

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: P193547

Luminaire Tested: **GLEON-AF-09-LED-E1-RW-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193547
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-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35862 lumens
Efficiency: N/A
Efficacy: 95.9 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): 374
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

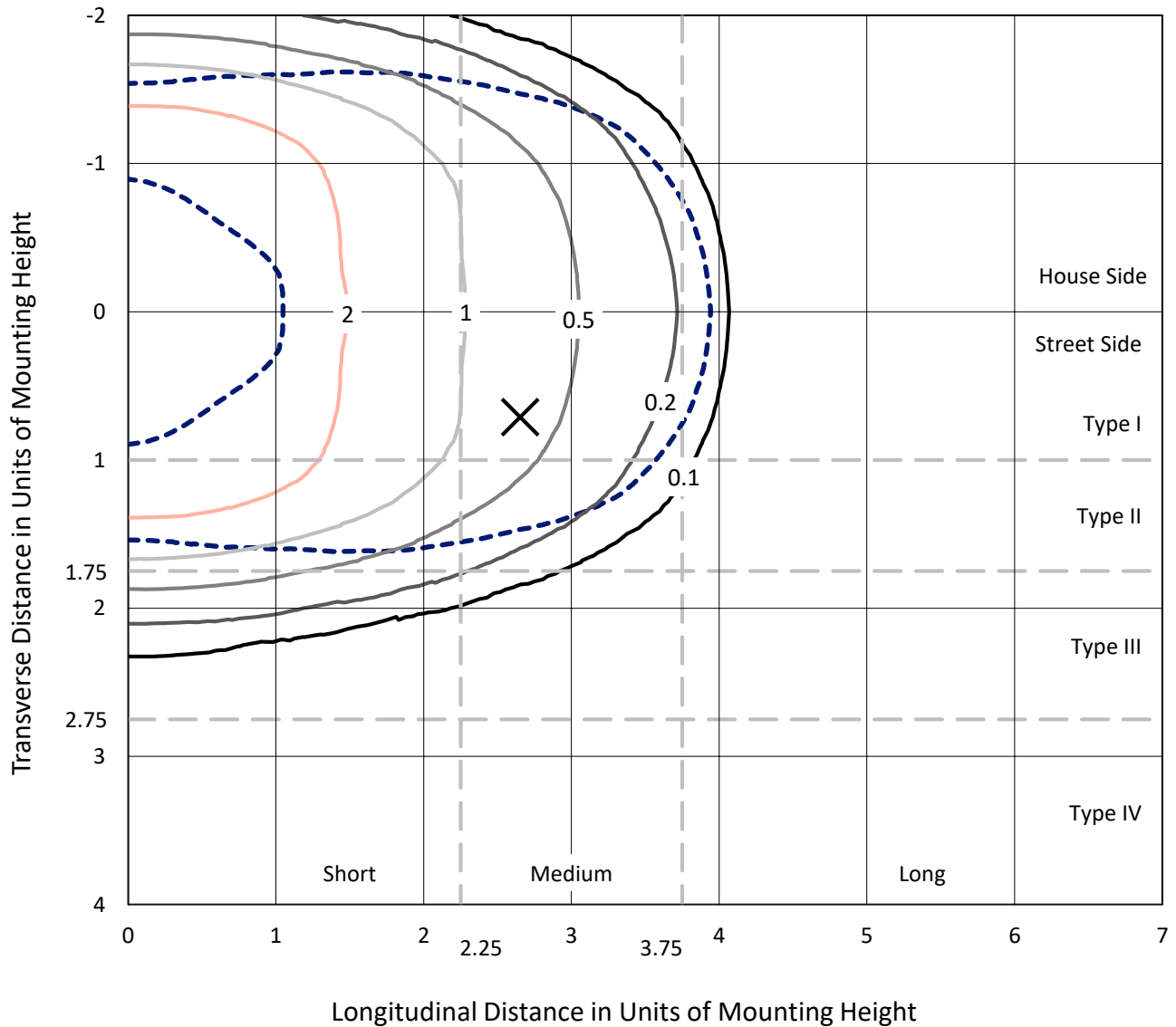


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Iso-Footcandle Lines of Horizontal Illumination

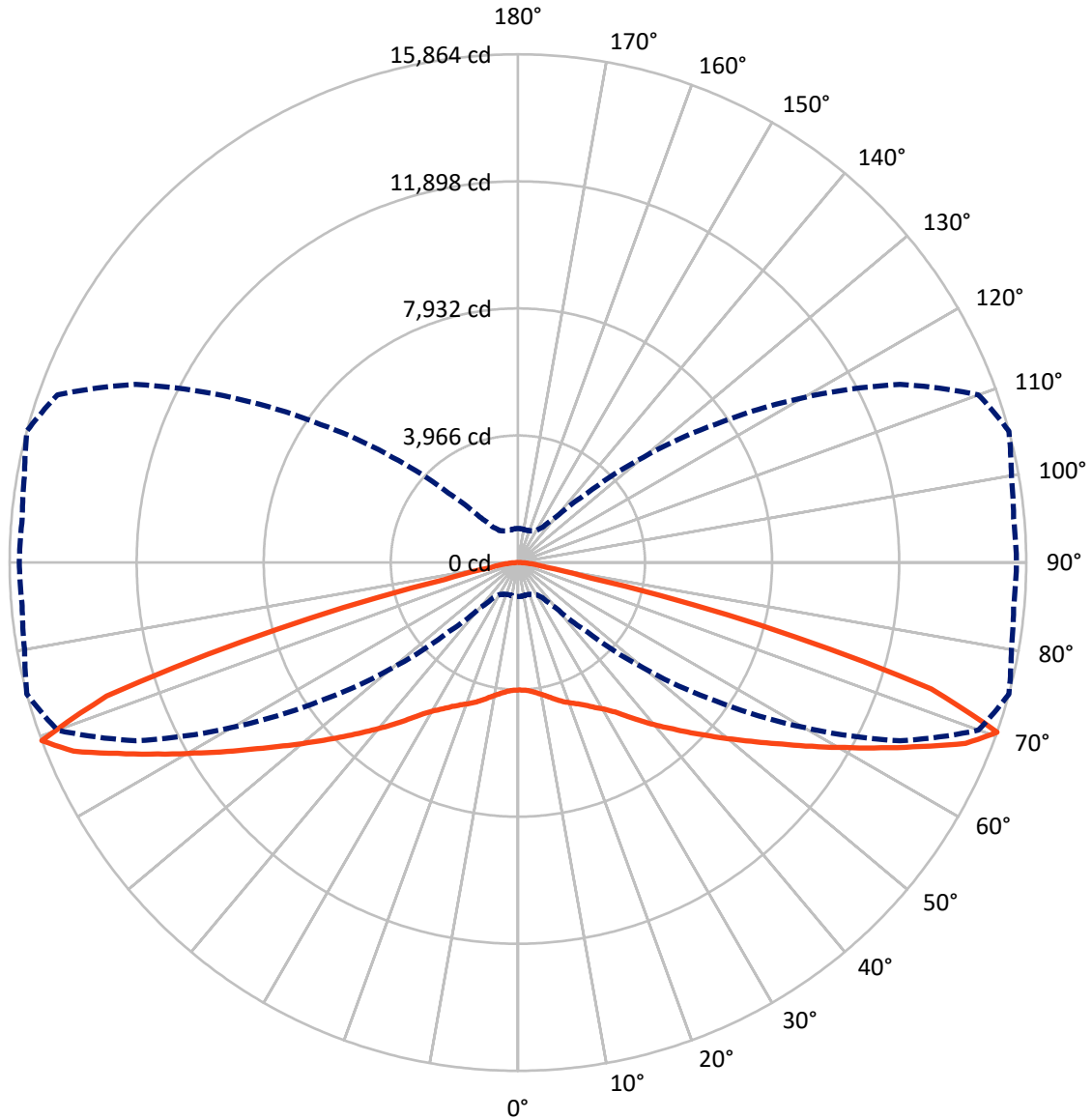
× Max cd
 - - - 1/2 Max cd



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	17931.0	0.0	17931.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17931.0	0.0	17931.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	35862.0	0.0	35862.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.5	1.1
10°-20°	1185.4	3.3
20°-30°	2231.1	6.2
30°-40°	3950.9	11.0
40°-50°	6607.2	18.4
50°-60°	9207.2	25.7
60°-70°	8538.2	23.8
70°-80°	3402.7	9.5
80°-90°	357.7	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°	35862.0	100.0
0°-180°	35862.0	100.0



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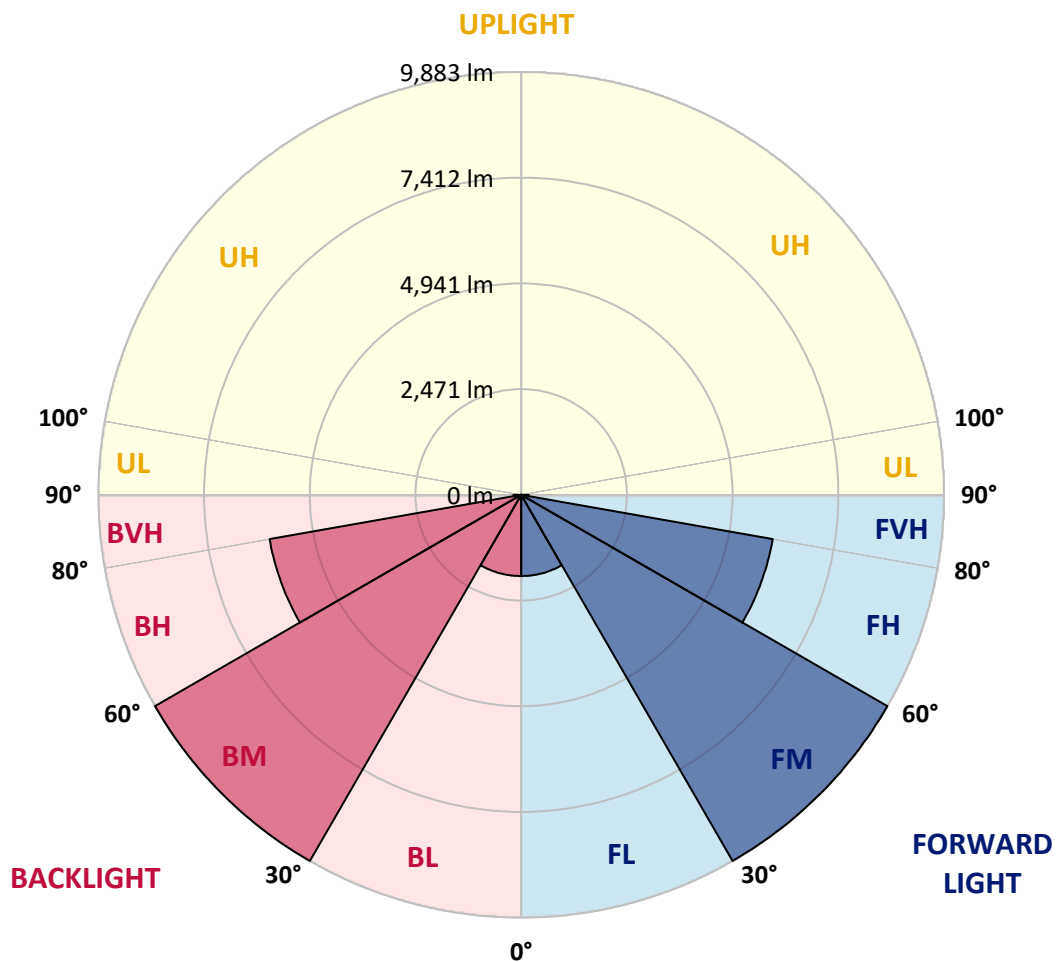
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1899.0	5.3			
FM	(30°-60°)	9882.7	27.6			
FH	(60°-80°)	5970.5	16.6			G3/7500
FVH	(80°-90°)	178.8	0.5			G2/225
BL	(0°-30°)	1899.0	5.3	B3/2500		
BM	(30°-60°)	9882.7	27.6	B5		
BH	(60°-80°)	5970.5	16.6	B5		G5
BVH	(80°-90°)	178.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9
2.5°	3971.2	3967.8	3971.2	3969.5	3972.8	3972.8	3976.2	3983.0	3983.0	3988.1	3986.4
5°	3932.2	3930.5	3935.6	3940.6	3945.7	3955.9	3966.1	3981.3	3993.2	4001.7	4010.1
7.5°	3855.9	3855.9	3862.7	3874.5	3886.4	3908.4	3932.2	3962.7	3993.2	4018.6	4040.6
10°	3793.2	3796.6	3805.1	3825.4	3845.7	3879.6	3911.8	3955.9	3998.3	4040.6	4074.5
12.5°	3755.9	3761.0	3776.2	3806.7	3840.6	3886.4	3935.6	3991.5	4038.9	4089.8	4123.7
15°	3767.8	3771.2	3793.2	3830.5	3874.5	3932.2	3998.3	4064.4	4120.3	4174.5	4220.3
17.5°	3833.9	3838.9	3864.4	3906.7	3952.5	4020.3	4091.5	4166.1	4235.6	4296.6	4352.5
20°	3952.5	3957.6	3989.8	4035.6	4089.8	4159.3	4230.5	4308.4	4386.4	4450.8	4513.5
22.5°	4120.3	4128.8	4159.3	4205.0	4266.1	4340.6	4425.4	4508.4	4583.0	4642.3	4698.3
25°	4340.6	4359.3	4388.1	4438.9	4503.4	4571.1	4662.7	4747.4	4818.6	4874.5	4915.2
27.5°	4652.5	4677.9	4700.0	4749.1	4811.8	4876.2	4967.8	5042.3	5110.1	5164.4	5194.9
30°	5066.1	5091.5	5113.5	5161.0	5218.6	5279.6	5366.1	5432.2	5474.5	5516.9	5515.2
32.5°	5567.7	5594.9	5603.3	5654.2	5713.5	5779.6	5857.6	5894.9	5928.8	5933.8	5903.3
35°	6128.8	6142.3	6176.2	6244.0	6311.8	6366.0	6440.6	6459.3	6459.3	6433.8	6366.0
37.5°	6744.0	6752.5	6799.9	6876.2	6945.7	7001.6	7052.5	7089.8	7071.1	7016.9	6903.3
40°	7418.6	7433.8	7501.6	7569.4	7647.4	7699.9	7754.2	7760.9	7742.3	7662.6	7508.4
42.5°	8062.6	8076.2	8144.0	8250.8	8352.5	8425.4	8476.2	8486.4	8427.0	8354.2	8162.6
45°	8616.9	8652.5	8740.6	8866.0	9013.5	9116.9	9186.4	9215.2	9162.6	9067.7	8845.7
47.5°	9055.9	9091.4	9216.9	9366.0	9549.1	9716.9	9832.1	9893.1	9879.6	9808.4	9566.0
50°	9377.9	9411.8	9547.4	9730.4	9944.0	10152.5	10349.1	10494.8	10545.7	10513.5	10291.4
52.5°	9415.2	9471.1	9630.4	9876.2	10154.1	10438.9	10718.6	10966.0	11133.8	11159.2	10994.8
55°	8894.8	8950.8	9171.1	9535.5	9949.1	10413.5	10860.9	11277.9	11608.4	11777.9	11691.4
57.5°	7667.7	7767.7	7999.9	8427.0	9035.5	9730.4	10444.0	11184.6	11857.5	12306.7	12393.1
60°	5876.2	5994.9	6228.8	6683.0	7361.0	8189.8	9142.3	10237.2	11425.3	12435.5	13038.9
62.5°	3769.5	3881.3	4127.1	4522.0	5074.5	5972.8	6994.9	8294.8	9891.4	11486.3	12923.6
65°	1937.3	1998.3	2127.1	2366.1	2796.6	3467.8	4384.7	5681.3	7506.7	9474.5	11552.4
67.5°	1227.1	1239.0	1267.8	1301.7	1411.9	1644.1	2071.2	2879.6	4381.3	6433.8	8866.0
70°	1061.0	1061.0	1047.4	1042.4	1055.9	1088.1	1154.2	1342.4	1849.1	3054.2	5113.5
72.5°	971.2	961.0	937.3	918.6	915.2	915.2	928.8	957.6	1039.0	1244.1	2001.7
75°	894.9	866.1	833.9	811.9	803.4	794.9	793.2	798.3	815.2	847.5	955.9
77.5°	801.7	764.4	727.1	705.1	694.9	683.0	672.9	661.0	652.5	662.7	710.2
80°	689.8	647.5	618.6	605.1	594.9	578.0	555.9	535.6	516.9	513.6	542.4
82.5°	555.9	506.8	508.5	513.6	494.9	471.2	447.5	425.4	393.2	376.3	393.2
85°	449.1	423.7	411.9	444.1	416.9	381.4	344.1	305.1	254.2	213.6	232.2
87.5°	174.6	174.6	261.0	401.7	361.0	294.9	252.5	215.3	133.9	103.4	105.1
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°	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9
2.5°	3984.7	3988.1	3986.4	3984.7	3984.7	3983.0	3984.7	3984.7
5°	4015.2	4023.7	4023.7	4027.1	4027.1	4028.8	4030.5	4028.8
7.5°	4061.0	4076.2	4086.4	4098.3	4100.0	4101.7	4105.0	4101.7
10°	4106.7	4137.3	4159.3	4181.3	4191.5	4194.9	4198.3	4198.3
12.5°	4164.4	4206.7	4245.7	4284.7	4303.4	4313.5	4313.5	4320.3
15°	4259.3	4301.7	4347.4	4400.0	4432.2	4449.1	4454.2	4454.2
17.5°	4393.2	4430.5	4469.5	4520.3	4561.0	4583.0	4588.1	4586.4
20°	4549.1	4584.7	4606.7	4638.9	4674.5	4700.0	4706.7	4706.7
22.5°	4727.1	4747.4	4750.8	4761.0	4789.8	4823.7	4838.9	4842.3
25°	4923.7	4928.8	4915.2	4915.2	4933.9	4966.1	4981.3	4983.0
27.5°	5177.9	5152.5	5118.6	5106.7	5118.6	5155.9	5174.5	5181.3
30°	5494.9	5433.9	5355.9	5313.5	5306.7	5355.9	5389.8	5394.9
32.5°	5857.6	5769.4	5666.1	5579.6	5557.6	5588.1	5628.8	5627.1
35°	6288.1	6183.0	6057.6	5947.4	5896.6	5927.1	5984.7	5991.5
37.5°	6784.7	6647.4	6503.3	6364.4	6284.7	6293.2	6354.2	6374.5
40°	7338.9	7161.0	6979.6	6793.2	6679.6	6657.6	6732.1	6744.0
42.5°	7932.1	7703.3	7474.5	7244.0	7098.2	7064.3	7150.8	7145.7
45°	8564.3	8272.8	8005.0	7750.8	7577.9	7527.1	7598.2	7598.2
47.5°	9244.0	8884.7	8566.0	8277.9	8089.8	8016.9	8084.7	8089.8
50°	9964.3	9583.0	9208.4	8888.1	8662.6	8569.4	8657.6	8671.1
52.5°	10681.3	10310.1	9932.1	9566.0	9293.1	9179.6	9281.3	9325.3
55°	11408.4	11044.0	10683.0	10325.3	10001.6	9867.7	9976.2	10032.1
57.5°	12176.2	11838.9	11494.8	11133.8	10821.9	10613.5	10728.7	10803.3
60°	13076.2	12788.0	12430.4	12032.1	11716.8	11505.0	11571.1	11637.2
62.5°	13788.0	13899.9	13596.5	13135.5	12730.4	12459.2	12523.6	12593.1
65°	13444.0	14591.4	14860.9	14394.8	13833.8	13411.7	13384.6	13420.2
67.5°	11237.2	13466.0	15091.4	15535.5	15066.0	14479.5	14371.1	14423.6
70°	7516.9	10293.1	13160.9	15296.5	15864.3	15637.2	15530.4	15562.6
72.5°	3610.1	5994.9	8928.7	11767.7	13496.5	14289.7	14543.9	14667.7
75°	1320.3	2379.6	4303.4	6484.7	7828.7	9062.6	9867.7	10196.5
77.5°	796.6	961.0	1374.6	2069.5	2344.0	2623.7	2515.2	2569.5
80°	589.8	666.1	754.2	847.5	878.0	878.0	844.1	816.9
82.5°	413.6	462.7	505.1	555.9	569.5	544.1	447.5	355.9
85°	266.1	288.1	306.8	339.0	330.5	315.3	211.9	188.1
87.5°	122.0	139.0	145.8	161.0	154.2	147.5	105.1	88.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)