

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: P191023

Luminaire Tested: **GLEON-AF-05-LED-E1-RW-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191023
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-RW-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34125.6 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B5 - U0 - G5

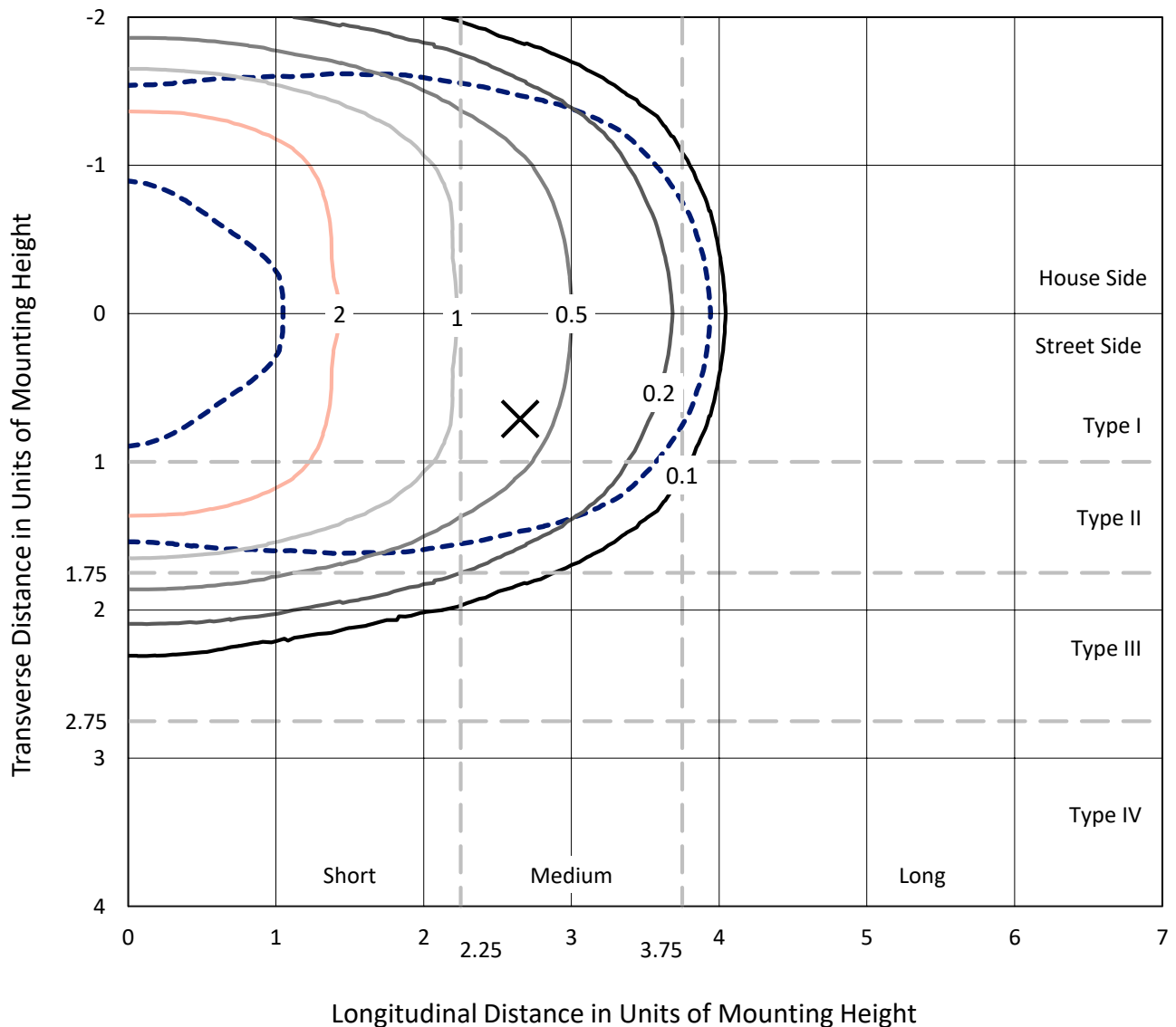
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

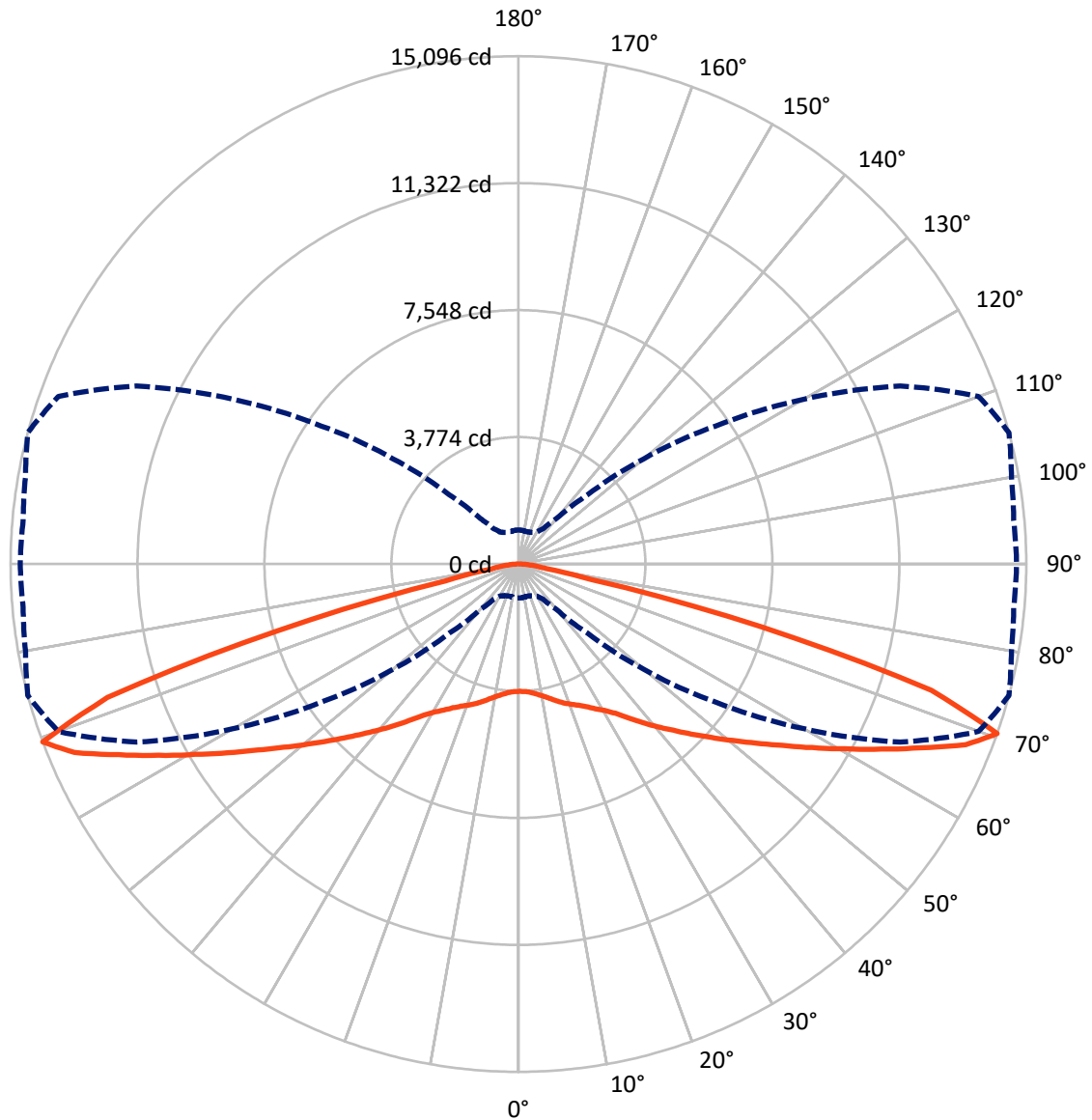
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17062.8	0.0	17062.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17062.8	0.0	17062.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	34125.6	0.0	34125.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.0	1.1
10°-20°	1128.0	3.3
20°-30°	2123.1	6.2
30°-40°	3759.6	11.0
40°-50°	6287.3	18.4
50°-60°	8761.4	25.7
60°-70°	8124.8	23.8
70°-80°	3238.0	9.5
80°-90°	340.4	1.0
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°	34125.6	100.0
0°-180°	34125.6	100.0



REPORT NUMBER: P191023

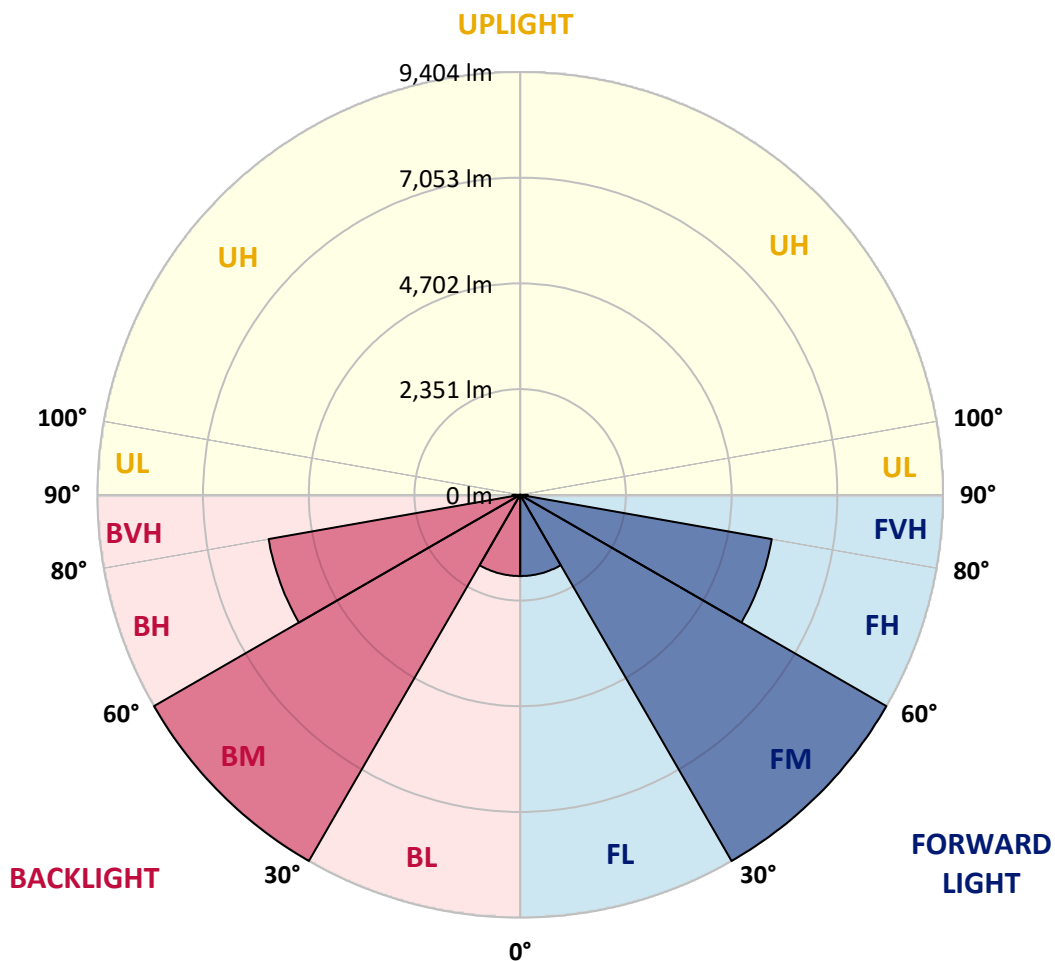
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1807.1	5.3			
FM	(30°-60°)	9404.2	27.6			
FH	(60°-80°)	5681.4	16.6			G3/7500
FVH	(80°-90°)	170.2	0.5			G2/225
BL	(0°-30°)	1807.1	5.3	B3/2500		
BM	(30°-60°)	9404.2	27.6	B5		
BH	(60°-80°)	5681.4	16.6	B5		G5
BVH	(80°-90°)	170.2	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3785.3	3785.3	3785.3	3785.3	3785.3	3785.3	3785.3	3785.3	3785.3	3785.3	3785.3
2.5°	3778.9	3775.6	3778.9	3777.2	3780.5	3780.5	3783.7	3790.1	3790.1	3795.0	3793.4
5°	3741.7	3740.2	3745.0	3749.8	3754.6	3764.4	3774.1	3788.6	3799.9	3807.9	3816.0
7.5°	3669.2	3669.2	3675.7	3686.9	3698.3	3719.2	3741.7	3770.8	3799.9	3824.0	3845.0
10°	3609.5	3612.8	3620.8	3640.2	3659.5	3691.8	3722.4	3764.4	3804.7	3845.0	3877.3
12.5°	3574.1	3578.9	3593.4	3622.5	3654.7	3698.3	3745.0	3798.2	3843.4	3891.8	3924.0
15°	3585.3	3588.5	3609.5	3645.0	3686.9	3741.7	3804.7	3867.6	3920.8	3972.4	4016.0
17.5°	3648.3	3653.1	3677.3	3717.6	3761.2	3825.6	3893.4	3964.3	4030.5	4088.5	4141.7
20°	3761.2	3766.0	3796.6	3840.2	3891.8	3957.9	4025.6	4099.8	4174.0	4235.3	4295.0
22.5°	3920.8	3928.8	3957.9	4001.5	4059.5	4130.5	4211.1	4290.2	4361.1	4417.5	4470.8
25°	4130.5	4148.2	4175.7	4224.1	4285.3	4349.8	4436.9	4517.6	4585.3	4638.6	4677.2
27.5°	4427.2	4451.5	4472.4	4519.2	4578.8	4640.1	4727.3	4798.2	4862.7	4914.4	4943.3
30°	4820.8	4845.0	4866.0	4911.1	4965.9	5024.0	5106.3	5169.2	5209.5	5249.8	5248.1
32.5°	5298.2	5323.9	5332.0	5380.4	5436.9	5499.8	5574.0	5609.5	5641.7	5646.6	5617.5
35°	5832.0	5844.9	5877.2	5941.7	6006.3	6057.8	6128.8	6146.5	6146.5	6122.4	6057.8
37.5°	6417.5	6425.6	6470.7	6543.3	6609.4	6662.6	6711.0	6746.5	6728.8	6677.1	6569.1
40°	7059.4	7073.9	7138.5	7202.9	7277.2	7327.1	7378.7	7385.2	7367.4	7291.6	7144.9
42.5°	7672.2	7685.1	7749.7	7851.2	7948.0	8017.4	8065.8	8075.5	8019.0	7949.7	7767.5
45°	8199.7	8233.5	8317.4	8436.8	8577.0	8675.4	8741.6	8769.0	8719.0	8628.7	8417.4
47.5°	8617.3	8651.3	8770.6	8912.6	9086.8	9246.4	9356.1	9414.1	9401.2	9333.5	9102.8
50°	8923.8	8956.0	9085.1	9259.3	9462.5	9660.8	9847.9	9986.7	10035.0	10004.5	9793.1
52.5°	8959.3	9012.5	9164.1	9398.0	9662.5	9933.5	10199.5	10435.0	10594.7	10618.9	10462.4
55°	8464.2	8517.4	8727.1	9073.8	9467.3	9909.2	10335.1	10731.8	11046.3	11207.7	11125.3
57.5°	7296.5	7391.6	7612.6	8019.0	8598.0	9259.3	9938.3	10643.1	11283.5	11710.8	11793.1
60°	5591.8	5704.6	5927.2	6359.4	7004.6	7793.2	8699.7	9741.6	10872.1	11833.4	12407.6
62.5°	3587.0	3693.4	3927.2	4303.0	4828.8	5683.6	6656.1	7893.2	9412.5	10930.2	12297.9
65°	1843.5	1901.6	2024.1	2251.5	2661.2	3299.8	4172.4	5406.2	7143.3	9015.8	10993.1
67.5°	1167.7	1179.0	1206.4	1238.7	1343.5	1564.5	1970.9	2740.2	4169.1	6122.4	8436.8
70°	1009.7	1009.7	996.8	991.9	1004.8	1035.4	1098.3	1277.4	1759.6	2906.3	4866.0
72.5°	924.1	914.5	891.9	874.1	870.9	870.9	883.8	911.2	988.7	1183.9	1904.7
75°	851.6	824.2	793.5	772.5	764.5	756.4	754.8	759.6	775.8	806.4	909.6
77.5°	762.9	727.4	691.9	671.0	661.2	650.0	640.3	629.0	620.9	630.6	675.8
80°	656.4	616.1	588.7	575.8	566.1	549.9	529.0	509.6	491.9	488.7	516.1
82.5°	529.0	482.2	483.9	488.7	471.0	448.4	425.8	404.8	374.2	358.0	374.2
85°	427.4	403.2	391.9	422.6	396.8	362.8	327.4	290.3	241.9	203.3	221.0
87.5°	166.1	166.1	248.4	382.3	343.5	280.6	240.3	204.8	127.5	98.4	100.0
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°	3785.3	3785.3	3785.3	3785.3	3785.3	3785.3	3785.3	3785.3
2.5°	3791.8	3795.0	3793.4	3791.8	3791.8	3790.1	3791.8	3791.8
5°	3820.8	3828.9	3828.9	3832.1	3832.1	3833.7	3835.3	3833.7
7.5°	3864.4	3878.8	3888.5	3899.8	3901.4	3903.1	3906.3	3903.1
10°	3907.9	3936.9	3957.9	3978.9	3988.6	3991.8	3995.0	3995.0
12.5°	3962.7	4003.0	4040.1	4077.3	4095.0	4104.7	4104.7	4111.1
15°	4053.0	4093.3	4136.9	4186.9	4217.5	4233.7	4238.5	4238.5
17.5°	4180.5	4216.0	4253.0	4301.4	4340.2	4361.1	4366.0	4364.3
20°	4328.8	4362.7	4383.7	4414.3	4448.2	4472.4	4478.9	4478.9
22.5°	4498.2	4517.6	4520.8	4530.4	4557.9	4590.2	4604.6	4607.9
25°	4685.3	4690.1	4677.2	4677.2	4694.9	4725.6	4740.1	4741.8
27.5°	4927.2	4903.0	4870.8	4859.5	4870.8	4906.3	4924.0	4930.4
30°	5228.8	5170.7	5096.5	5056.2	5049.8	5096.5	5128.9	5133.7
32.5°	5574.0	5490.1	5391.7	5309.4	5288.5	5317.5	5356.3	5354.6
35°	5983.6	5883.6	5764.3	5659.5	5611.1	5640.1	5695.0	5701.4
37.5°	6456.1	6325.5	6188.4	6056.2	5980.4	5988.5	6046.6	6065.9
40°	6983.6	6814.3	6641.7	6464.2	6356.2	6335.2	6406.2	6417.5
42.5°	7548.0	7330.4	7112.6	6893.3	6754.5	6722.3	6804.6	6799.8
45°	8149.6	7872.2	7617.4	7375.5	7211.0	7162.6	7230.3	7230.3
47.5°	8796.5	8454.5	8151.3	7877.1	7698.1	7628.8	7693.2	7698.1
50°	9481.8	9119.0	8762.5	8457.8	8243.2	8154.6	8238.3	8251.2
52.5°	10164.1	9810.9	9451.2	9102.8	8843.2	8735.1	8831.9	8873.8
55°	10856.0	10509.3	10165.7	9825.4	9517.3	9390.0	9493.2	9546.4
57.5°	11586.7	11265.7	10938.3	10594.7	10297.9	10099.6	10209.3	10280.2
60°	12443.1	12168.8	11828.6	11449.5	11149.6	10947.9	11010.8	11073.7
62.5°	13120.5	13226.9	12938.2	12499.5	12114.0	11856.0	11917.3	11983.4
65°	12793.0	13884.9	14141.4	13697.8	13163.9	12762.3	12736.6	12770.4
67.5°	10693.1	12814.0	14360.7	14783.3	14336.6	13778.4	13675.2	13725.2
70°	7153.0	9794.8	12523.7	14555.9	15096.2	14880.0	14778.5	14809.1
72.5°	3435.4	5704.6	8496.4	11197.9	12843.0	13597.8	13839.7	13957.4
75°	1256.4	2264.4	4095.0	6170.7	7449.7	8623.9	9390.0	9702.8
77.5°	758.0	914.5	1308.0	1969.3	2230.5	2496.7	2393.5	2445.1
80°	561.3	633.8	717.7	806.4	835.4	835.4	803.2	777.3
82.5°	393.5	440.3	480.6	529.0	542.0	517.7	425.8	338.7
85°	253.2	274.2	292.0	322.5	314.5	300.0	201.6	179.0
87.5°	116.1	132.3	138.7	153.2	146.8	140.3	100.0	83.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)