

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: P300638

Luminaire Tested: **GLNA-AF-08-LED-E1-RW-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300638
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-08-LED-E1-RW-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Rectangular
Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37976.1 lumens
Efficiency: N/A
Efficacy: 113.7 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

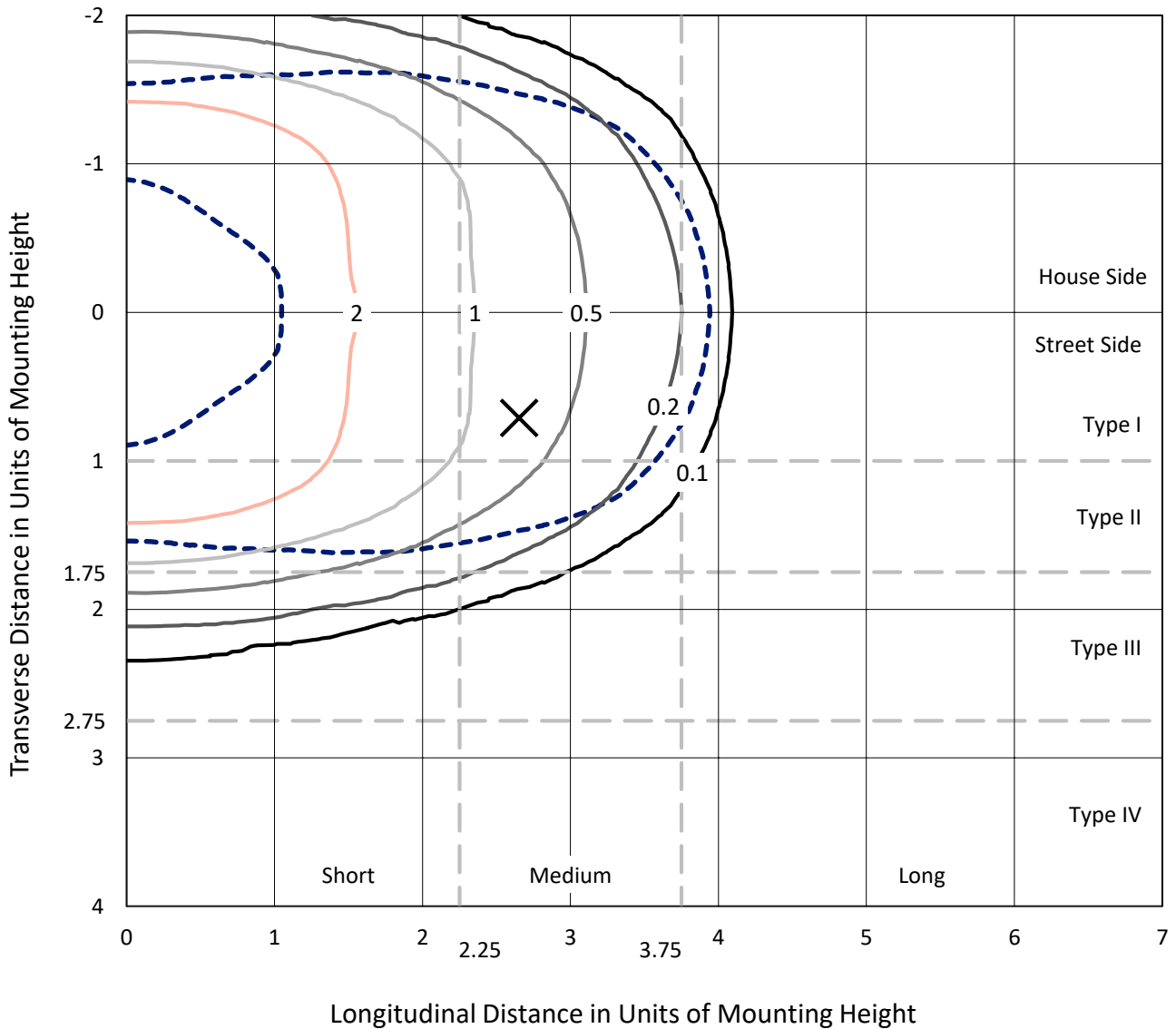
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

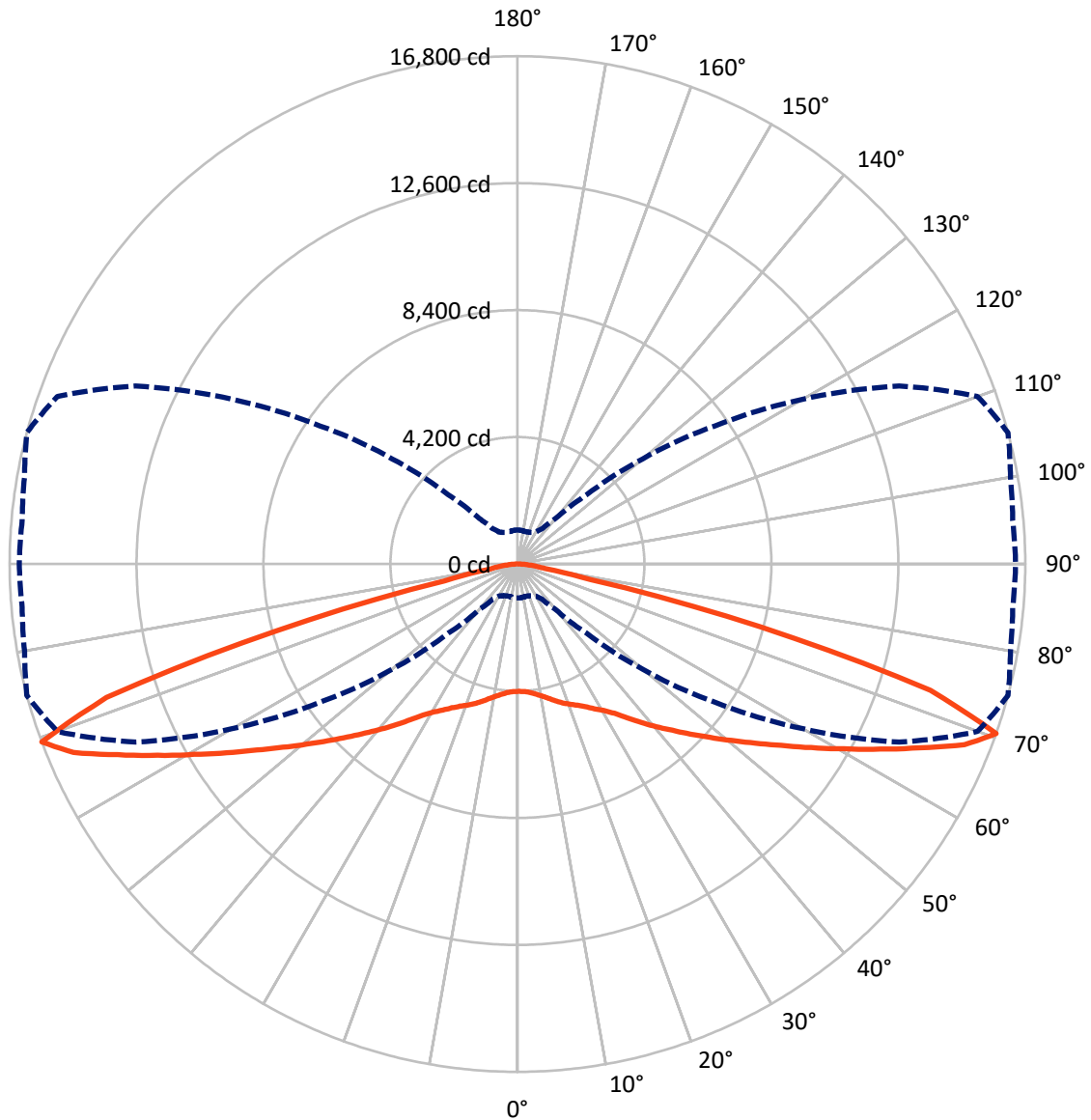
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.7 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	18988.1	0.0	18988.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18988.1	0.0	18988.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	37976.1	0.0	37976.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.0	1.1
10°-20°	1255.3	3.3
20°-30°	2362.7	6.2
30°-40°	4183.8	11.0
40°-50°	6996.7	18.4
50°-60°	9750.0	25.7
60°-70°	9041.5	23.8
70°-80°	3603.3	9.5
80°-90°	378.8	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°	37976.1	100.0
0°-180°	37976.1	100.0



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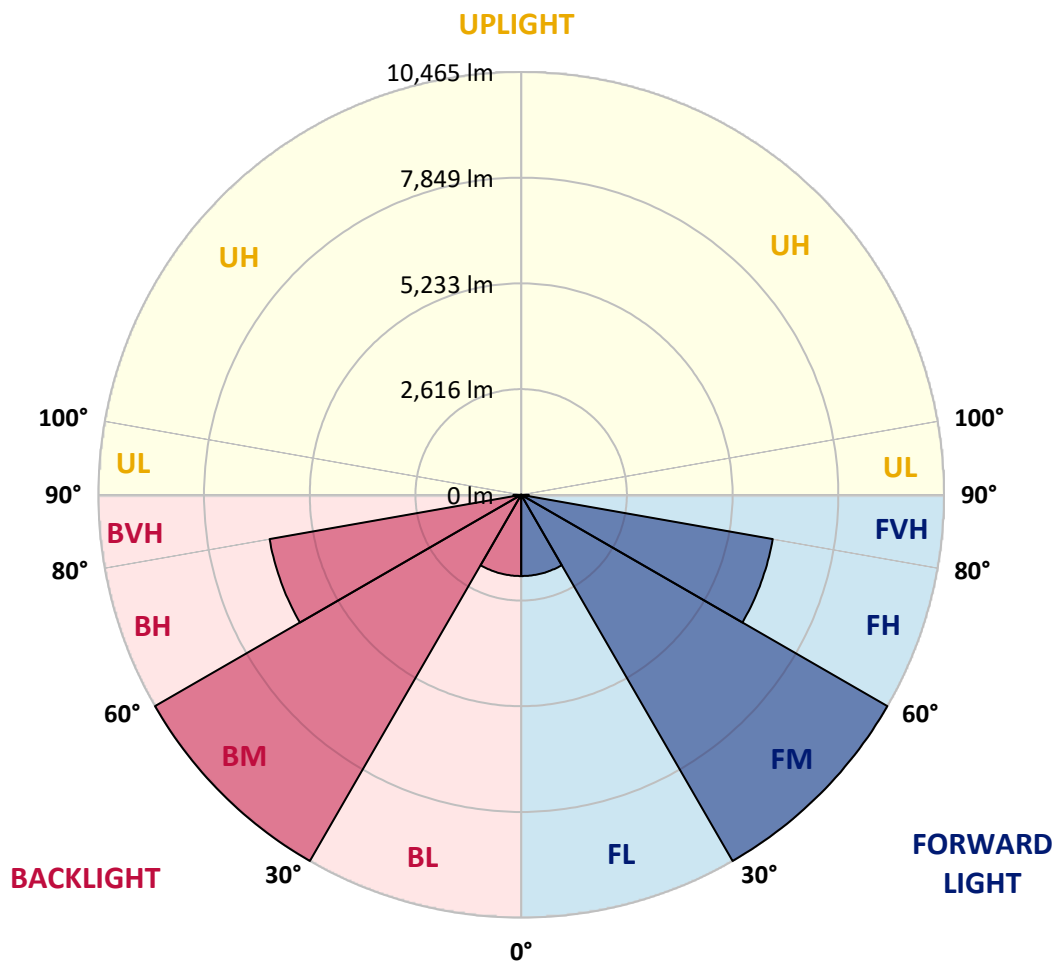
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2011.0	5.3			
FM	(30°-60°)	10465.3	27.6			
FH	(60°-80°)	6322.4	16.6			G3/7500
FVH	(80°-90°)	189.4	0.5			G2/225
BL	(0°-30°)	2011.0	5.3	B3/2500		
BM	(30°-60°)	10465.3	27.6	B5		
BH	(60°-80°)	6322.4	16.6	B5		G5
BVH	(80°-90°)	189.4	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°	4212.4	4212.4	4212.4	4212.4	4212.4	4212.4	4212.4	4212.4	4212.4	4212.4	4212.4
2.5°	4205.3	4201.7	4205.3	4203.5	4207.1	4207.1	4210.6	4217.8	4217.8	4223.2	4221.4
5°	4164.0	4162.2	4167.6	4173.0	4178.3	4189.1	4199.9	4216.0	4228.6	4237.6	4246.5
7.5°	4083.2	4083.2	4090.4	4103.0	4115.5	4138.8	4164.0	4196.3	4228.6	4255.5	4278.8
10°	4016.8	4020.4	4029.4	4050.9	4072.4	4108.3	4142.4	4189.1	4234.0	4278.8	4314.7
12.5°	3977.3	3982.7	3998.9	4031.2	4067.1	4115.5	4167.6	4226.8	4277.1	4330.9	4366.8
15°	3989.9	3993.5	4016.8	4056.3	4103.0	4164.0	4234.0	4304.0	4363.2	4420.6	4469.1
17.5°	4059.9	4065.3	4092.2	4137.1	4185.5	4257.3	4332.7	4411.7	4485.2	4549.9	4609.1
20°	4185.5	4190.9	4225.0	4273.5	4330.9	4404.5	4479.9	4562.4	4645.0	4713.2	4779.6
22.5°	4363.2	4372.2	4404.5	4452.9	4517.6	4596.5	4686.3	4774.2	4853.2	4916.0	4975.2
25°	4596.5	4616.3	4646.8	4700.6	4768.8	4840.6	4937.5	5027.3	5102.7	5161.9	5205.0
27.5°	4926.8	4953.7	4977.0	5029.1	5095.5	5163.7	5260.6	5339.6	5411.4	5468.8	5501.1
30°	5364.7	5391.6	5415.0	5465.2	5526.2	5590.9	5682.4	5752.4	5797.3	5842.1	5840.3
32.5°	5896.0	5924.7	5933.7	5987.5	6050.3	6120.3	6202.9	6242.4	6278.3	6283.7	6251.4
35°	6490.1	6504.4	6540.3	6612.1	6683.9	6741.3	6820.3	6840.1	6840.1	6813.1	6741.3
37.5°	7141.6	7150.6	7200.8	7281.6	7355.2	7414.4	7468.2	7507.7	7488.0	7430.5	7310.3
40°	7855.9	7872.1	7943.9	8015.7	8098.2	8153.9	8211.3	8218.5	8198.7	8114.4	7951.0
42.5°	8537.9	8552.3	8624.1	8737.2	8844.9	8922.0	8975.9	8986.7	8923.8	8846.7	8643.8
45°	9124.9	9162.5	9255.9	9388.7	9544.8	9654.3	9727.9	9758.4	9702.8	9602.3	9367.2
47.5°	9589.7	9627.4	9760.2	9918.2	10112.0	10289.7	10411.7	10476.4	10462.0	10386.6	10130.0
50°	9930.7	9966.6	10110.2	10304.0	10530.2	10751.0	10959.2	11113.5	11167.4	11133.3	10898.1
52.5°	9970.2	10029.4	10198.2	10458.4	10752.8	11054.3	11350.4	11612.5	11790.2	11817.1	11643.0
55°	9419.2	9478.4	9711.8	10097.6	10535.6	11027.4	11501.2	11942.7	12292.7	12472.2	12380.7
57.5°	8119.8	8225.6	8471.5	8923.8	9568.2	10304.0	11059.7	11844.0	12556.5	13032.2	13123.7
60°	6222.6	6348.3	6596.0	7077.0	7794.9	8672.6	9681.2	10840.7	12098.9	13168.6	13807.5
62.5°	3991.7	4110.1	4370.4	4788.6	5373.7	6324.9	7407.2	8783.8	10474.6	12163.5	13685.5
65°	2051.5	2116.1	2252.5	2505.6	2961.4	3672.2	4643.2	6016.2	7949.2	10033.0	12233.5
67.5°	1299.4	1312.0	1342.5	1378.4	1495.1	1741.0	2193.3	3049.4	4639.6	6813.1	9388.7
70°	1123.6	1123.6	1109.2	1103.8	1118.2	1152.3	1222.3	1421.5	1958.1	3234.3	5415.0
72.5°	1028.4	1017.7	992.5	972.8	969.2	969.2	983.6	1014.1	1100.2	1317.4	2119.7
75°	947.7	917.2	883.1	859.7	850.7	841.8	840.0	845.4	863.3	897.4	1012.3
77.5°	848.9	809.5	770.0	746.6	735.9	723.3	712.5	700.0	691.0	701.8	752.0
80°	730.5	685.6	655.1	640.7	630.0	612.0	588.7	567.2	547.4	543.8	574.3
82.5°	588.7	536.7	538.4	543.8	524.1	499.0	473.8	450.5	416.4	398.4	416.4
85°	475.6	448.7	436.1	470.2	441.5	403.8	364.3	323.1	269.2	226.1	245.9
87.5°	184.9	184.9	276.4	425.4	382.3	312.3	267.4	227.9	141.8	109.5	111.3
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°	4212.4	4212.4	4212.4	4212.4	4212.4	4212.4	4212.4	4212.4
2.5°	4219.6	4223.2	4221.4	4219.6	4219.6	4217.8	4219.6	4219.6
5°	4251.9	4260.9	4260.9	4264.5	4264.5	4266.3	4268.1	4266.3
7.5°	4300.4	4316.5	4327.3	4339.9	4341.7	4343.5	4347.0	4343.5
10°	4348.8	4381.2	4404.5	4427.8	4438.6	4442.2	4445.8	4445.8
12.5°	4409.9	4454.7	4496.0	4537.3	4557.0	4567.8	4567.8	4575.0
15°	4510.4	4555.2	4603.7	4659.3	4693.4	4711.4	4716.8	4716.8
17.5°	4652.2	4691.7	4732.9	4786.8	4829.9	4853.2	4858.6	4856.8
20°	4817.3	4855.0	4878.3	4912.4	4950.1	4977.0	4984.2	4984.2
22.5°	5005.7	5027.3	5030.9	5041.6	5072.2	5108.1	5124.2	5127.8
25°	5213.9	5219.3	5205.0	5205.0	5224.7	5258.8	5275.0	5276.8
27.5°	5483.2	5456.2	5420.3	5407.8	5420.3	5459.8	5479.6	5486.8
30°	5818.8	5754.2	5671.6	5626.8	5619.6	5671.6	5707.5	5712.9
32.5°	6202.9	6109.6	6000.1	5908.5	5885.2	5917.5	5960.6	5958.8
35°	6658.8	6547.5	6414.7	6298.0	6244.2	6276.5	6337.5	6344.7
37.5°	7184.7	7039.3	6886.7	6739.5	6655.2	6664.2	6728.8	6750.3
40°	7771.6	7583.1	7391.1	7193.6	7073.4	7050.0	7129.0	7141.6
42.5°	8399.7	8157.4	7915.1	7671.1	7516.7	7480.8	7572.3	7567.0
45°	9069.2	8760.5	8476.9	8207.7	8024.6	7970.8	8046.2	8046.2
47.5°	9788.9	9408.4	9071.0	8765.9	8566.7	8489.5	8561.3	8566.7
50°	10551.7	10147.9	9751.2	9412.0	9173.3	9074.6	9167.9	9182.3
52.5°	11310.9	10917.9	10517.6	10130.0	9841.0	9720.7	9828.4	9875.1
55°	12080.9	11695.0	11312.7	10934.0	10591.2	10449.4	10564.3	10623.5
57.5°	12894.0	12536.8	12172.5	11790.2	11459.9	11239.1	11361.2	11440.2
60°	13847.0	13541.9	13163.2	12741.4	12407.6	12183.2	12253.2	12323.2
62.5°	14600.8	14719.3	14398.0	13909.8	13480.9	13193.7	13261.9	13335.5
65°	14236.5	15451.6	15737.0	15243.4	14649.3	14202.4	14173.7	14211.4
67.5°	11899.6	14259.8	15981.1	16451.3	15954.1	15333.1	15218.3	15273.9
70°	7960.0	10899.9	13936.8	16198.2	16799.5	16559.0	16445.9	16480.0
72.5°	3823.0	6348.3	9455.1	12461.4	14292.1	15132.1	15401.3	15532.4
75°	1398.2	2519.9	4557.0	6867.0	8290.3	9596.9	10449.4	10797.6
77.5°	843.6	1017.7	1455.6	2191.5	2482.2	2778.4	2663.5	2720.9
80°	624.6	705.4	798.7	897.4	929.7	929.7	893.8	865.1
82.5°	437.9	490.0	534.9	588.7	603.1	576.1	473.8	376.9
85°	281.8	305.1	324.9	359.0	350.0	333.8	224.4	199.2
87.5°	129.2	147.2	154.4	170.5	163.3	156.1	111.3	93.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)