

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: P191014

Luminaire Tested: **GLEON-AF-06-LED-E1-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191014
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-06-LED-E1-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37227.2 lumens
Efficiency: N/A
Efficacy: 111.8 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): 333
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

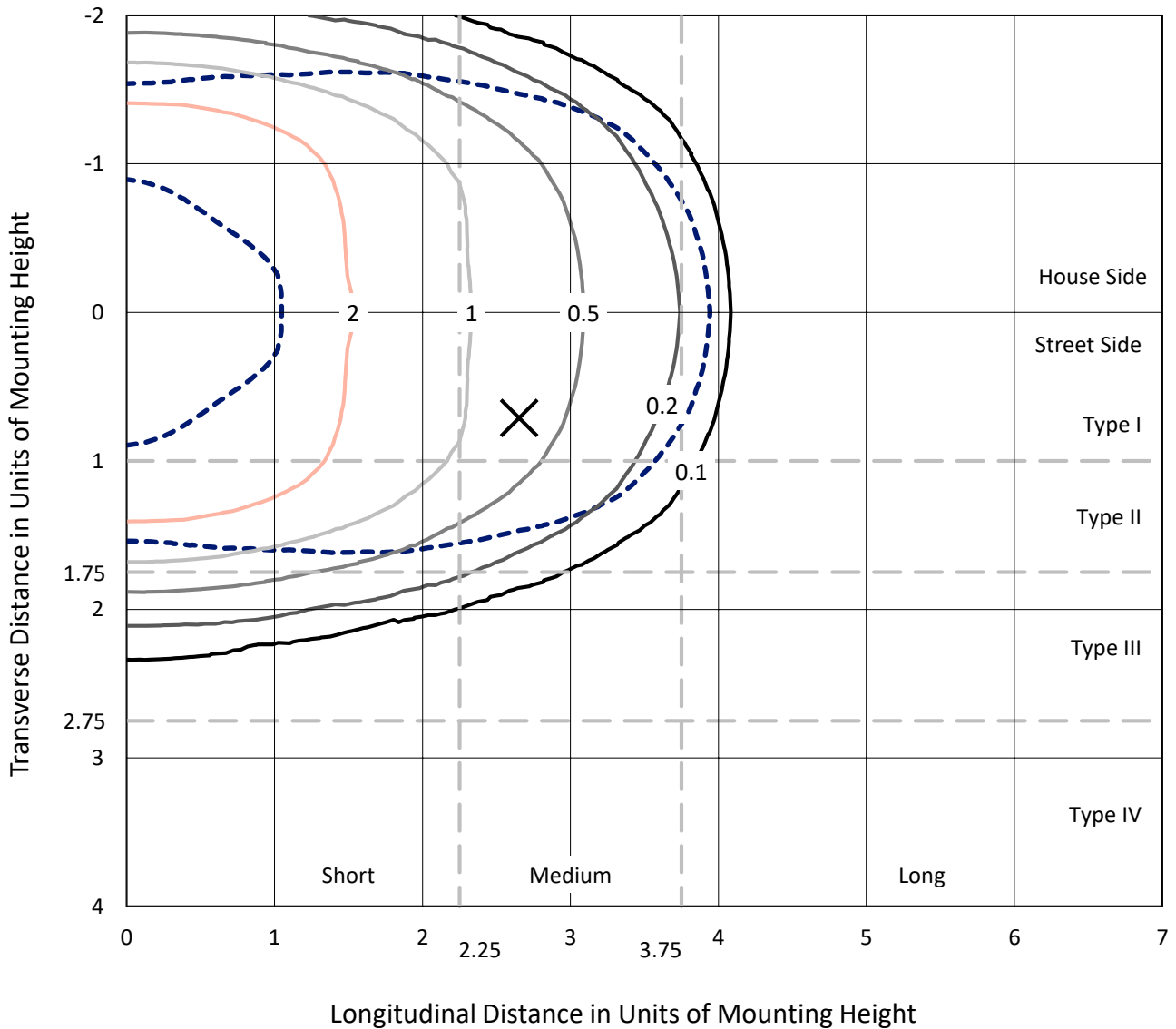


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

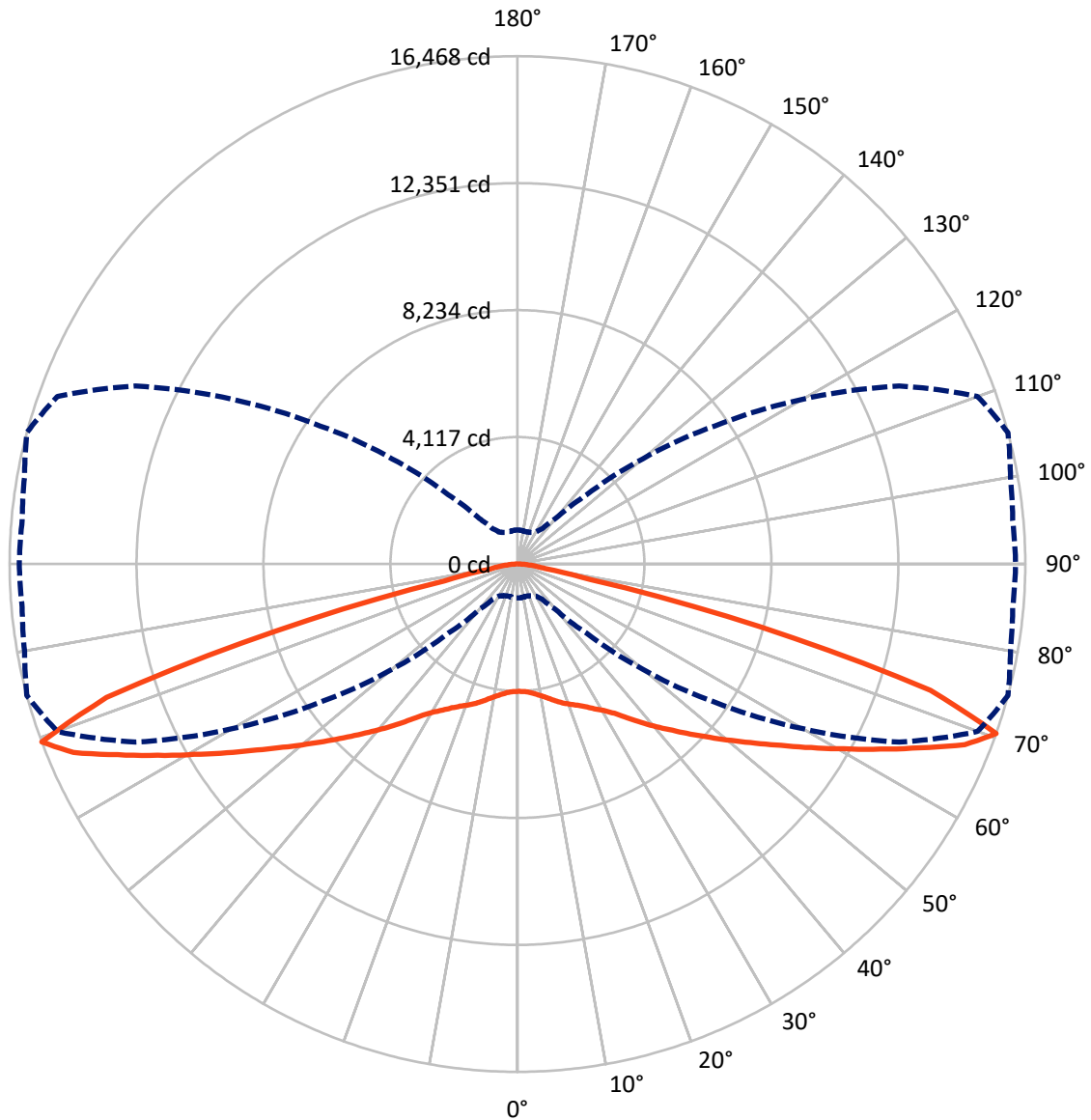


Based on 30 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Medium - Full Cutoff

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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	18613.6	0.0	18613.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18613.6	0.0	18613.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	37227.2	0.0	37227.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.0	1.1
10°-20°	1230.6	3.3
20°-30°	2316.1	6.2
30°-40°	4101.3	11.0
40°-50°	6858.8	18.4
50°-60°	9557.7	25.7
60°-70°	8863.2	23.8
70°-80°	3532.3	9.5
80°-90°	371.3	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°	37227.2	100.0
0°-180°	37227.2	100.0



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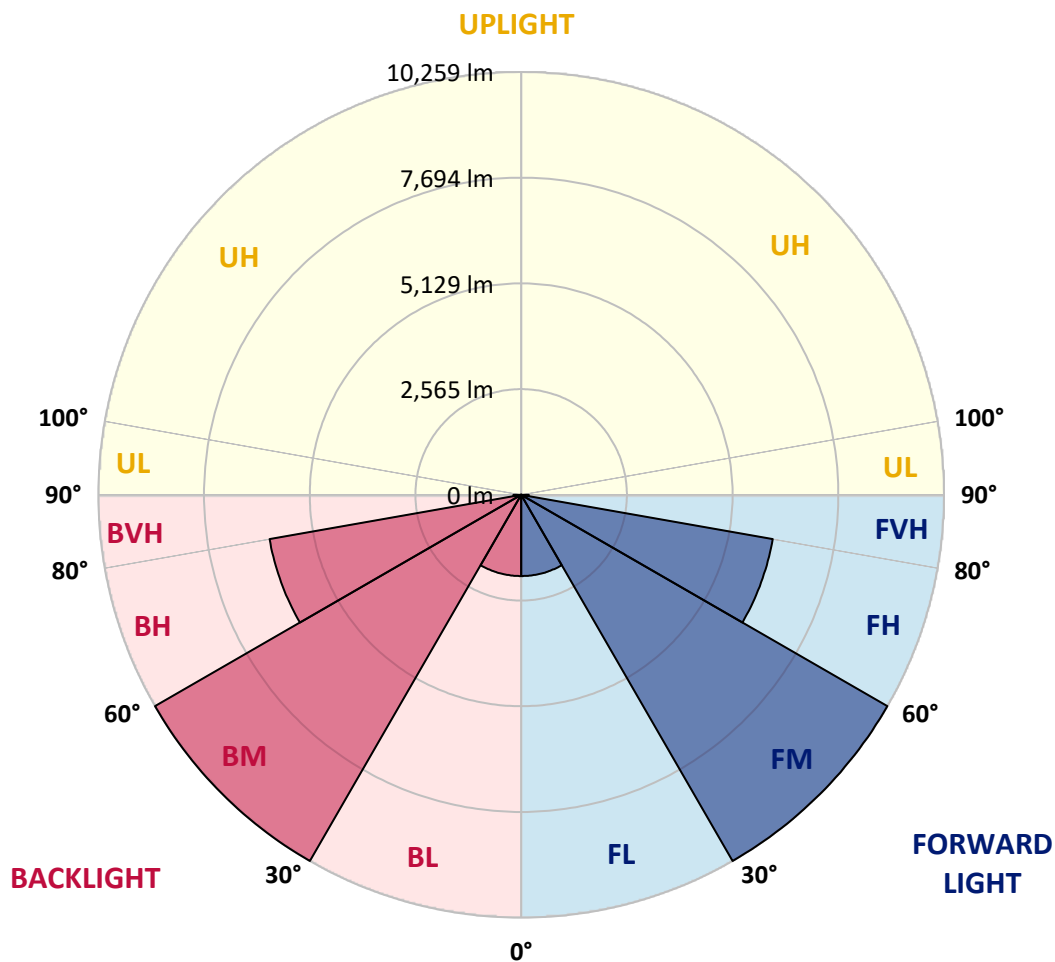
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1971.3	5.3			
FM	(30°-60°)	10258.9	27.6			
FH	(60°-80°)	6197.7	16.6			G3/7500
FVH	(80°-90°)	185.6	0.5			G2/225
BL	(0°-30°)	1971.3	5.3	B3/2500		
BM	(30°-60°)	10258.9	27.6	B5		
BH	(60°-80°)	6197.7	16.6	B5		G5
BVH	(80°-90°)	185.6	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°	4129.3	4129.3	4129.3	4129.3	4129.3	4129.3	4129.3	4129.3	4129.3	4129.3	4129.3
2.5°	4122.3	4118.8	4122.3	4120.5	4124.1	4124.1	4127.6	4134.7	4134.7	4139.9	4138.1
5°	4081.9	4080.1	4085.4	4090.7	4095.9	4106.5	4117.1	4132.9	4145.2	4154.0	4162.8
7.5°	4002.7	4002.7	4009.8	4022.0	4034.3	4057.2	4081.9	4113.5	4145.2	4171.6	4194.5
10°	3937.5	3941.1	3949.9	3971.0	3992.2	4027.4	4060.7	4106.5	4150.5	4194.5	4229.7
12.5°	3898.9	3904.2	3919.9	3951.7	3986.8	4034.3	4085.4	4143.5	4192.7	4245.5	4280.6
15°	3911.2	3914.7	3937.5	3976.3	4022.0	4081.9	4150.5	4219.1	4277.2	4333.4	4381.0
17.5°	3979.8	3985.1	4011.5	4055.5	4103.0	4173.3	4247.3	4324.6	4396.8	4460.2	4518.2
20°	4103.0	4108.3	4141.7	4189.2	4245.5	4317.7	4391.5	4472.4	4553.4	4620.3	4685.3
22.5°	4277.2	4286.0	4317.7	4365.1	4428.5	4505.9	4593.9	4680.1	4757.4	4819.0	4877.1
25°	4505.9	4525.2	4555.1	4607.9	4674.8	4745.2	4840.2	4928.2	5002.0	5060.1	5102.4
27.5°	4829.7	4856.0	4878.9	4929.9	4995.0	5061.9	5156.9	5234.2	5304.6	5361.0	5392.6
30°	5258.9	5285.3	5308.2	5357.4	5417.2	5480.6	5570.4	5638.9	5682.9	5726.9	5725.1
32.5°	5779.7	5807.9	5816.7	5869.5	5931.0	5999.6	6080.5	6119.3	6154.5	6159.7	6128.1
35°	6362.0	6376.2	6411.3	6481.7	6552.1	6608.4	6685.8	6705.1	6705.1	6678.7	6608.4
37.5°	7000.8	7009.6	7058.8	7137.9	7210.2	7268.2	7321.0	7359.6	7340.3	7284.0	7166.2
40°	7701.0	7716.8	7787.2	7857.6	7938.5	7993.0	8049.4	8056.4	8037.0	7954.4	7794.3
42.5°	8369.6	8383.7	8454.1	8564.9	8670.4	8746.1	8798.9	8809.4	8747.9	8672.2	8473.4
45°	8944.9	8981.8	9073.4	9203.6	9356.6	9463.9	9536.0	9566.0	9511.4	9412.9	9182.4
47.5°	9400.6	9437.5	9567.8	9722.5	9912.6	10086.8	10206.4	10269.7	10255.7	10181.7	9930.2
50°	9734.9	9770.1	9910.9	10100.8	10322.5	10539.0	10743.0	10894.3	10947.1	10913.7	10683.2
52.5°	9773.6	9831.7	9997.1	10252.1	10540.7	10836.3	11126.6	11383.5	11557.6	11584.0	11413.4
55°	9233.5	9291.6	9520.2	9898.5	10327.8	10809.9	11274.4	11707.2	12050.3	12226.2	12136.5
57.5°	7959.7	8063.4	8304.5	8747.9	9379.4	10100.8	10841.5	11610.4	12309.0	12775.2	12864.9
60°	6100.0	6223.1	6465.9	6937.4	7641.1	8501.5	9490.3	10626.9	11860.3	12908.9	13535.3
62.5°	3913.0	4029.1	4284.2	4694.1	5267.7	6200.2	7261.1	8610.6	10268.0	11923.6	13415.6
65°	2011.0	2074.3	2208.0	2456.1	2903.0	3599.8	4551.6	5897.6	7792.5	9835.2	11992.3
67.5°	1273.8	1286.2	1316.0	1351.2	1465.6	1706.7	2150.0	2989.3	4548.1	6678.7	9203.6
70°	1101.4	1101.4	1087.3	1082.1	1096.1	1129.5	1198.2	1393.5	1919.6	3170.4	5308.2
72.5°	1008.1	997.6	972.9	953.6	950.1	950.1	964.1	994.1	1078.5	1291.4	2077.9
75°	928.9	899.1	865.6	842.8	834.0	825.2	823.4	828.7	846.3	879.7	992.4
77.5°	832.2	793.5	754.8	731.9	721.4	709.0	698.5	686.2	677.4	687.9	737.2
80°	716.1	672.1	642.2	628.1	617.6	600.0	577.0	556.0	536.6	533.1	563.0
82.5°	577.0	526.1	527.8	533.1	513.7	489.1	464.5	441.6	408.2	390.6	408.2
85°	466.3	439.9	427.5	460.9	432.8	395.9	357.1	316.7	263.9	221.7	241.0
87.5°	181.3	181.3	271.0	417.0	374.7	306.2	262.2	223.4	139.0	107.3	109.0
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°	4129.3	4129.3	4129.3	4129.3	4129.3	4129.3	4129.3	4129.3
2.5°	4136.4	4139.9	4138.1	4136.4	4136.4	4134.7	4136.4	4136.4
5°	4168.1	4176.9	4176.9	4180.4	4180.4	4182.1	4183.9	4182.1
7.5°	4215.6	4231.4	4242.0	4254.2	4256.1	4257.8	4261.3	4257.8
10°	4263.0	4294.8	4317.7	4340.5	4351.0	4354.6	4358.1	4358.1
12.5°	4322.9	4366.9	4407.4	4447.8	4467.2	4477.8	4477.8	4484.8
15°	4421.4	4465.4	4513.0	4567.5	4600.9	4618.5	4623.7	4623.7
17.5°	4560.4	4599.1	4639.6	4692.4	4734.6	4757.4	4762.8	4761.0
20°	4722.2	4759.3	4782.1	4815.5	4852.5	4878.9	4885.9	4885.9
22.5°	4907.0	4928.2	4931.6	4942.2	4972.2	5007.3	5023.2	5026.7
25°	5111.2	5116.4	5102.4	5102.4	5121.7	5155.2	5170.9	5172.8
27.5°	5375.0	5348.6	5313.4	5301.1	5313.4	5352.2	5371.5	5378.6
30°	5704.1	5640.8	5559.7	5515.8	5508.8	5559.7	5594.9	5600.2
32.5°	6080.5	5989.1	5881.8	5792.0	5769.1	5800.8	5843.1	5841.3
35°	6527.4	6418.4	6288.2	6173.8	6121.0	6152.7	6212.5	6219.5
37.5°	7043.0	6900.4	6750.9	6606.6	6524.0	6532.8	6596.1	6617.2
40°	7618.3	7433.6	7245.4	7051.8	6933.9	6911.1	6988.4	7000.8
42.5°	8234.1	7996.6	7759.1	7519.8	7368.4	7333.2	7423.0	7417.7
45°	8890.4	8587.8	8309.7	8045.8	7866.4	7813.6	7887.5	7887.5
47.5°	9595.9	9222.9	8892.1	8593.0	8397.7	8322.1	8392.5	8397.7
50°	10343.7	9947.8	9559.0	9226.4	8992.5	8895.7	8987.1	9001.3
52.5°	11087.9	10702.6	10310.2	9930.2	9646.9	9529.0	9634.6	9680.4
55°	11842.7	11464.4	11089.6	10718.4	10382.3	10243.3	10355.9	10414.0
57.5°	12639.7	12289.5	11932.4	11557.6	11233.9	11017.5	11137.2	11214.6
60°	13573.9	13274.8	12903.6	12490.1	12162.9	11943.0	12011.6	12080.2
62.5°	14312.9	14429.0	14114.1	13635.5	13215.0	12933.5	13000.4	13072.5
65°	13955.7	15146.8	15426.6	14942.8	14360.4	13922.4	13894.1	13931.2
67.5°	11665.0	13978.6	15665.9	16126.9	15639.5	15030.7	14918.1	14972.7
70°	7803.1	10685.0	13661.9	15878.8	16468.2	16232.5	16121.6	16155.1
72.5°	3747.6	6223.1	9268.7	12215.7	14010.3	14833.7	15097.6	15226.0
75°	1370.5	2470.2	4467.2	6731.5	8126.7	9407.7	10243.3	10584.7
77.5°	827.0	997.6	1426.9	2148.3	2433.3	2723.6	2611.0	2667.2
80°	612.2	691.4	783.0	879.7	911.3	911.3	876.2	848.0
82.5°	429.3	480.3	524.3	577.0	591.2	564.8	464.5	369.5
85°	276.2	299.1	318.4	351.9	343.1	327.2	219.9	195.3
87.5°	126.6	144.2	151.3	167.2	160.1	153.0	109.0	91.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)