

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: P190997

Luminaire Tested: **GLEON-AF-09-LED-E1-RW-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190997
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-09-LED-E1-RW-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36661.5 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 290
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

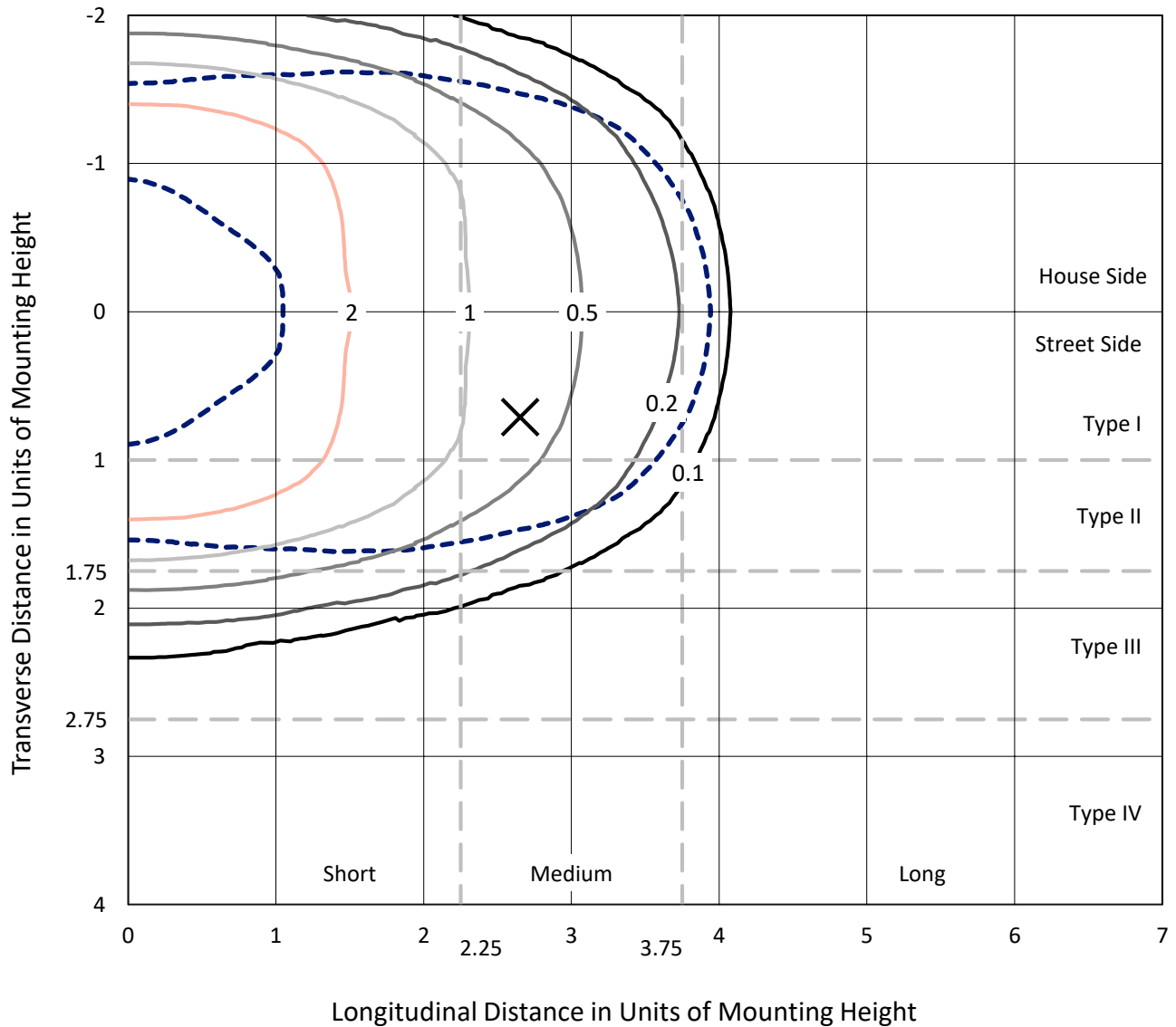


REPORT NUMBER: P190997

CATALOG NUMBER: GLEON-AF-09-LED-E1-RW-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

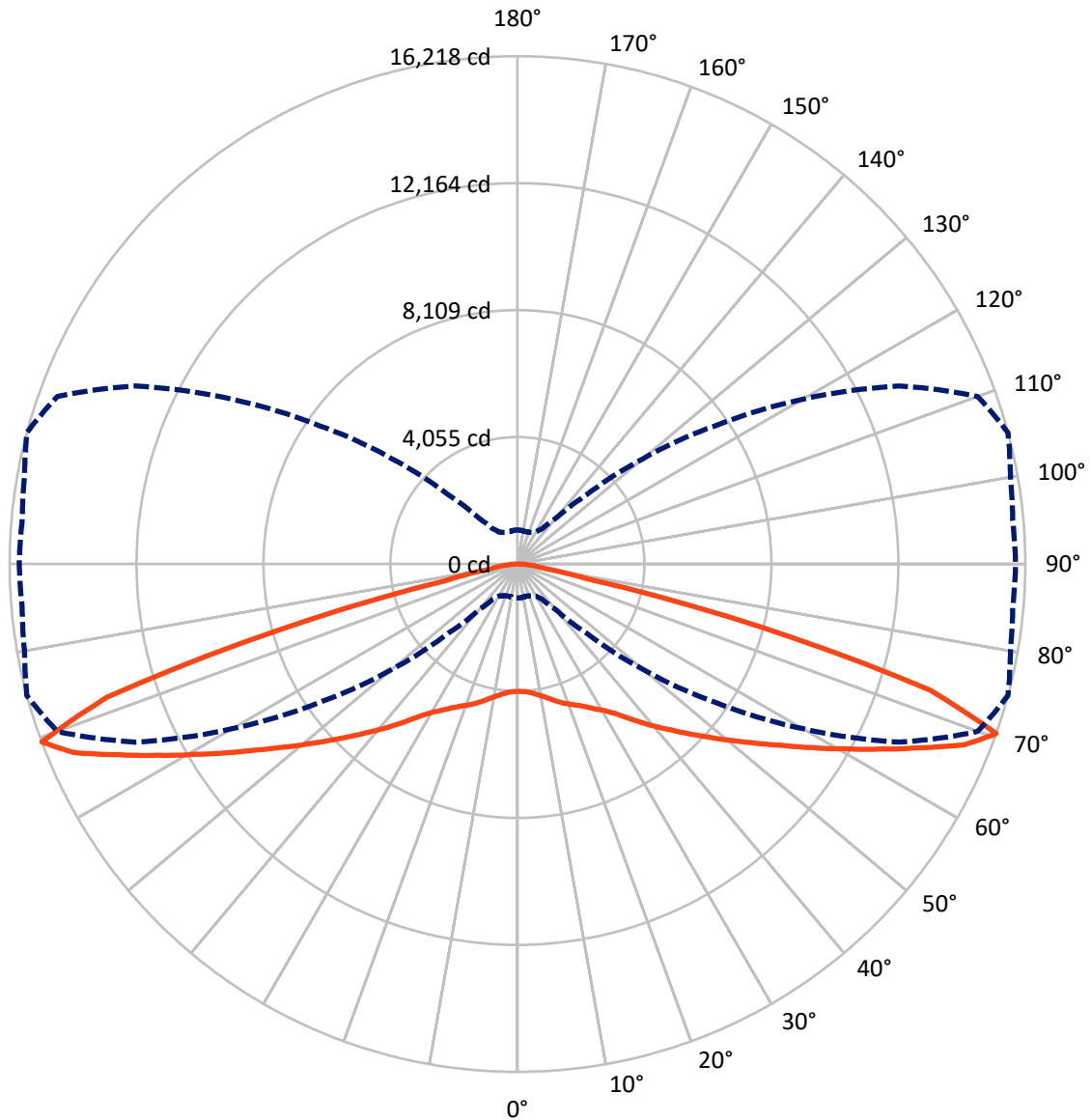


Based on 30 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P190997

CATALOG NUMBER: GLEON-AF-09-LED-E1-RW-600

Luminous Intensity Polar Plot



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

REPORT NUMBER: P190997

CATALOG NUMBER: GLEON-AF-09-LED-E1-RW-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18330.8	0.0	18330.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18330.8	0.0	18330.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	36661.5	0.0	36661.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.0	1.1
10°-20°	1211.9	3.3
20°-30°	2280.9	6.2
30°-40°	4039.0	11.0
40°-50°	6754.5	18.4
50°-60°	9412.5	25.7
60°-70°	8728.5	23.8
70°-80°	3478.6	9.5
80°-90°	365.7	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°	36661.5	100.0
0°-180°	36661.5	100.0



REPORT NUMBER: P190997

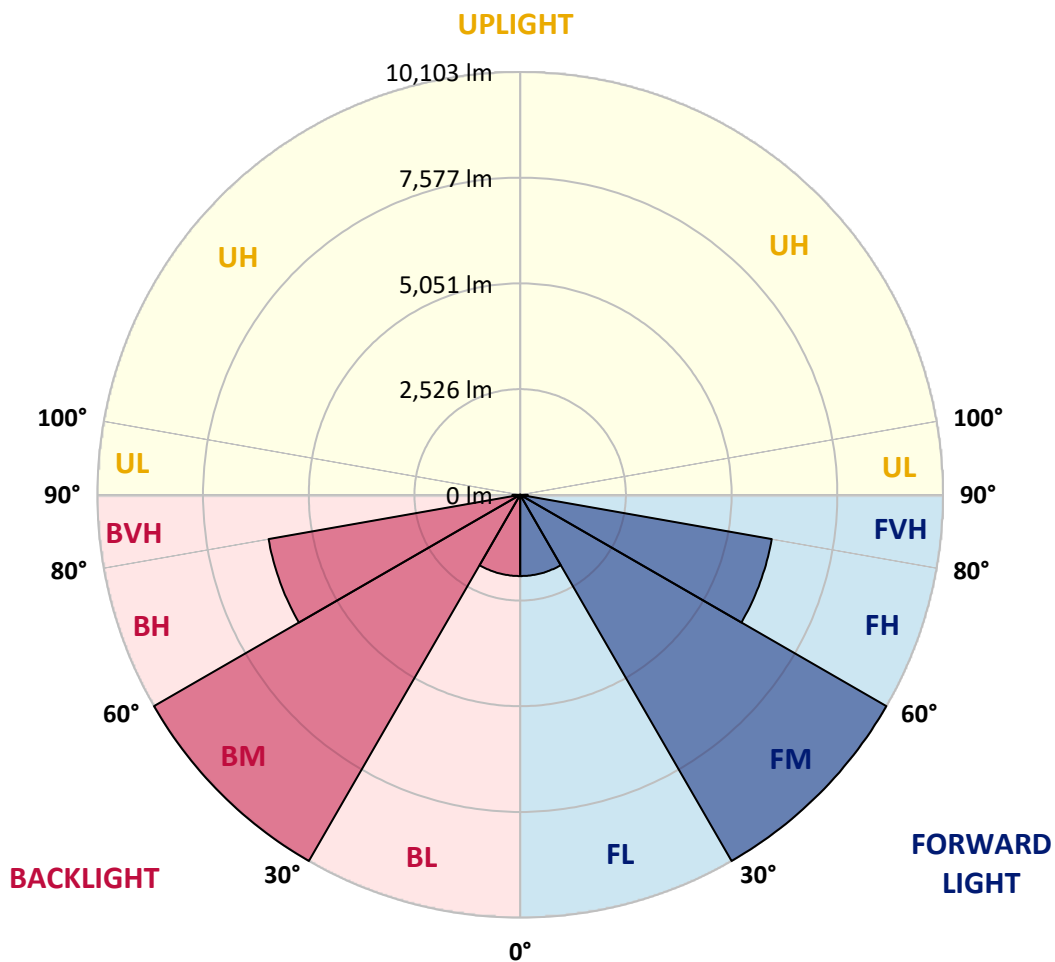
CATALOG NUMBER: GLEON-AF-09-LED-E1-RW-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1941.4	5.3			
FM	(30°-60°)	10103.0	27.6			
FH	(60°-80°)	6103.6	16.6			G3/7500
FVH	(80°-90°)	182.8	0.5			G2/225
BL	(0°-30°)	1941.4	5.3	B3/2500		
BM	(30°-60°)	10103.0	27.6	B5		
BH	(60°-80°)	6103.6	16.6	B5		G5
BVH	(80°-90°)	182.8	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





REPORT NUMBER: P190997

CATALOG NUMBER: GLEON-AF-09-LED-E1-RW-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4066.6	4066.6	4066.6	4066.6	4066.6	4066.6	4066.6	4066.6	4066.6	4066.6	4066.6
2.5°	4059.7	4056.2	4059.7	4057.9	4061.4	4061.4	4064.9	4071.9	4071.9	4077.0	4075.2
5°	4019.8	4018.2	4023.3	4028.5	4033.7	4044.1	4054.5	4070.1	4082.2	4090.9	4099.6
7.5°	3941.8	3941.8	3948.8	3961.0	3973.0	3995.5	4019.8	4051.0	4082.2	4108.2	4130.8
10°	3877.8	3881.2	3889.9	3910.6	3931.5	3966.1	3999.0	4044.1	4087.4	4130.8	4165.4
12.5°	3839.6	3844.9	3860.4	3891.6	3926.3	3973.0	4023.3	4080.4	4129.0	4181.0	4215.6
15°	3851.7	3855.2	3877.8	3915.9	3961.0	4019.8	4087.4	4155.0	4212.2	4267.6	4314.4
17.5°	3919.3	3924.6	3950.5	3993.8	4040.7	4109.9	4182.7	4259.0	4329.9	4392.3	4449.5
20°	4040.7	4045.9	4078.7	4125.6	4181.0	4252.0	4324.8	4404.5	4484.2	4550.1	4614.1
22.5°	4212.2	4220.8	4252.0	4298.8	4361.1	4437.5	4524.0	4608.9	4685.2	4745.9	4803.1
25°	4437.5	4456.5	4485.9	4537.9	4603.8	4673.0	4766.6	4853.3	4926.0	4983.2	5024.8
27.5°	4756.2	4782.2	4804.7	4855.0	4919.1	4984.9	5078.5	5154.8	5224.0	5279.4	5310.6
30°	5179.0	5205.0	5227.5	5276.1	5335.0	5397.3	5485.7	5553.3	5596.6	5639.9	5638.2
32.5°	5691.9	5719.6	5728.2	5780.3	5840.8	5908.5	5988.1	6026.3	6061.0	6066.1	6035.0
35°	6265.4	6279.3	6314.0	6383.2	6452.6	6508.0	6584.2	6603.2	6603.2	6577.3	6508.0
37.5°	6894.4	6903.1	6951.6	7029.5	7100.5	7157.7	7209.8	7247.8	7228.8	7173.3	7057.2
40°	7584.0	7599.6	7668.9	7738.2	7817.9	7871.6	7927.1	7934.0	7914.9	7833.5	7675.8
42.5°	8242.4	8256.2	8325.6	8434.7	8538.7	8613.1	8665.2	8675.5	8614.9	8540.4	8344.6
45°	8808.9	8845.4	8935.5	9063.7	9214.4	9320.1	9391.2	9420.7	9367.0	9269.9	9042.9
47.5°	9257.7	9294.1	9422.4	9574.8	9761.9	9933.5	10051.3	10113.7	10099.8	10027.1	9779.3
50°	9587.0	9621.6	9760.3	9947.4	10165.7	10378.8	10579.8	10728.8	10780.8	10747.8	10520.8
52.5°	9625.0	9682.2	9845.1	10096.4	10380.5	10671.6	10957.5	11210.5	11382.1	11408.0	11240.0
55°	9093.1	9150.3	9375.5	9748.1	10170.9	10645.6	11103.1	11529.3	11867.2	12040.4	11952.1
57.5°	7838.7	7940.9	8178.3	8614.9	9236.9	9947.4	10676.8	11434.0	12121.9	12581.1	12669.5
60°	6007.3	6128.5	6367.7	6832.0	7525.0	8372.3	9346.1	10465.4	11680.1	12712.7	13329.6
62.5°	3853.5	3967.8	4219.1	4622.8	5187.7	6106.0	7150.8	8479.8	10112.0	11742.5	13211.7
65°	1980.4	2042.8	2174.5	2418.9	2858.9	3545.0	4482.5	5808.0	7674.1	9685.7	11810.0
67.5°	1254.4	1266.6	1296.1	1330.7	1443.3	1680.7	2117.3	2943.8	4479.0	6577.3	9063.7
70°	1084.6	1084.6	1070.8	1065.6	1079.4	1112.4	1180.0	1372.3	1890.4	3122.4	5227.5
72.5°	992.9	982.4	958.2	939.1	935.7	935.7	949.5	979.0	1062.1	1271.8	2046.3
75°	914.8	885.4	852.5	829.9	821.3	812.6	810.9	816.1	833.4	866.3	977.2
77.5°	819.6	781.4	743.3	720.8	710.4	698.3	687.8	675.8	667.1	677.5	726.0
80°	705.2	661.8	632.4	618.6	608.1	590.9	568.4	547.5	528.5	525.0	554.4
82.5°	568.4	518.1	519.8	525.0	506.0	481.7	457.5	434.9	402.0	384.6	402.0
85°	459.2	433.2	421.0	454.0	426.3	389.8	351.7	311.9	259.9	218.3	237.4
87.5°	178.5	178.5	266.8	410.6	369.1	301.5	258.2	220.0	136.9	105.7	107.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P190997

CATALOG NUMBER: GLEON-AF-09-LED-E1-RW-600

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	4066.6	4066.6	4066.6	4066.6	4066.6	4066.6	4066.6	4066.6
2.5°	4073.6	4077.0	4075.2	4073.6	4073.6	4071.9	4073.6	4073.6
5°	4104.7	4113.4	4113.4	4116.9	4116.9	4118.6	4120.3	4118.6
7.5°	4151.5	4167.1	4177.5	4189.6	4191.3	4193.1	4196.6	4193.1
10°	4198.3	4229.5	4252.0	4274.5	4284.9	4288.4	4291.9	4291.9
12.5°	4257.2	4300.5	4340.4	4380.3	4399.3	4409.7	4409.7	4416.6
15°	4354.3	4397.6	4444.3	4498.0	4531.0	4548.3	4553.5	4553.5
17.5°	4491.2	4529.2	4569.1	4621.1	4662.7	4685.2	4690.4	4688.7
20°	4650.5	4687.0	4709.5	4742.4	4778.7	4804.7	4811.7	4811.7
22.5°	4832.4	4853.3	4856.8	4867.1	4896.6	4931.2	4946.8	4950.3
25°	5033.4	5038.6	5024.8	5024.8	5043.9	5076.8	5092.4	5094.1
27.5°	5293.4	5267.4	5232.7	5220.6	5232.7	5270.9	5289.9	5296.8
30°	5617.3	5555.0	5475.3	5432.0	5425.0	5475.3	5509.9	5515.1
32.5°	5988.1	5898.0	5792.4	5704.0	5681.5	5712.7	5754.3	5752.6
35°	6428.2	6320.8	6192.6	6080.0	6028.0	6059.2	6118.2	6125.0
37.5°	6935.9	6795.6	6648.4	6506.3	6424.8	6433.4	6495.8	6516.6
40°	7502.5	7320.6	7135.2	6944.6	6828.5	6806.0	6882.2	6894.4
42.5°	8108.9	7875.1	7641.1	7405.6	7256.5	7221.8	7310.2	7305.0
45°	8755.2	8457.2	8183.5	7923.6	7746.8	7694.8	7767.7	7767.7
47.5°	9450.1	9082.8	8757.0	8462.5	8270.1	8195.6	8264.9	8270.1
50°	10186.4	9796.6	9413.7	9086.3	8855.8	8760.4	8850.6	8864.4
52.5°	10919.4	10540.0	10153.5	9779.3	9500.3	9384.2	9488.2	9533.3
55°	11662.8	11290.2	10921.1	10555.5	10224.6	10087.7	10198.6	10255.8
57.5°	12447.7	12102.8	11751.0	11382.1	11063.2	10850.1	10967.9	11044.2
60°	13367.7	13073.1	12707.5	12300.4	11978.0	11761.5	11829.1	11896.6
62.5°	14095.4	14209.8	13899.7	13428.4	13014.2	12737.0	12802.8	12873.8
65°	13743.7	14916.7	15192.3	14715.8	14142.2	13710.7	13683.0	13719.4
67.5°	11487.7	13766.2	15427.8	15881.8	15401.9	14802.3	14691.4	14745.2
70°	7684.5	10522.6	13454.4	15637.5	16218.0	15985.8	15876.6	15909.5
72.5°	3690.6	6128.5	9127.8	12030.0	13797.4	14608.2	14868.2	14994.7
75°	1349.8	2432.7	4399.3	6629.2	8003.3	9264.7	10087.7	10423.9
77.5°	814.4	982.4	1405.2	2115.6	2396.3	2682.2	2571.3	2626.7
80°	602.9	681.0	771.0	866.3	897.5	897.5	862.9	835.1
82.5°	422.8	473.0	516.4	568.4	582.2	556.2	457.5	363.9
85°	272.0	294.5	313.6	346.6	337.9	322.2	216.6	192.3
87.5°	124.8	142.1	149.0	164.6	157.6	150.8	107.4	90.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)