1	6958.4	6946.1	6956.4
45°	7707.3	7730.0	7775.4	7754.8	7769.2	7734.1	7690.8	7692.9
47.5°	8559.3	8580.0	8598.5	8584.1	8586.1	8528.4	8470.6	8456.2
50°	9444.3	9452.6	9462.9	9442.3	9446.4	9382.5	9316.4	9318.5
52.5°	10319.1	10358.2	10399.5	10343.8	10331.4	10259.2	10166.4	10129.3
55°	11319.6	11375.3	11327.8	11230.9	11133.9	11037.0	10915.3	10894.6
57.5°	12553.3	12458.4	12309.8	12126.2	11992.1	11856.0	11732.2	11680.6
60°	14269.7	13912.8	13644.6	13372.3	13201.0	13033.9	12871.0	12846.2
62.5°	16695.7	16078.9	15544.6	14981.4	14521.4	14162.4	13875.6	13795.2
65°	19736.6	18278.0	17013.4	15833.4	14808.1	14034.5	13547.6	13333.1
67.5°	21044.5	18164.6	15996.4	14321.2	12980.3	12043.7	11517.6	11255.6
70°	18492.6	15063.9	12705.9	11028.7	9807.4	8808.9	8332.4	8051.8
72.5°	12722.4	9582.6	7577.3	6184.8	5209.0	4373.5	4043.5	4018.7
75°	5712.4	3783.5	2607.6	2009.3	1691.6	1470.9	1402.8	1351.3
77.5°	1598.8	1182.1	1054.2	986.1	920.1	843.8	814.9	821.1
80°	777.7	734.4	705.5	662.2	602.4	538.4	509.6	521.9
82.5°	515.7	509.6	528.1	497.2	410.5	348.6	292.9	268.2
85°	313.6	317.7	323.9	326.0	276.4	193.9	132.0	148.5
87.5°	123.8	142.3	154.7	160.9	150.6	92.8	74.3	76.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)