

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: P191797

Luminaire Tested: **GLEON-AF-09-LED-E1-RW-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191797
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-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35839 lumens
Efficiency: N/A
Efficacy: 123.6 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

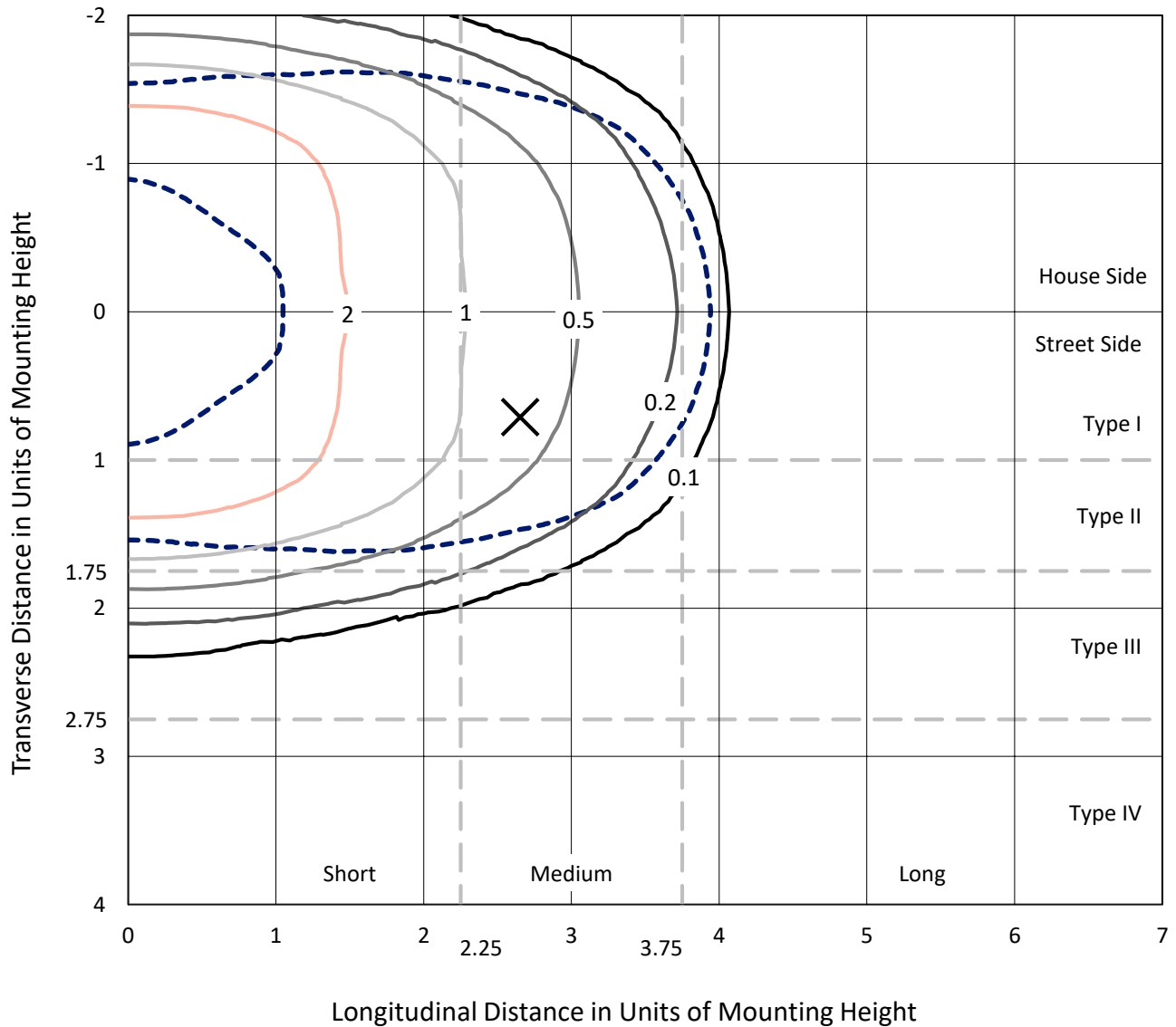


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Iso-Footcandle Lines of Horizontal Illumination

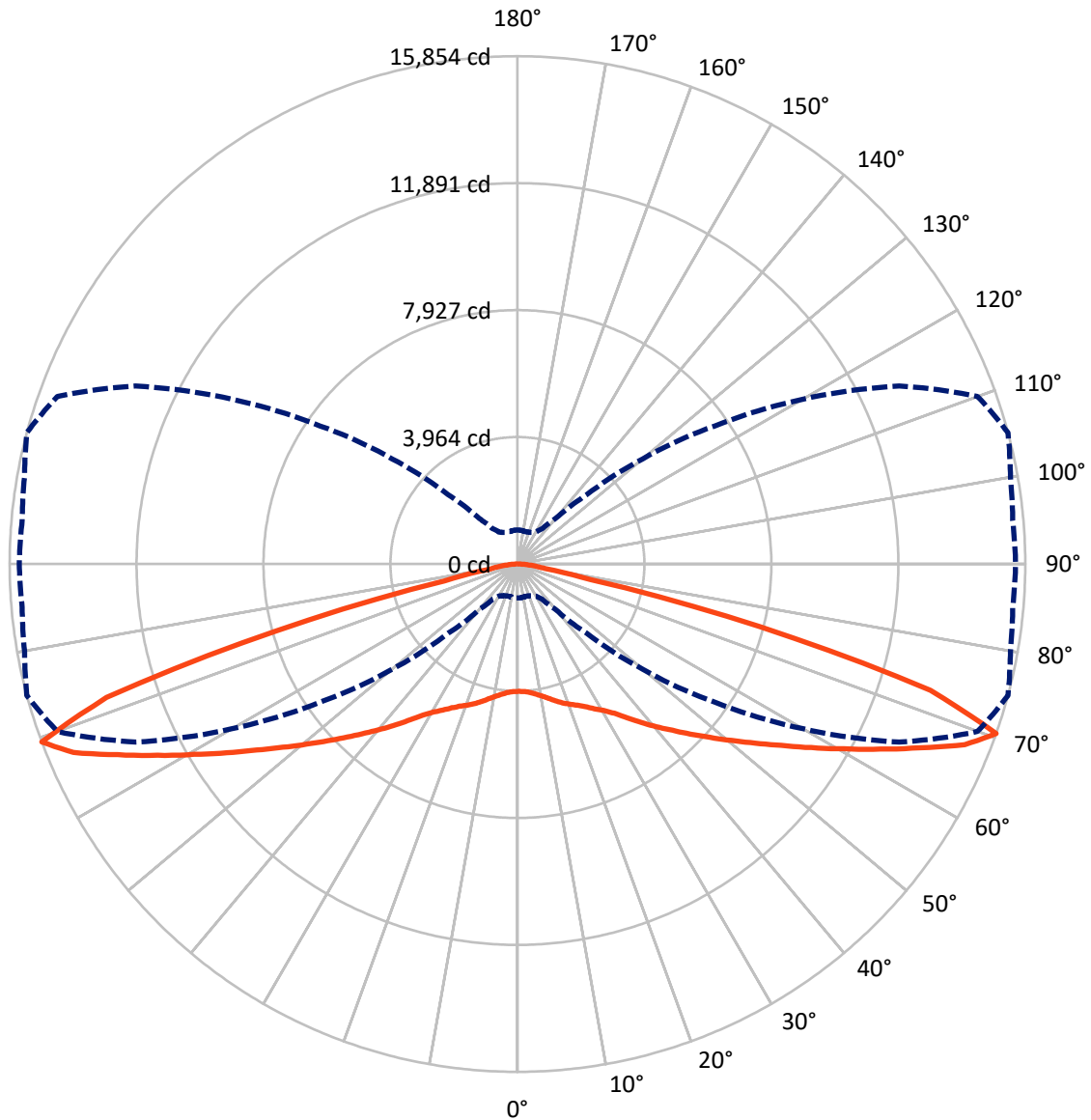
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.5 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	17919.5	0.0	17919.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17919.5	0.0	17919.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	35839.0	0.0	35839.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.3	1.1
10°-20°	1184.7	3.3
20°-30°	2229.7	6.2
30°-40°	3948.4	11.0
40°-50°	6603.0	18.4
50°-60°	9201.3	25.7
60°-70°	8532.7	23.8
70°-80°	3400.5	9.5
80°-90°	357.4	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°	35839.0	100.0
0°-180°	35839.0	100.0



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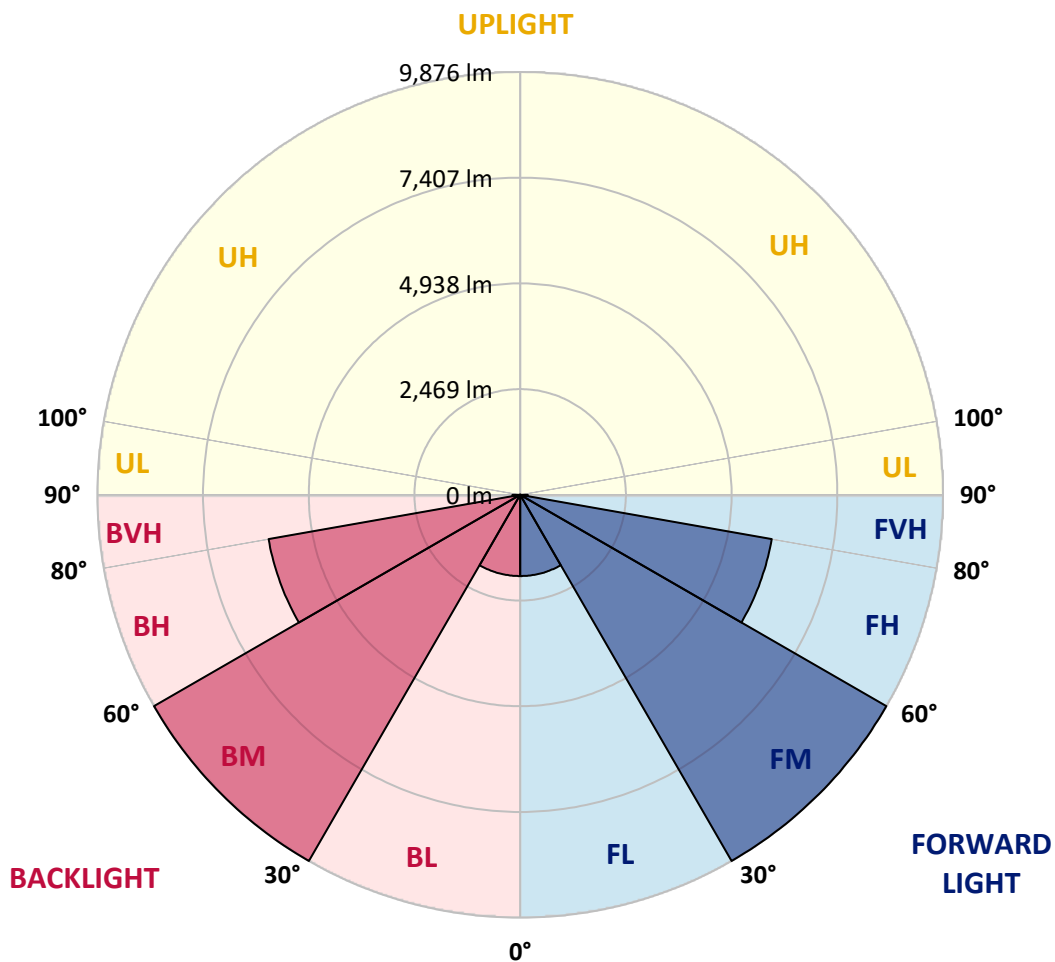
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1897.8	5.3			
FM	(30°-60°)	9876.3	27.6			
FH	(60°-80°)	5966.6	16.6			G3/7500
FVH	(80°-90°)	178.7	0.5			G2/225
BL	(0°-30°)	1897.8	5.3	B3/2500		
BM	(30°-60°)	9876.3	27.6	B5		
BH	(60°-80°)	5966.6	16.6	B5		G5
BVH	(80°-90°)	178.7	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°	3975.4	3975.4	3975.4	3975.4	3975.4	3975.4	3975.4	3975.4	3975.4	3975.4	3975.4
2.5°	3968.6	3965.2	3968.6	3966.9	3970.3	3970.3	3973.7	3980.5	3980.5	3985.5	3983.8
5°	3929.6	3928.0	3933.0	3938.1	3943.2	3953.4	3963.5	3978.8	3990.6	3999.1	4007.6
7.5°	3853.4	3853.4	3860.2	3872.1	3883.9	3905.9	3929.6	3960.1	3990.6	4016.0	4038.1
10°	3790.8	3794.1	3802.6	3822.9	3843.3	3877.1	3909.3	3953.4	3995.7	4038.1	4071.9
12.5°	3753.5	3758.6	3773.8	3804.3	3838.2	3883.9	3933.0	3988.9	4036.4	4087.2	4121.0
15°	3765.3	3768.7	3790.8	3828.0	3872.1	3929.6	3995.7	4061.8	4117.7	4171.9	4217.6
17.5°	3831.4	3836.5	3861.9	3904.2	3950.0	4017.7	4088.9	4163.4	4232.8	4293.8	4349.7
20°	3950.0	3955.1	3987.2	4033.0	4087.2	4156.6	4227.8	4305.7	4383.6	4448.0	4510.6
22.5°	4117.7	4126.1	4156.6	4202.4	4263.3	4337.9	4422.5	4505.5	4580.1	4639.4	4695.3
25°	4337.9	4356.5	4385.3	4436.1	4500.5	4568.2	4659.7	4744.4	4815.5	4871.4	4912.1
27.5°	4649.5	4674.9	4696.9	4746.1	4808.7	4873.1	4964.6	5039.1	5106.8	5161.0	5191.5
30°	5062.8	5088.2	5110.2	5157.7	5215.3	5276.2	5362.6	5428.7	5471.0	5513.4	5511.7
32.5°	5564.2	5591.3	5599.7	5650.6	5709.8	5775.9	5853.8	5891.1	5925.0	5930.0	5899.6
35°	6124.8	6138.4	6172.3	6240.0	6307.8	6362.0	6436.5	6455.1	6455.1	6429.7	6362.0
37.5°	6739.7	6748.2	6795.6	6871.8	6941.2	6997.1	7048.0	7085.2	7066.6	7012.4	6898.9
40°	7413.8	7429.1	7496.8	7564.6	7642.5	7695.0	7749.2	7756.0	7737.3	7657.7	7503.6
42.5°	8057.5	8071.0	8138.8	8245.5	8347.1	8419.9	8470.8	8480.9	8421.6	8348.8	8157.4
45°	8611.3	8646.9	8735.0	8860.3	9007.7	9111.0	9180.5	9209.3	9156.8	9061.9	8840.0
47.5°	9050.0	9085.6	9211.0	9360.0	9542.9	9710.6	9825.8	9886.8	9873.2	9802.1	9559.9
50°	9371.9	9405.7	9541.3	9724.2	9937.6	10145.9	10342.4	10488.1	10538.9	10506.7	10284.8
52.5°	9409.1	9465.0	9624.2	9869.9	10147.6	10432.2	10711.7	10959.0	11126.7	11152.1	10987.8
55°	8889.1	8945.0	9165.2	9529.4	9942.7	10406.8	10854.0	11270.6	11600.9	11770.3	11683.9
57.5°	7662.8	7762.7	7994.8	8421.6	9029.7	9724.2	10437.3	11177.5	11849.9	12298.8	12385.2
60°	5872.5	5991.0	6224.8	6678.7	7356.2	8184.5	9136.4	10230.6	11418.0	12427.5	13030.5
62.5°	3767.0	3878.8	4124.4	4519.1	5071.3	5969.0	6990.4	8289.5	9885.1	11479.0	12915.3
65°	1936.0	1997.0	2125.7	2364.6	2794.8	3465.5	4381.9	5677.7	7501.9	9468.4	11545.0
67.5°	1226.3	1238.2	1267.0	1300.8	1410.9	1643.0	2069.8	2877.8	4378.5	6429.7	8860.3
70°	1060.3	1060.3	1046.8	1041.7	1055.2	1087.4	1153.5	1341.5	1848.0	3052.3	5110.2
72.5°	970.6	960.4	936.7	918.0	914.7	914.7	928.2	957.0	1038.3	1243.3	2000.4
75°	894.3	865.5	833.4	811.3	802.9	794.4	792.7	797.8	814.7	846.9	955.3
77.5°	801.2	763.9	726.6	704.6	694.5	682.6	672.4	660.6	652.1	662.3	709.7
80°	689.4	647.0	618.2	604.7	594.5	577.6	555.6	535.2	516.6	513.2	542.0
82.5°	555.6	506.5	508.1	513.2	494.6	470.9	447.2	425.1	393.0	376.0	393.0
85°	448.9	423.5	411.6	443.8	416.7	381.1	343.8	304.9	254.1	213.4	232.1
87.5°	174.5	174.5	260.8	401.4	360.8	294.7	252.4	215.1	133.8	103.3	105.0
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°	3975.4	3975.4	3975.4	3975.4	3975.4	3975.4	3975.4	3975.4
2.5°	3982.2	3985.5	3983.8	3982.2	3982.2	3980.5	3982.2	3982.2
5°	4012.6	4021.1	4021.1	4024.5	4024.5	4026.2	4027.9	4026.2
7.5°	4058.4	4073.6	4083.8	4095.6	4097.3	4099.0	4102.4	4099.0
10°	4104.1	4134.6	4156.6	4178.6	4188.8	4192.2	4195.6	4195.6
12.5°	4161.7	4204.0	4243.0	4282.0	4300.6	4310.8	4310.8	4317.5
15°	4256.6	4298.9	4344.6	4397.1	4429.3	4446.3	4451.3	4451.3
17.5°	4390.4	4427.6	4466.6	4517.4	4558.1	4580.1	4585.2	4583.5
20°	4546.2	4581.8	4603.8	4636.0	4671.5	4696.9	4703.7	4703.7
22.5°	4724.0	4744.4	4747.8	4757.9	4786.7	4820.6	4835.8	4839.2
25°	4920.5	4925.6	4912.1	4912.1	4930.7	4962.9	4978.1	4979.8
27.5°	5174.6	5149.2	5115.3	5103.5	5115.3	5152.6	5171.2	5178.0
30°	5491.3	5430.4	5352.5	5310.1	5303.3	5352.5	5386.3	5391.4
32.5°	5853.8	5765.7	5662.4	5576.0	5554.0	5584.5	5625.2	5623.5
35°	6284.0	6179.0	6053.7	5943.6	5892.8	5923.3	5980.9	5987.6
37.5°	6780.3	6643.1	6499.2	6360.3	6280.7	6289.1	6350.1	6370.4
40°	7334.2	7156.4	6975.1	6788.8	6675.3	6653.3	6727.8	6739.7
42.5°	7927.0	7698.4	7469.7	7239.4	7093.7	7059.8	7146.2	7141.1
45°	8558.8	8267.5	7999.9	7745.8	7573.0	7522.2	7593.4	7593.4
47.5°	9238.1	8879.0	8560.5	8272.6	8084.6	8011.7	8079.5	8084.6
50°	9957.9	9576.8	9202.5	8882.4	8657.1	8563.9	8652.0	8665.5
52.5°	10674.4	10303.5	9925.7	9559.9	9287.2	9173.7	9275.3	9319.4
55°	11401.1	11036.9	10676.1	10318.7	9995.2	9861.4	9969.8	10025.7
57.5°	12168.4	11831.3	11487.4	11126.7	10815.0	10606.7	10721.8	10796.4
60°	13067.8	12779.8	12422.4	12024.4	11709.3	11497.6	11563.7	11629.7
62.5°	13779.2	13891.0	13587.8	13127.1	12722.2	12451.2	12515.6	12585.0
65°	13435.3	14582.0	14851.4	14385.6	13824.9	13403.1	13376.0	13411.6
67.5°	11230.0	13457.3	15081.7	15525.5	15056.3	14470.2	14361.8	14414.4
70°	7512.1	10286.5	13152.5	15286.7	15854.1	15627.1	15520.4	15552.6
72.5°	3607.8	5991.0	8923.0	11760.1	13487.8	14280.5	14534.6	14658.3
75°	1319.5	2378.1	4300.6	6480.5	7823.7	9056.8	9861.4	10190.0
77.5°	796.1	960.4	1373.7	2068.1	2342.5	2622.0	2513.6	2567.8
80°	589.4	665.7	753.7	846.9	877.4	877.4	843.5	816.4
82.5°	413.3	462.4	504.8	555.6	569.1	543.7	447.2	355.7
85°	265.9	287.9	306.6	338.8	330.3	315.0	211.7	188.0
87.5°	122.0	138.9	145.7	160.9	154.1	147.4	105.0	88.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)