

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: P300572

Luminaire Tested: **GLNA-AF-07-LED-E1-RW-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300572
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: GLNA-AF-07-LED-E1-RW-7030
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND
Rectangular Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41487.4 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B5 - U0 - G5

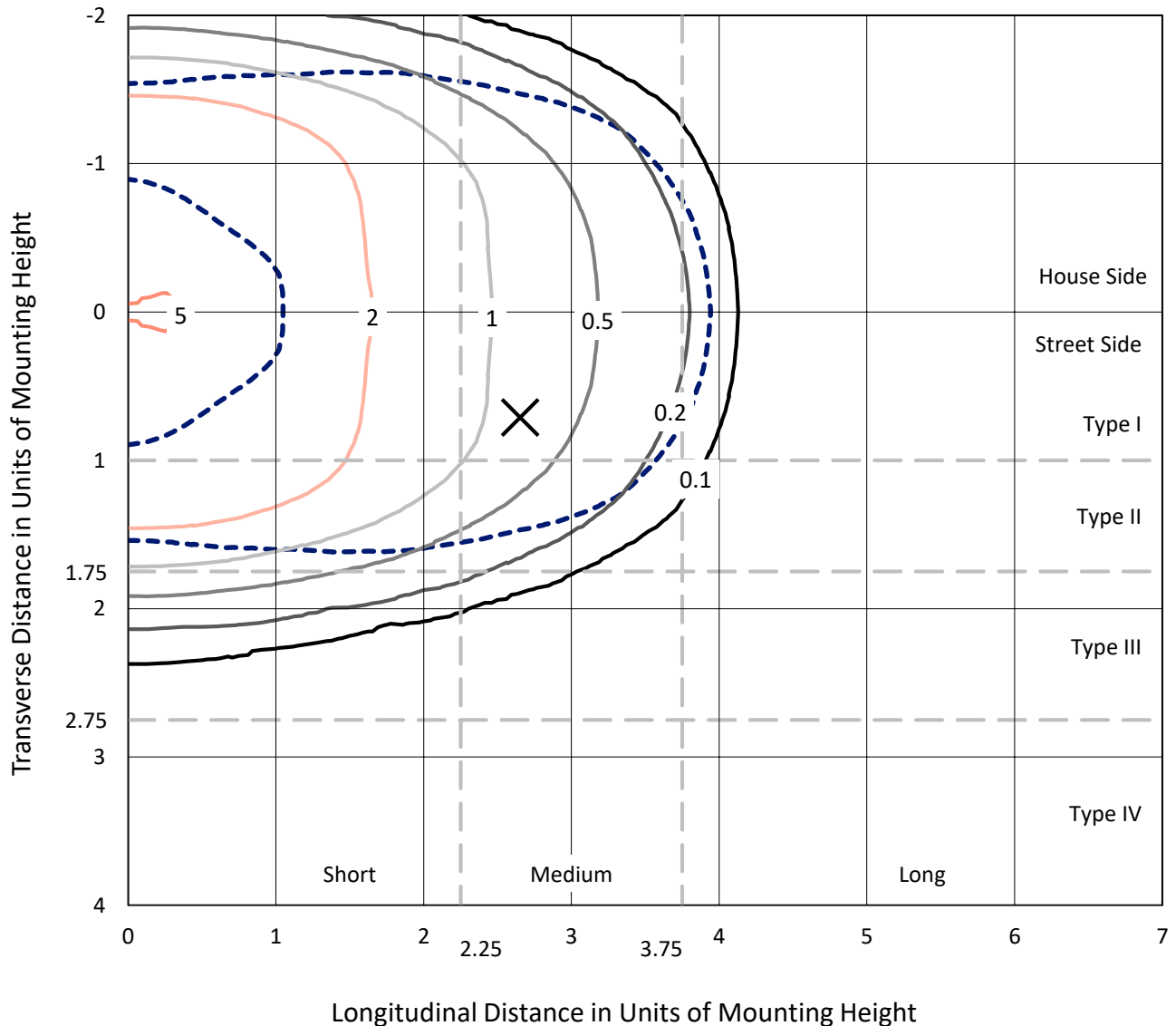
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

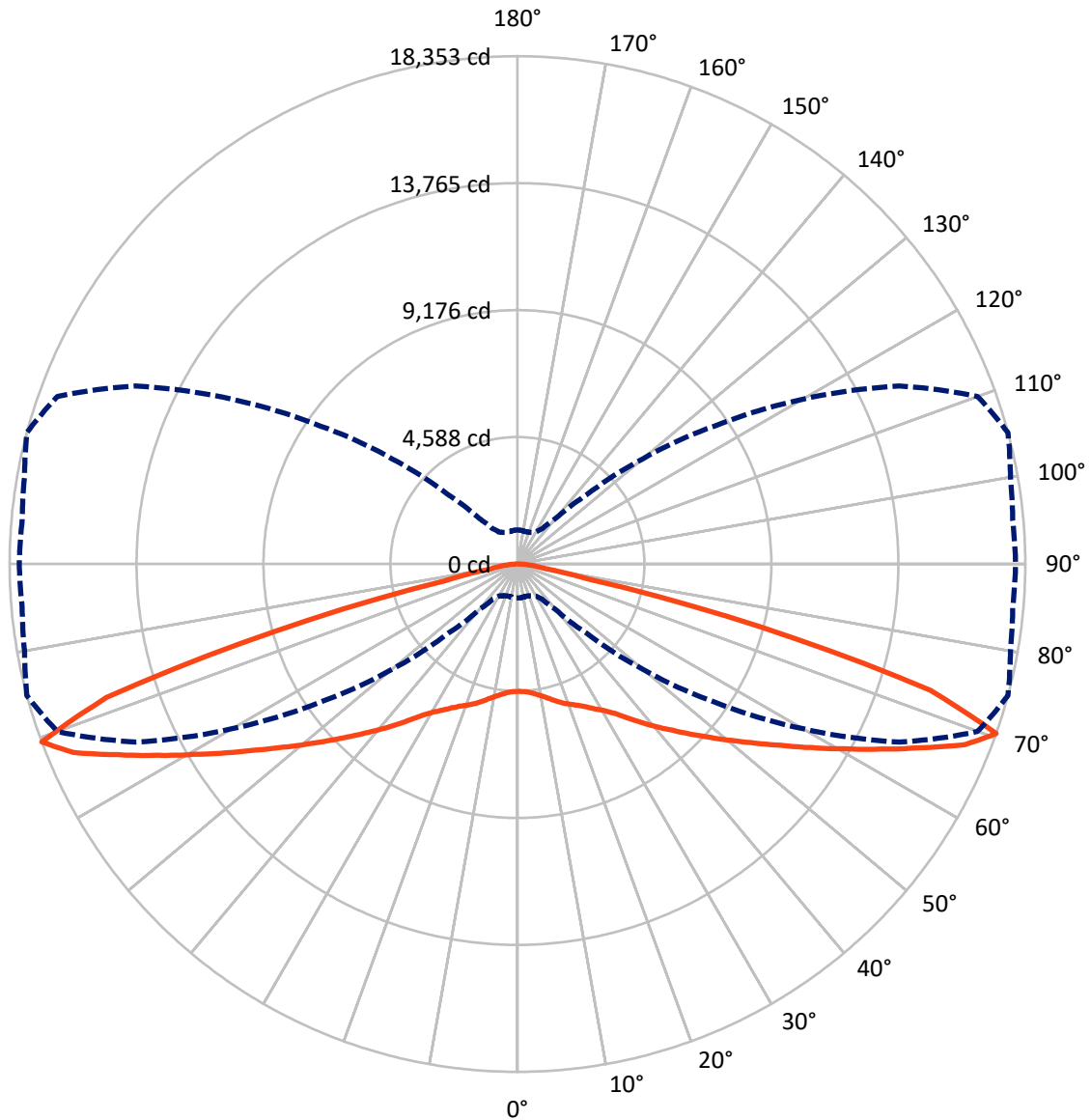
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.2 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	20743.7	0.0	20743.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20743.7	0.0	20743.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	41487.4	0.0	41487.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.4	1.1
10°-20°	1371.4	3.3
20°-30°	2581.1	6.2
30°-40°	4570.7	11.0
40°-50°	7643.7	18.4
50°-60°	10651.5	25.7
60°-70°	9877.5	23.8
70°-80°	3936.5	9.5
80°-90°	413.8	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°	41487.4	100.0
0°-180°	41487.4	100.0



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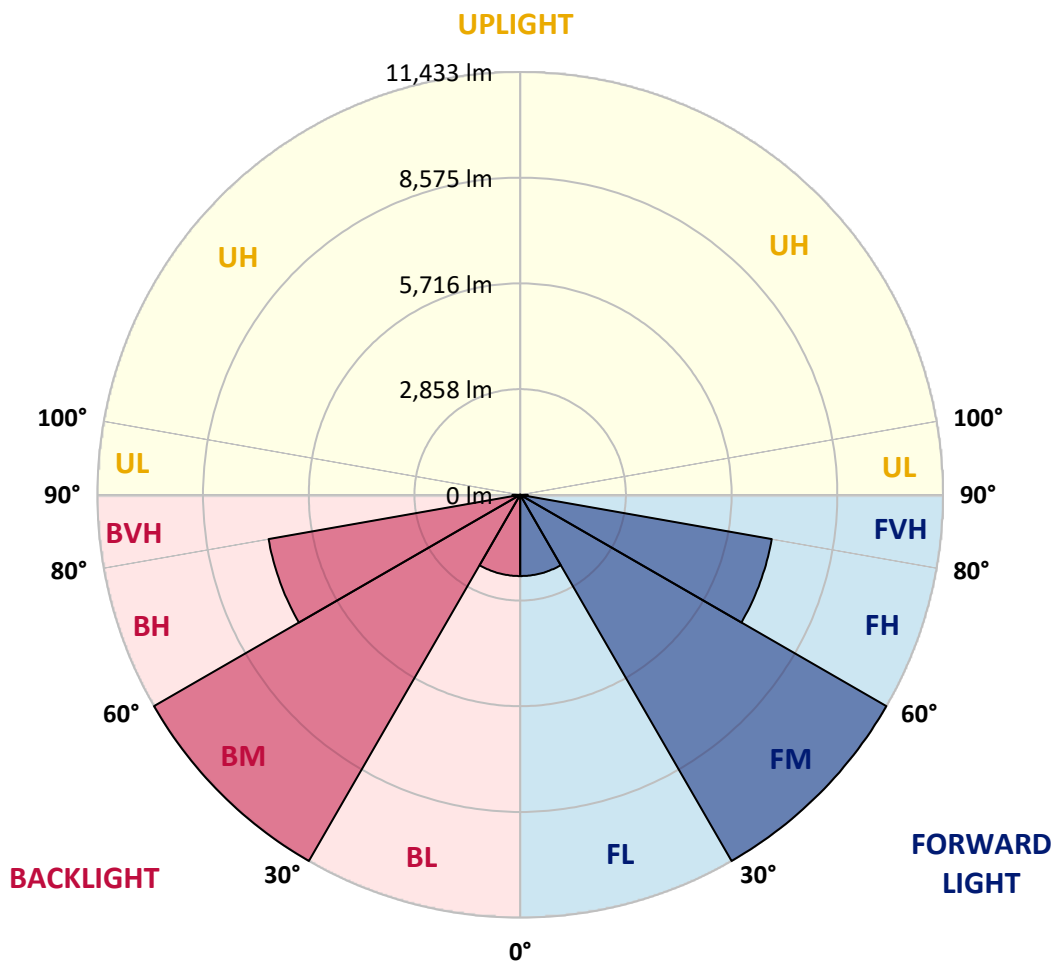
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2196.9	5.3			
FM	(30°-60°)	11432.9	27.6			
FH	(60°-80°)	6907.0	16.6			G3/7500
FVH	(80°-90°)	206.9	0.5			G2/225
BL	(0°-30°)	2196.9	5.3	B3/2500		
BM	(30°-60°)	11432.9	27.6	B5		
BH	(60°-80°)	6907.0	16.6	B5		G5
BVH	(80°-90°)	206.9	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°	4601.9	4601.9	4601.9	4601.9	4601.9	4601.9	4601.9	4601.9	4601.9	4601.9	4601.9
2.5°	4594.1	4590.2	4594.1	4592.1	4596.0	4596.0	4600.0	4607.8	4607.8	4613.7	4611.7
5°	4549.0	4547.0	4552.9	4558.8	4564.7	4576.4	4588.2	4605.8	4619.6	4629.4	4639.2
7.5°	4460.7	4460.7	4468.6	4482.3	4496.0	4521.5	4549.0	4584.3	4619.6	4649.0	4674.5
10°	4388.2	4392.1	4401.9	4425.5	4449.0	4488.2	4525.5	4576.4	4625.4	4674.5	4713.7
12.5°	4345.1	4350.9	4368.6	4403.9	4443.1	4496.0	4552.9	4617.6	4672.5	4731.3	4770.5
15°	4358.8	4362.7	4388.2	4431.3	4482.3	4549.0	4625.4	4701.9	4766.6	4829.4	4882.3
17.5°	4435.3	4441.1	4470.5	4519.6	4572.5	4650.9	4733.3	4819.6	4900.0	4970.5	5035.2
20°	4572.5	4578.4	4615.6	4668.6	4731.3	4811.7	4894.1	4984.3	5074.5	5149.0	5221.5
22.5°	4766.6	4776.4	4811.7	4864.7	4935.3	5021.5	5119.6	5215.6	5301.9	5370.5	5435.2
25°	5021.5	5043.1	5076.4	5135.2	5209.8	5288.2	5394.1	5492.1	5574.5	5639.2	5686.2
27.5°	5382.3	5411.7	5437.2	5494.1	5566.6	5641.1	5747.0	5833.3	5911.7	5974.5	6009.8
30°	5860.7	5890.1	5915.6	5970.5	6037.2	6107.8	6207.8	6284.3	6333.3	6382.3	6380.3
32.5°	6441.1	6472.5	6482.3	6541.1	6609.7	6686.2	6776.4	6819.5	6858.8	6864.6	6829.4
35°	7090.1	7105.8	7145.0	7223.5	7301.9	7364.6	7450.9	7472.5	7472.5	7443.1	7364.6
37.5°	7801.9	7811.7	7866.6	7954.8	8035.2	8099.9	8158.8	8201.9	8180.3	8117.6	7986.2
40°	8582.3	8599.9	8678.4	8756.8	8847.0	8907.8	8970.5	8978.4	8956.8	8864.6	8686.2
42.5°	9327.4	9343.1	9421.5	9545.0	9662.7	9747.0	9805.8	9817.6	9748.9	9664.6	9443.1
45°	9968.5	10009.7	10111.7	10256.8	10427.4	10547.0	10627.4	10660.7	10599.9	10490.1	10233.2
47.5°	10476.4	10517.6	10662.7	10835.2	11047.0	11241.1	11374.4	11445.0	11429.3	11347.0	11066.6
50°	10848.9	10888.1	11045.0	11256.8	11503.8	11745.0	11972.4	12141.1	12199.9	12162.6	11905.8
52.5°	10892.1	10956.8	11141.1	11425.4	11747.0	12076.4	12399.9	12686.2	12880.3	12909.7	12719.5
55°	10290.1	10354.8	10609.7	11031.3	11509.7	12047.0	12564.6	13046.9	13429.3	13625.4	13525.4
57.5°	8870.5	8986.2	9254.8	9748.9	10452.8	11256.8	12082.2	12939.1	13717.5	14237.1	14337.1
60°	6798.0	6935.2	7205.8	7731.3	8515.6	9474.4	10576.4	11843.0	13217.5	14386.1	15084.2
62.5°	4360.7	4490.2	4774.5	5231.3	5870.5	6909.7	8092.1	9596.0	11443.0	13288.1	14950.8
65°	2241.2	2311.7	2460.8	2737.2	3235.3	4011.7	5072.5	6572.5	8684.2	10960.7	13364.6
67.5°	1419.6	1433.3	1466.7	1505.9	1633.3	1901.9	2396.1	3331.3	5068.6	7443.1	10256.8
70°	1227.4	1227.4	1211.8	1205.9	1221.6	1258.8	1335.3	1552.9	2139.2	3533.3	5915.6
72.5°	1123.5	1111.8	1084.3	1062.7	1058.8	1058.8	1074.5	1107.8	1202.0	1439.2	2315.7
75°	1035.3	1002.0	964.7	939.2	929.4	919.6	917.6	923.5	943.1	980.4	1105.9
77.5°	927.4	884.3	841.2	815.7	803.9	790.2	778.4	764.7	754.9	766.7	821.6
80°	798.0	749.0	715.7	700.0	688.2	668.6	643.1	619.6	598.0	594.1	627.4
82.5°	643.1	586.3	588.2	594.1	572.5	545.1	517.6	492.2	454.9	435.3	454.9
85°	519.6	490.2	476.5	513.7	482.3	441.2	398.0	352.9	294.1	247.1	268.6
87.5°	202.0	202.0	302.0	464.7	417.6	341.2	292.2	249.0	154.9	119.6	121.6
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°	4601.9	4601.9	4601.9	4601.9	4601.9	4601.9	4601.9	4601.9
2.5°	4609.8	4613.7	4611.7	4609.8	4609.8	4607.8	4609.8	4609.8
5°	4645.1	4654.9	4654.9	4658.8	4658.8	4660.7	4662.7	4660.7
7.5°	4698.0	4715.6	4727.4	4741.1	4743.1	4745.1	4749.0	4745.1
10°	4750.9	4786.2	4811.7	4837.2	4849.0	4852.9	4856.8	4856.8
12.5°	4817.6	4866.6	4911.7	4956.8	4978.4	4990.2	4990.2	4998.0
15°	4927.4	4976.4	5029.4	5090.2	5127.4	5147.0	5152.9	5152.9
17.5°	5082.3	5125.4	5170.5	5229.4	5276.4	5301.9	5307.8	5305.8
20°	5262.7	5303.9	5329.4	5366.6	5407.8	5437.2	5445.1	5445.1
22.5°	5468.6	5492.1	5496.0	5507.8	5541.1	5580.3	5598.0	5601.9
25°	5696.0	5701.9	5686.2	5686.2	5707.8	5745.0	5762.7	5764.7
27.5°	5990.1	5960.7	5921.5	5907.8	5921.5	5964.7	5986.2	5994.1
30°	6356.8	6286.2	6196.0	6147.0	6139.2	6196.0	6235.2	6241.1
32.5°	6776.4	6674.5	6554.8	6454.8	6429.4	6464.6	6511.7	6509.7
35°	7274.4	7152.9	7007.8	6880.3	6821.5	6856.8	6923.5	6931.3
37.5°	7849.0	7690.1	7523.5	7362.7	7270.5	7280.3	7350.9	7374.4
40°	8490.1	8284.2	8074.4	7858.8	7727.4	7701.9	7788.2	7801.9
42.5°	9176.4	8911.7	8647.0	8380.3	8211.7	8172.5	8272.5	8266.6
45°	9907.8	9570.5	9260.7	8966.6	8766.6	8707.8	8790.1	8790.1
47.5°	10694.0	10278.3	9909.7	9576.4	9358.7	9274.4	9352.9	9358.7
50°	11527.3	11086.2	10652.8	10282.3	10021.5	9913.6	10015.6	10031.3
52.5°	12356.8	11927.3	11490.1	11066.6	10750.9	10619.5	10737.2	10788.1
55°	13197.9	12776.4	12358.7	11945.0	11570.5	11415.6	11541.1	11605.8
57.5°	14086.2	13696.0	13297.9	12880.3	12519.5	12278.3	12411.7	12497.9
60°	15127.3	14794.0	14380.3	13919.5	13554.8	13309.7	13386.2	13462.6
62.5°	15950.8	16080.3	15729.3	15195.9	14727.3	14413.6	14488.1	14568.5
65°	15552.8	16880.2	17192.0	16652.8	16003.8	15515.6	15484.2	15525.4
67.5°	12999.9	15578.3	17458.7	17972.4	17429.3	16750.8	16625.3	16686.1
70°	8696.0	11907.7	15225.4	17695.9	18352.8	18090.0	17966.5	18003.8
72.5°	4176.4	6935.2	10329.3	13613.6	15613.6	16531.2	16825.3	16968.5
75°	1527.4	2752.9	4978.4	7501.9	9056.8	10484.2	11415.6	11796.0
77.5°	921.6	1111.8	1590.2	2394.1	2711.7	3035.3	2909.8	2972.5
80°	682.3	770.6	872.5	980.4	1015.7	1015.7	976.5	945.1
82.5°	478.4	535.3	584.3	643.1	658.8	629.4	517.6	411.8
85°	307.8	333.3	354.9	392.2	382.3	364.7	245.1	217.6
87.5°	141.2	160.8	168.6	186.3	178.4	170.6	121.6	102.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)