

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: P269527

Luminaire Tested: **GLEON-AF-08-LED-E1-5NQ-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
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-E1-5NQ-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34541.3 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 334
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

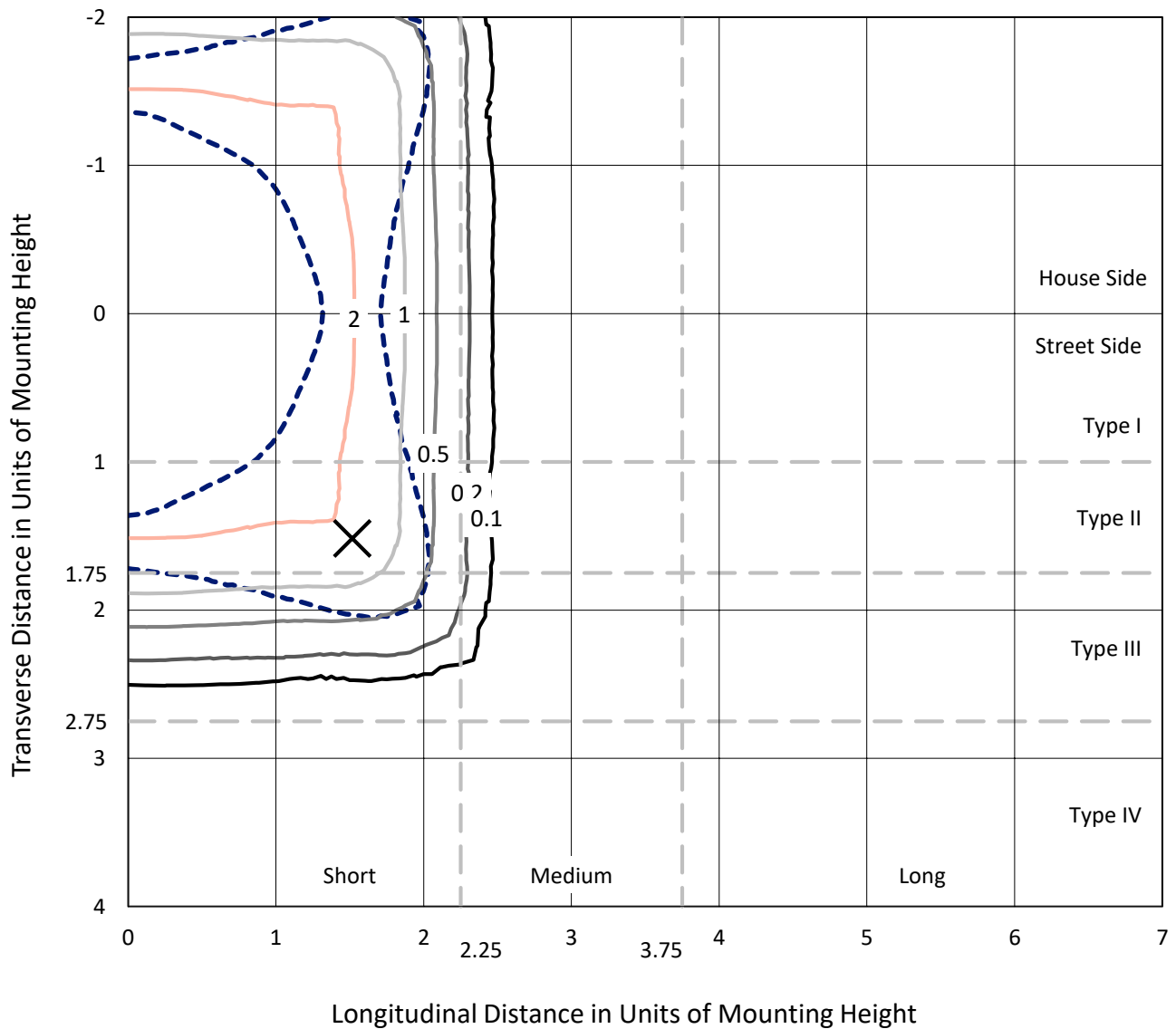


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

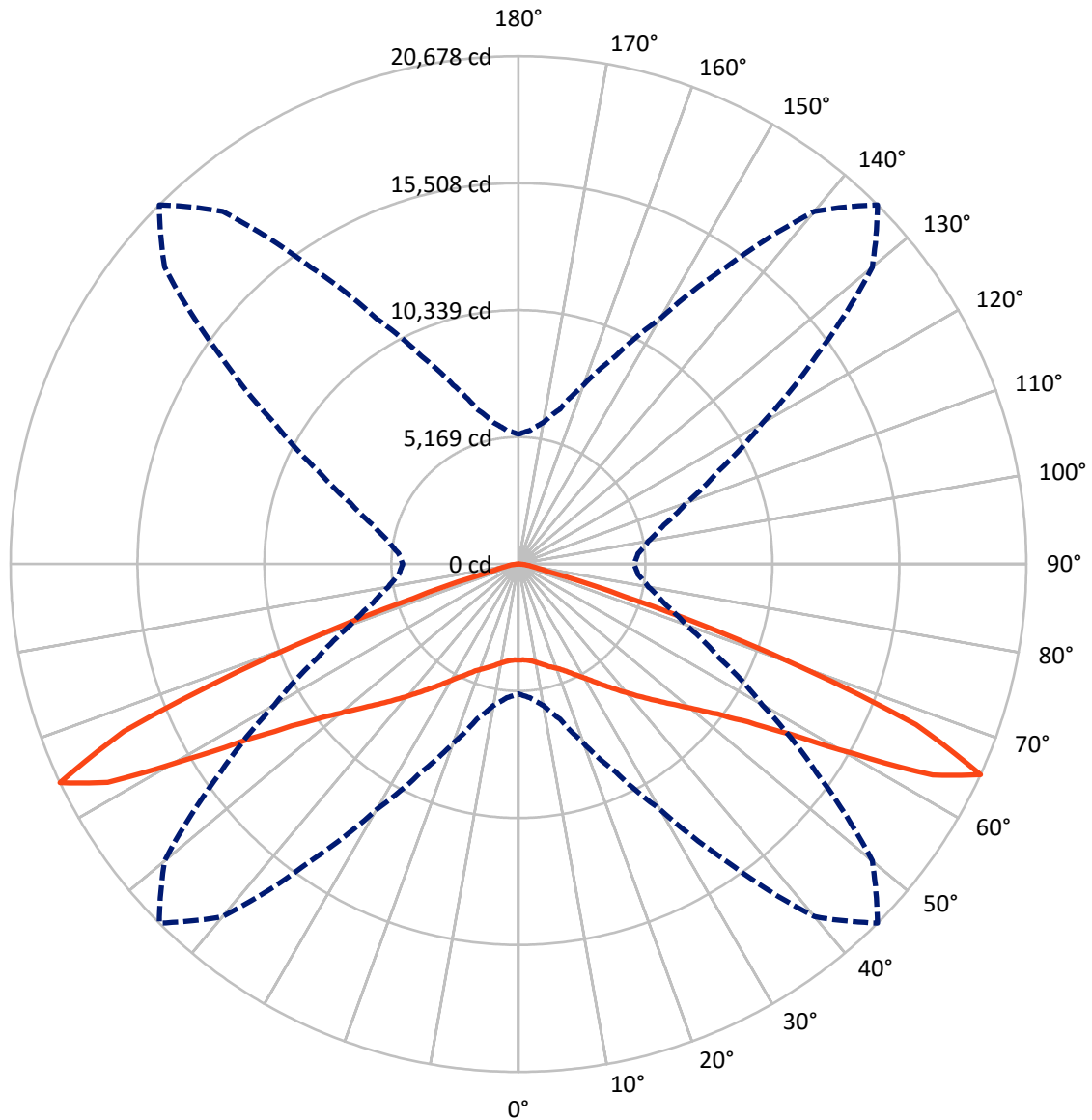


Based on 30 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17270.6	0.0	17270.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17270.6	0.0	17270.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	34541.3	0.0	34541.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.9	1.1
10°-20°	1221.7	3.5
20°-30°	2284.4	6.6
30°-40°	3863.6	11.2
40°-50°	6317.4	18.3
50°-60°	10045.7	29.1
60°-70°	9080.6	26.3
70°-80°	1149.2	3.3
80°-90°	197.7	0.6
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°	34541.3	100.0
0°-180°	34541.3	100.0



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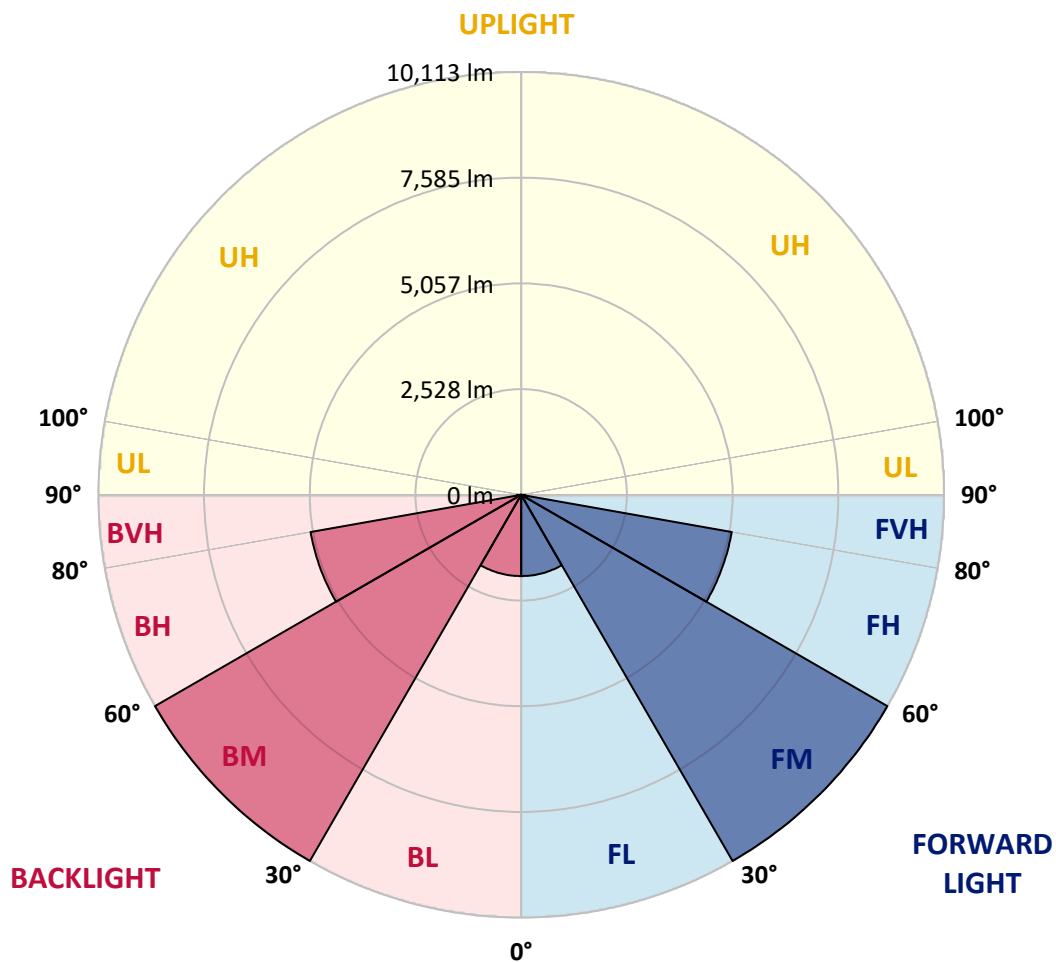
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1943.6	5.6			
FM	(30°-60°)	10113.3	29.3			
FH	(60°-80°)	5114.9	14.8			G3/7500
FVH	(80°-90°)	98.8	0.3			G1/100
BL	(0°-30°)	1943.6	5.6	B3/2500		
BM	(30°-60°)	10113.3	29.3	B5		
BH	(60°-80°)	5114.9	14.8	B5		G3/7500
BVH	(80°-90°)	98.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3908.3	3908.3	3908.3	3908.3	3908.3	3908.3	3908.3	3908.3	3908.3	3908.3	3908.3
2.5°	3911.6	3914.9	3918.0	3914.9	3918.0	3913.2	3910.1	3914.9	3910.1	3905.1	3908.3
5°	3945.5	3947.2	3947.2	3942.3	3947.2	3944.0	3939.1	3945.5	3940.8	3935.8	3939.1
7.5°	4002.2	4008.6	4003.8	3999.0	4002.2	3999.0	3995.8	3997.4	3995.8	3990.9	3992.4
10°	4078.2	4083.1	4079.8	4078.2	4081.4	4079.8	4076.6	4075.0	4076.6	4071.7	4071.7
12.5°	4170.4	4168.9	4167.1	4168.9	4173.6	4173.6	4172.1	4173.6	4176.8	4178.6	4175.3
15°	4261.0	4264.3	4264.3	4264.3	4274.0	4282.0	4286.9	4290.1	4296.7	4298.2	4291.7
17.5°	4374.2	4374.2	4372.6	4374.2	4384.0	4396.9	4401.8	4408.3	4414.7	4419.5	4411.4
20°	4500.5	4503.7	4503.7	4506.8	4519.8	4534.5	4534.5	4537.7	4534.5	4537.7	4532.8
22.5°	4654.1	4663.8	4663.8	4665.4	4678.5	4696.2	4691.3	4696.2	4688.2	4694.5	4688.2
25°	4854.7	4869.4	4866.1	4866.1	4875.7	4887.0	4888.7	4898.4	4896.8	4904.8	4900.1
27.5°	5081.3	5103.8	5110.3	5108.8	5115.2	5126.4	5129.7	5141.1	5134.6	5141.1	5137.9
30°	5353.0	5362.7	5375.5	5380.5	5388.6	5399.9	5399.9	5401.5	5393.5	5403.1	5407.9
32.5°	5634.4	5652.2	5665.3	5694.3	5708.9	5717.0	5715.3	5718.6	5710.4	5723.5	5733.2
35°	6006.5	6019.5	6040.6	6063.1	6082.6	6080.9	6076.0	6077.8	6077.8	6089.0	6098.8
37.5°	6454.6	6457.8	6485.4	6517.7	6527.4	6517.7	6488.5	6482.1	6467.5	6482.1	6498.2
40°	6928.5	6939.9	6994.9	7015.9	7020.9	7003.0	6961.0	6936.7	6904.4	6922.1	6944.7
42.5°	7425.2	7447.8	7498.1	7535.3	7551.4	7540.2	7481.9	7444.7	7402.7	7412.4	7434.9
45°	7975.2	8002.8	8074.0	8109.4	8140.4	8122.5	8065.8	8009.3	7943.0	7947.8	7983.3
47.5°	8590.0	8617.5	8709.6	8769.6	8785.8	8782.5	8719.4	8641.8	8551.1	8547.9	8578.6
50°	9279.1	9306.6	9421.6	9513.7	9560.7	9555.8	9481.3	9371.4	9261.3	9263.0	9301.8
52.5°	9952.1	9986.1	10105.8	10264.4	10356.5	10422.9	10377.6	10274.0	10139.8	10143.0	10178.5
55°	10583.0	10639.6	10777.1	10992.3	11163.7	11349.7	11403.2	11399.9	11319.1	11341.7	11377.4
57.5°	10888.7	10972.8	11184.7	11524.4	11873.9	12252.4	12572.8	12812.2	12914.2	13067.7	13032.3
60°	10309.6	10443.9	10756.0	11255.9	11946.6	12736.2	13582.3	14408.9	15114.2	15646.4	15340.6
62.5°	8441.2	8615.9	8994.4	9635.0	10680.0	11943.4	13562.8	15517.1	17645.9	18930.3	18013.2
65°	5281.8	5463.0	5848.0	6533.9	7756.9	9327.7	11524.4	14763.1	18741.1	20677.5	18810.6
67.5°	2059.4	2158.0	2366.8	2805.0	3724.0	5121.6	7326.5	11002.0	15759.7	17456.7	15466.8
70°	1032.2	1041.9	1080.7	1161.5	1358.9	1764.9	2685.5	5100.5	9038.0	10916.3	8712.9
72.5°	745.8	747.4	766.9	802.4	865.4	956.1	1130.7	1561.1	2939.3	4492.3	2754.9
75°	571.1	577.5	588.8	608.2	642.2	687.6	750.7	899.5	1114.5	1292.5	1087.0
77.5°	440.0	452.9	461.0	478.8	499.8	530.5	548.3	605.0	703.7	740.9	729.6
80°	334.9	346.1	364.1	378.5	393.1	407.7	401.3	427.1	478.8	509.6	493.3
82.5°	213.5	226.6	278.3	291.2	297.7	307.4	296.0	297.7	320.2	339.6	320.2
85°	137.5	145.5	176.3	192.4	194.2	200.6	195.7	184.4	184.4	168.3	189.3
87.5°	63.2	64.7	79.3	93.9	97.0	87.3	85.8	82.6	66.4	63.2	67.9
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°	3908.3	3908.3	3908.3	3908.3	3908.3	3908.3	3908.3	3908.3
2.5°	3906.8	3910.1	3911.6	3916.4	3918.0	3918.0	3919.7	3922.9
5°	3937.5	3942.3	3944.0	3950.4	3952.1	3950.4	3953.7	3955.2
7.5°	3992.4	4000.6	4003.8	4010.3	4005.5	4011.9	4013.4	4013.4
10°	4073.4	4081.4	4083.1	4089.5	4086.3	4089.5	4089.5	4086.3
12.5°	4180.2	4181.8	4176.8	4181.8	4175.3	4178.6	4173.6	4170.4
15°	4298.2	4293.4	4282.0	4282.0	4272.3	4274.0	4272.3	4270.7
17.5°	4413.2	4403.4	4395.2	4392.1	4384.0	4382.3	4377.5	4377.5
20°	4539.2	4534.5	4529.6	4523.1	4515.1	4506.8	4505.3	4508.6
22.5°	4691.3	4689.7	4689.7	4686.5	4675.1	4667.1	4662.3	4662.3
25°	4895.1	4880.6	4880.6	4879.0	4874.2	4869.4	4859.7	4864.4
27.5°	5124.9	5116.7	5123.3	5121.6	5116.7	5116.7	5110.3	5110.3
30°	5407.9	5404.7	5414.4	5406.4	5390.2	5388.6	5382.0	5374.0
32.5°	5734.8	5731.5	5746.1	5736.3	5710.4	5696.0	5682.9	5676.5
35°	6098.8	6100.3	6118.1	6111.7	6082.6	6072.8	6050.3	6047.0
37.5°	6496.7	6522.6	6553.3	6559.8	6535.4	6529.1	6504.7	6491.8
40°	6964.2	6998.2	7045.0	7056.4	7030.6	7025.6	6991.7	6973.9
42.5°	7462.5	7520.7	7578.9	7588.6	7562.7	7536.9	7504.5	7491.5
45°	8018.9	8088.5	8164.5	8184.0	8145.1	8114.4	8072.3	8072.3
47.5°	8643.4	8730.7	8816.4	8869.9	8834.2	8802.0	8751.7	8719.4
50°	9381.0	9500.7	9612.4	9667.4	9610.7	9549.3	9461.9	9432.8
52.5°	10306.3	10435.8	10532.8	10503.7	10416.3	10330.7	10235.2	10196.3
55°	11487.3	11531.0	11531.0	11421.1	11246.2	11102.3	10951.9	10901.7
57.5°	12964.2	12795.9	12537.1	12208.8	11796.3	11437.1	11194.5	11079.6
60°	14700.0	13891.2	12977.2	12079.4	11341.7	10733.5	10372.6	10207.7
62.5°	15856.7	13740.7	11909.5	10468.2	9407.0	8674.2	8175.8	7981.7
65°	14819.8	11459.8	9007.3	7282.9	6126.3	5380.5	4887.0	4706.0
67.5°	10854.8	7181.1	4796.5	3437.6	2518.8	2009.1	1807.0	1722.9
70°	4872.4	2528.5	1549.8	1210.0	1043.4	957.7	920.5	907.6
72.5°	1468.9	1062.9	896.1	808.8	742.4	700.5	669.7	666.5
75°	886.4	737.7	655.1	603.4	561.4	527.3	511.1	506.4
77.5°	619.7	541.9	503.1	466.0	433.5	407.7	393.1	381.8
80°	435.1	397.9	380.2	359.1	338.1	313.9	292.8	283.1
82.5°	291.2	283.1	283.1	270.2	252.3	229.6	187.7	178.0
85°	187.7	185.9	189.3	184.4	171.4	147.2	121.4	114.9
87.5°	87.3	89.0	98.6	97.0	93.9	77.7	61.4	58.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)