

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: P193404

Luminaire Tested: **GLEON-AF-06-LED-E1-5NQ-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193404
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-06-LED-E1-5NQ-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32873 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G2

Input Watts (W): 382
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

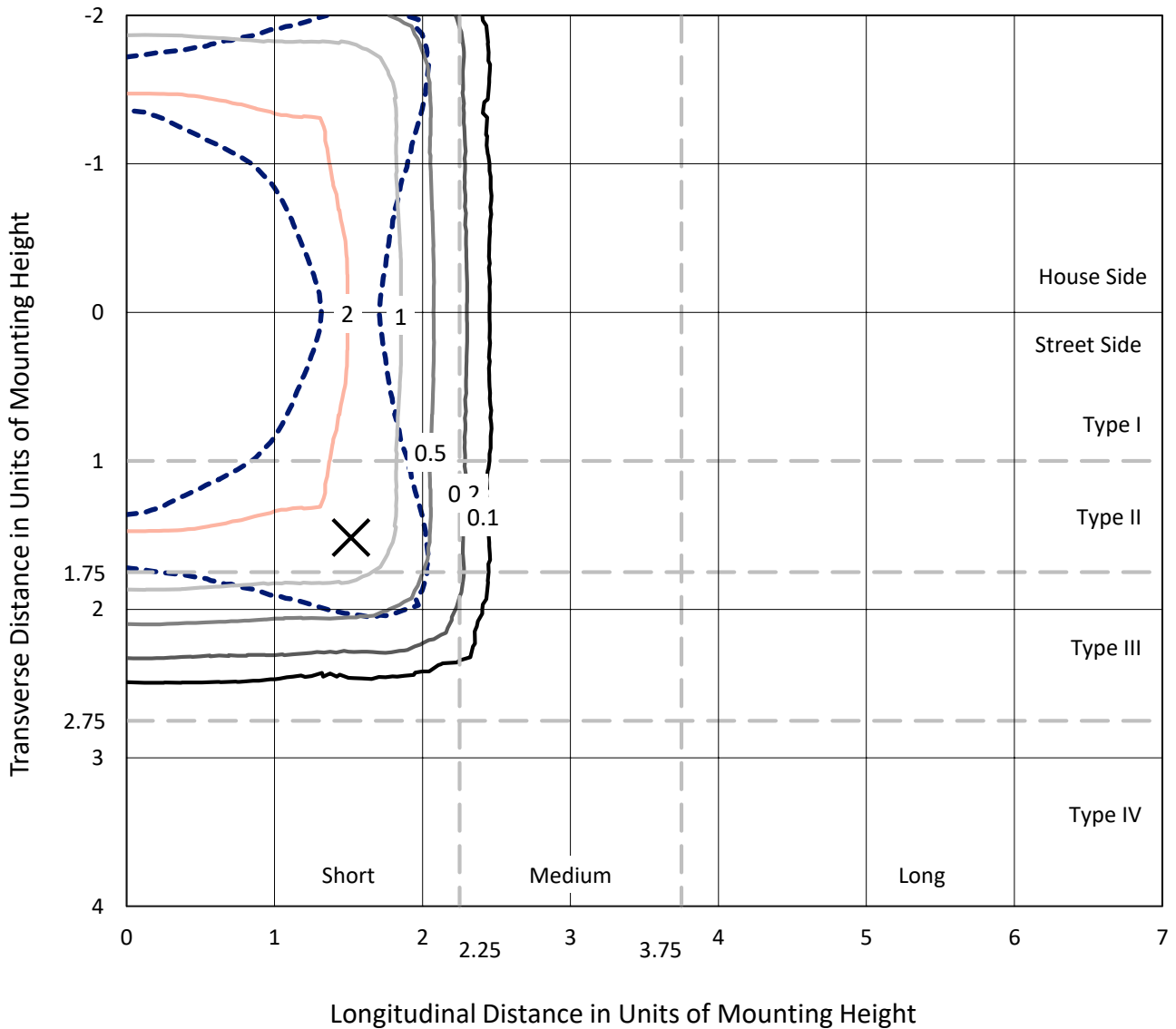


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

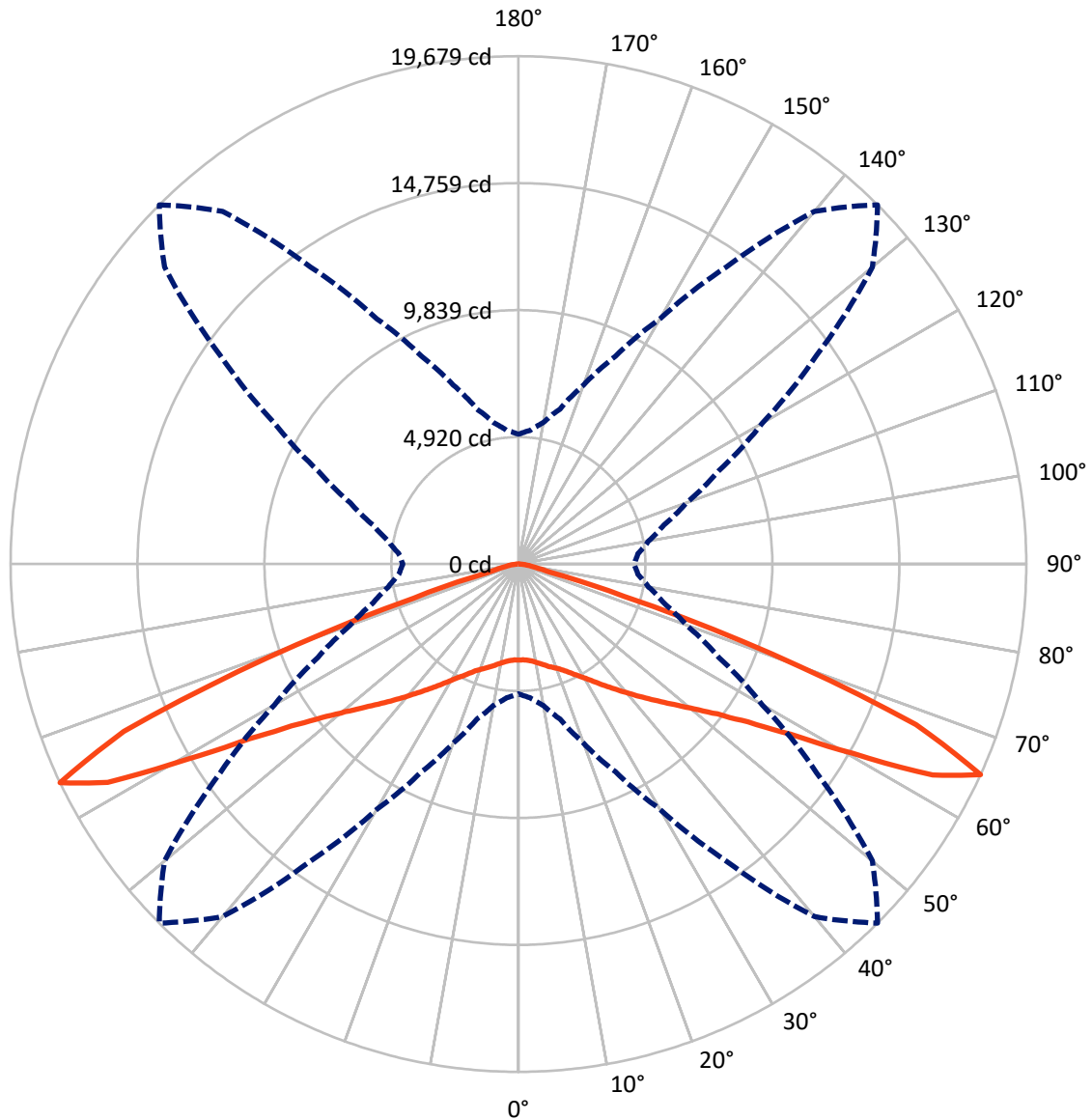


Based on 30 foot mounting height. Maximum calculated value = 4.1 fc
 Type V - Short - Full Cutoff

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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	16436.5	0.0	16436.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16436.5	0.0	16436.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	32873.0	0.0	32873.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.5	1.1
10°-20°	1162.7	3.5
20°-30°	2174.1	6.6
30°-40°	3677.0	11.2
40°-50°	6012.3	18.3
50°-60°	9560.5	29.1
60°-70°	8642.0	26.3
70°-80°	1093.7	3.3
80°-90°	188.1	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°	32873.0	100.0
0°-180°	32873.0	100.0



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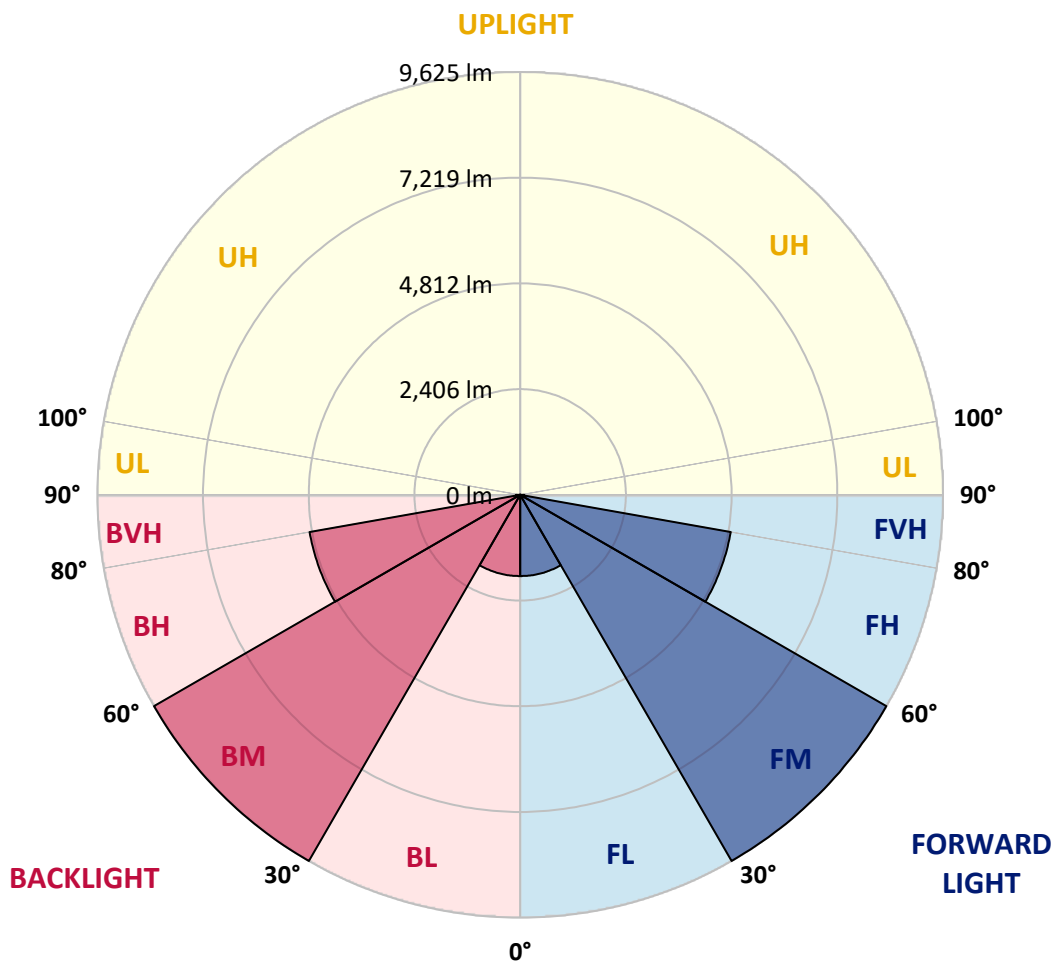
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1849.7	5.6			
FM	(30°-60°)	9624.9	29.3			
FH	(60°-80°)	4867.9	14.8			G2/5000
FVH	(80°-90°)	94.1	0.3			G1/100
BL	(0°-30°)	1849.7	5.6	B3/2500		
BM	(30°-60°)	9624.9	29.3	B5		
BH	(60°-80°)	4867.9	14.8	B4/5000		G2/5000
BVH	(80°-90°)	94.1	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3719.6	3719.6	3719.6	3719.6	3719.6	3719.6	3719.6	3719.6	3719.6	3719.6	3719.6
2.5°	3722.7	3725.8	3728.8	3725.8	3728.8	3724.2	3721.1	3725.8	3721.1	3716.5	3719.6
5°	3755.0	3756.5	3756.5	3751.9	3756.5	3753.5	3748.8	3755.0	3750.4	3745.8	3748.8
7.5°	3808.9	3815.1	3810.4	3805.8	3808.9	3805.8	3802.7	3804.3	3802.7	3798.1	3799.7
10°	3881.3	3885.9	3882.8	3881.3	3884.3	3882.8	3879.7	3878.2	3879.7	3875.1	3875.1
12.5°	3969.0	3967.5	3965.9	3967.5	3972.1	3972.1	3970.5	3972.1	3975.2	3976.7	3973.6
15°	4055.2	4058.3	4058.3	4058.3	4067.5	4075.2	4079.9	4082.9	4089.1	4090.6	4084.5
17.5°	4163.0	4163.0	4161.5	4163.0	4172.2	4184.5	4189.2	4195.3	4201.5	4206.1	4198.4
20°	4283.1	4286.2	4286.2	4289.2	4301.6	4315.4	4315.4	4318.5	4315.4	4318.5	4313.9
22.5°	4429.3	4438.6	4438.6	4440.1	4452.4	4469.4	4464.7	4469.4	4461.7	4467.8	4461.7
25°	4620.2	4634.1	4631.0	4631.0	4640.3	4651.0	4652.6	4661.8	4660.3	4668.0	4663.4
27.5°	4835.8	4857.3	4863.5	4862.0	4868.1	4878.9	4882.0	4892.7	4886.6	4892.7	4889.7
30°	5094.4	5103.7	5116.0	5120.6	5128.3	5139.1	5139.1	5140.6	5132.9	5142.2	5146.8
32.5°	5362.3	5379.3	5391.6	5419.3	5433.1	5440.8	5439.3	5442.4	5434.7	5447.0	5456.2
35°	5716.4	5728.7	5748.7	5770.3	5788.8	5787.2	5782.6	5784.2	5784.2	5794.9	5804.2
37.5°	6142.9	6146.0	6172.1	6202.9	6212.2	6202.9	6175.2	6169.1	6155.2	6169.1	6184.4
40°	6594.0	6604.7	6657.1	6677.1	6681.7	6664.8	6624.8	6601.7	6570.9	6587.8	6609.4
42.5°	7066.6	7088.2	7135.9	7171.3	7186.7	7175.9	7120.5	7085.1	7045.1	7054.3	7075.9
45°	7590.1	7616.2	7684.0	7717.9	7747.1	7730.2	7676.3	7622.4	7559.3	7563.9	7597.8
47.5°	8175.1	8201.3	8289.0	8346.0	8361.4	8358.3	8298.3	8224.4	8138.2	8135.1	8164.3
50°	8831.0	8857.1	8966.4	9054.2	9098.9	9094.2	9023.4	8918.7	8814.0	8815.6	8852.5
52.5°	9471.4	9503.8	9617.7	9768.6	9856.3	9919.4	9876.3	9777.8	9650.0	9653.1	9687.0
55°	10071.9	10125.7	10256.6	10461.4	10624.6	10801.6	10852.4	10849.3	10772.4	10793.9	10827.8
57.5°	10362.8	10442.9	10644.6	10967.9	11300.4	11660.7	11965.5	12193.4	12290.4	12436.6	12402.8
60°	9811.7	9939.5	10236.6	10712.3	11369.7	12121.0	12926.2	13712.9	14384.2	14890.7	14599.7
62.5°	8033.5	8199.7	8560.0	9169.7	10164.2	11366.6	12907.7	14767.5	16793.6	18016.0	17143.1
65°	5026.7	5199.1	5565.5	6218.3	7382.2	8877.2	10967.9	14050.1	17835.9	19678.8	17902.1
67.5°	1959.9	2053.8	2252.4	2669.6	3544.1	4874.3	6972.7	10470.6	14998.5	16613.5	14719.8
70°	982.2	991.5	1028.4	1105.4	1293.2	1679.7	2555.7	4854.3	8601.6	10389.0	8292.1
72.5°	709.7	711.3	729.8	763.6	823.7	909.9	1076.2	1485.7	2797.4	4275.4	2621.9
75°	543.5	549.6	560.4	578.9	611.2	654.3	714.4	856.0	1060.8	1230.1	1034.6
77.5°	418.8	431.1	438.8	455.7	475.7	505.0	521.9	575.8	669.7	705.1	694.3
80°	318.7	329.5	346.4	360.3	374.1	388.0	381.8	406.4	455.7	485.0	469.6
82.5°	203.2	215.5	264.8	277.1	283.3	292.5	281.7	283.3	304.8	323.3	304.8
85°	130.9	138.6	167.8	183.2	184.7	190.9	186.3	175.5	175.5	160.1	180.1
87.5°	60.0	61.6	75.4	89.3	92.4	83.1	81.6	78.5	63.1	60.0	64.7
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°	3719.6	3719.6	3719.6	3719.6	3719.6	3719.6	3719.6	3719.6
2.5°	3718.1	3721.1	3722.7	3727.3	3728.8	3728.8	3730.4	3733.5
5°	3747.3	3751.9	3753.5	3759.6	3761.2	3759.6	3762.7	3764.2
7.5°	3799.7	3807.4	3810.4	3816.6	3812.0	3818.1	3819.7	3819.7
10°	3876.6	3884.3	3885.9	3892.0	3889.0	3892.0	3892.0	3889.0
12.5°	3978.2	3979.8	3975.2	3979.8	3973.6	3976.7	3972.1	3969.0
15°	4090.6	4086.0	4075.2	4075.2	4066.0	4067.5	4066.0	4064.5
17.5°	4199.9	4190.7	4183.0	4179.9	4172.2	4170.7	4166.1	4166.1
20°	4320.0	4315.4	4310.8	4304.6	4296.9	4289.2	4287.7	4290.8
22.5°	4464.7	4463.2	4463.2	4460.1	4449.4	4441.7	4437.0	4437.0
25°	4658.7	4644.9	4644.9	4643.3	4638.7	4634.1	4624.9	4629.5
27.5°	4877.4	4869.7	4875.8	4874.3	4869.7	4869.7	4863.5	4863.5
30°	5146.8	5143.7	5152.9	5145.2	5129.8	5128.3	5122.1	5114.4
32.5°	5457.8	5454.7	5468.5	5459.3	5434.7	5420.8	5408.5	5402.3
35°	5804.2	5805.7	5822.6	5816.5	5788.8	5779.5	5758.0	5754.9
37.5°	6182.9	6207.5	6236.8	6243.0	6219.9	6213.7	6190.6	6178.3
40°	6627.8	6660.2	6704.8	6715.6	6691.0	6686.3	6654.0	6637.1
42.5°	7102.0	7157.5	7212.9	7222.1	7197.5	7172.8	7142.1	7129.7
45°	7631.6	7697.8	7770.2	7788.7	7751.7	7722.5	7682.4	7682.4
47.5°	8225.9	8309.1	8390.6	8441.5	8407.6	8376.8	8329.1	8298.3
50°	8928.0	9041.9	9148.1	9200.5	9146.6	9088.1	9004.9	8977.2
52.5°	9808.6	9931.8	10024.1	9996.4	9913.3	9831.7	9740.9	9703.9
55°	10932.5	10974.0	10974.0	10869.4	10703.1	10566.1	10422.9	10375.2
57.5°	12338.1	12178.0	11931.7	11619.1	11226.5	10884.7	10653.8	10544.5
60°	13990.1	13220.3	12350.4	11496.0	10793.9	10215.0	9871.7	9714.7
62.5°	15090.9	13077.1	11334.3	9962.5	8952.6	8255.2	7781.0	7596.2
65°	14104.0	10906.3	8572.3	6931.1	5830.3	5120.6	4651.0	4478.6
67.5°	10330.5	6834.1	4564.8	3271.6	2397.1	1912.1	1719.7	1639.6
70°	4637.2	2406.3	1474.9	1151.6	993.0	911.4	876.0	863.7
72.5°	1397.9	1011.5	852.9	769.8	706.7	666.6	637.4	634.3
75°	843.7	702.0	623.5	574.3	534.2	501.9	486.5	481.9
77.5°	589.7	515.8	478.8	443.4	412.6	388.0	374.1	363.3
80°	414.1	378.7	361.8	341.8	321.8	298.7	278.7	269.4
82.5°	277.1	269.4	269.4	257.1	240.2	218.6	178.6	169.4
85°	178.6	177.1	180.1	175.5	163.2	140.1	115.5	109.3
87.5°	83.1	84.7	93.9	92.4	89.3	73.9	58.5	55.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)