

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: P192746

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192746
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-08-LED-E1-RW-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 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: 38105.3 lumens
Efficiency: N/A
Efficacy: 114.1 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): 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



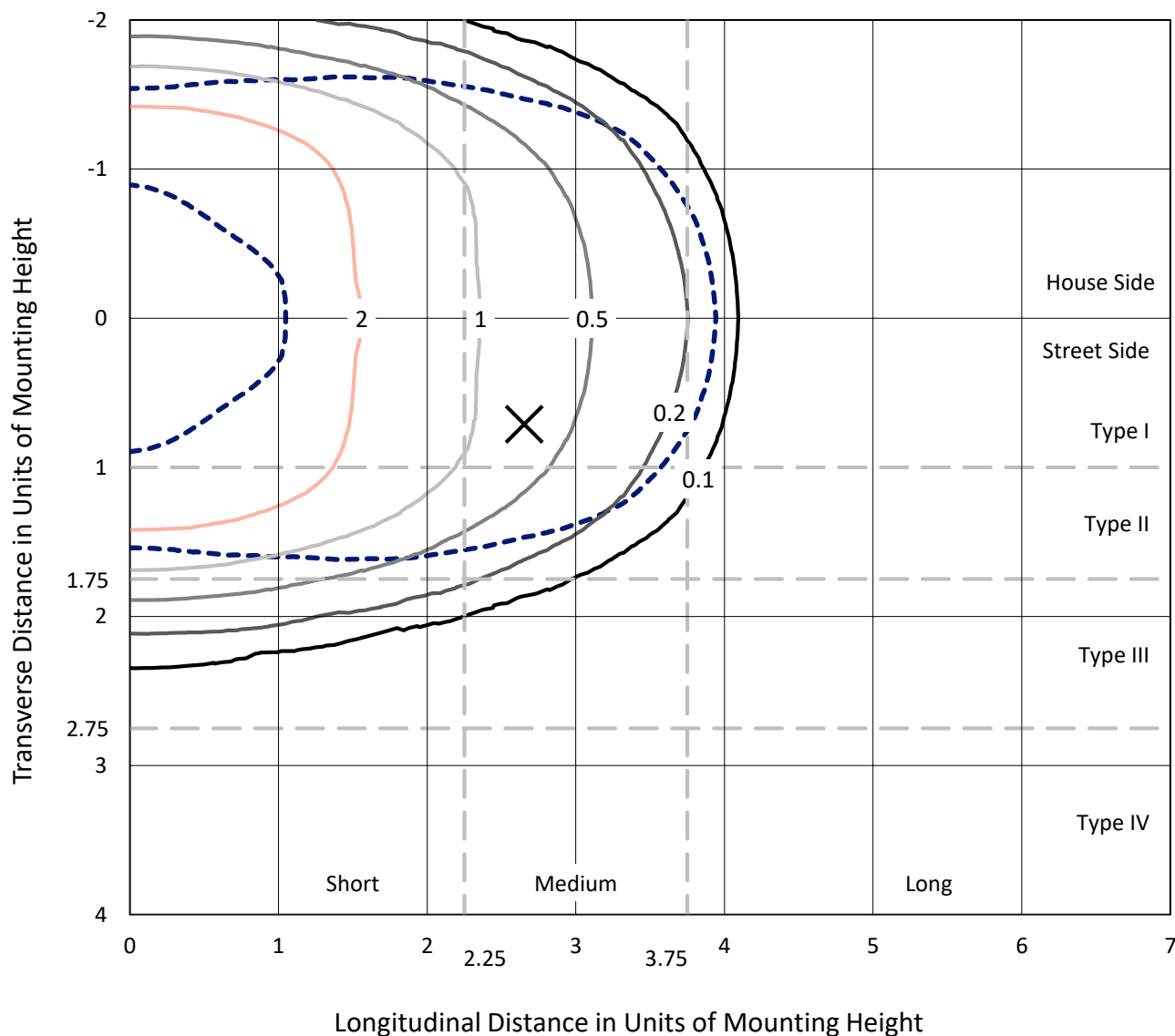
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

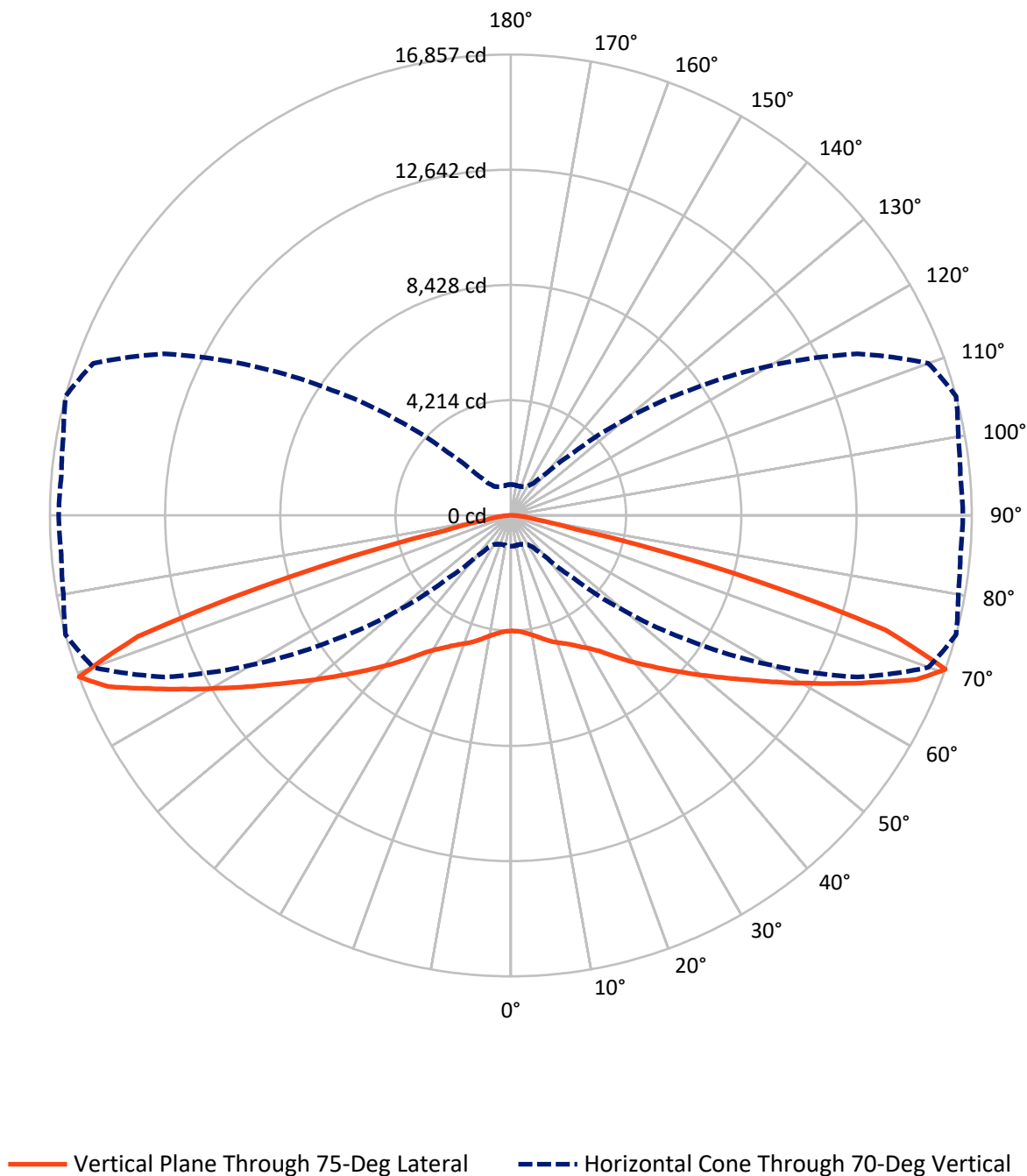


Based on 30 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19052.6	0.0	19052.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19052.6	0.0	19052.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	38105.3	0.0	38105.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.4	1.1
10°-20°	1259.6	3.3
20°-30°	2370.7	6.2
30°-40°	4198.1	11.0
40°-50°	7020.5	18.4
50°-60°	9783.1	25.7
60°-70°	9072.3	23.8
70°-80°	3615.6	9.5
80°-90°	380.0	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°	38105.3	100.0
0°-180°	38105.3	100.0

Coefficient of Utilization



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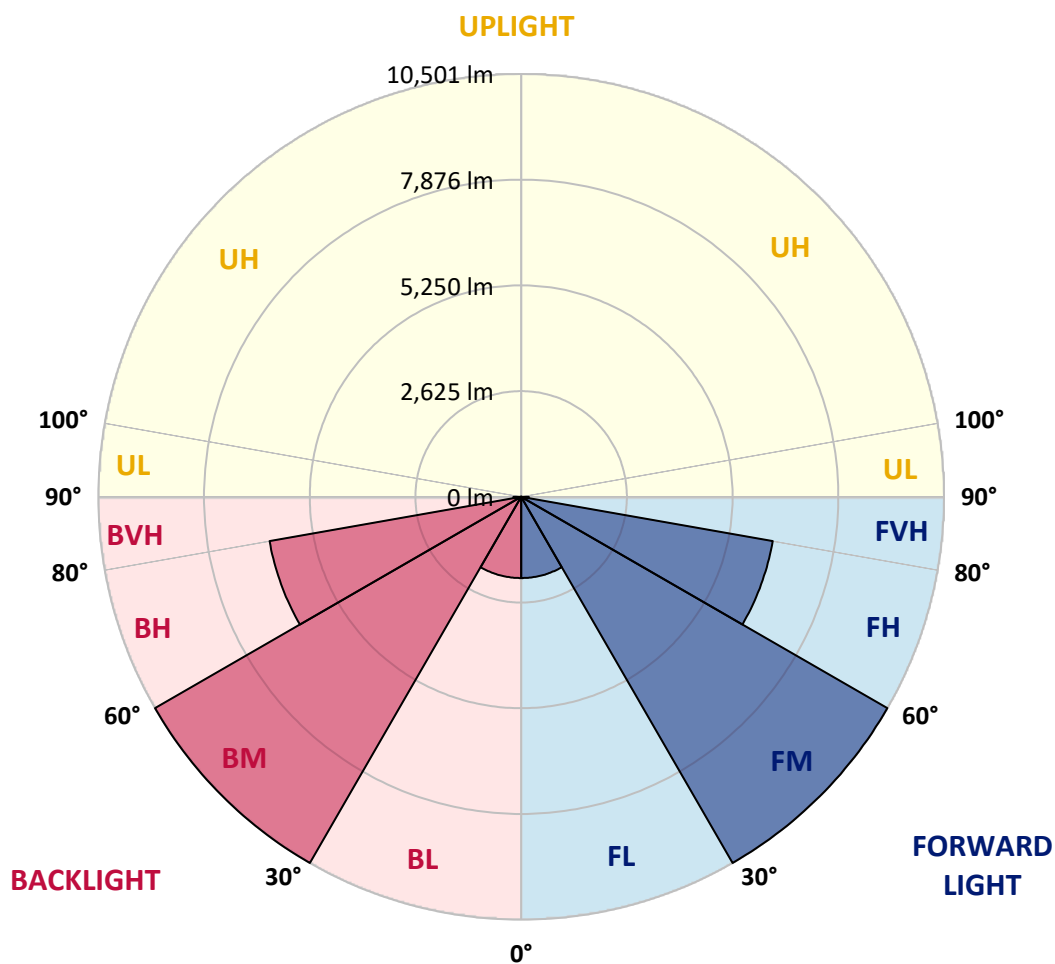
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2017.8	5.3			
FM	(30°-60°)	10500.9	27.6			
FH	(60°-80°)	6343.9	16.6			G3/7500
FVH	(80°-90°)	190.0	0.5			G2/225
BL	(0°-30°)	2017.8	5.3	B3/2500		
BM	(30°-60°)	10500.9	27.6	B5		
BH	(60°-80°)	6343.9	16.6	B5		G5
BVH	(80°-90°)	190.0	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°	4226.8	4226.8	4226.8	4226.8	4226.8	4226.8	4226.8	4226.8	4226.8	4226.8	4226.8
2.5°	4219.6	4216.0	4219.6	4217.7	4221.3	4221.3	4224.9	4232.1	4232.1	4237.6	4235.8
5°	4178.2	4176.3	4181.8	4187.2	4192.5	4203.3	4214.1	4230.4	4243.0	4252.0	4261.0
7.5°	4097.1	4097.1	4104.4	4116.9	4129.6	4153.0	4178.2	4210.6	4243.0	4270.0	4293.4
10°	4030.5	4034.1	4043.0	4064.7	4086.3	4122.4	4156.5	4203.3	4248.3	4293.4	4329.4
12.5°	3990.8	3996.2	4012.4	4044.9	4080.9	4129.6	4181.8	4241.1	4291.6	4345.6	4381.7
15°	4003.5	4007.1	4030.5	4070.1	4116.9	4178.2	4248.3	4318.6	4378.0	4435.7	4484.3
17.5°	4073.7	4079.0	4106.1	4151.1	4199.7	4271.8	4347.4	4426.6	4500.5	4565.3	4624.7
20°	4199.7	4205.2	4239.4	4288.0	4345.6	4419.4	4495.2	4578.0	4660.8	4729.2	4795.8
22.5°	4378.0	4387.1	4419.4	4468.0	4532.9	4612.2	4702.2	4790.5	4869.6	4932.7	4992.2
25°	4612.2	4631.9	4662.5	4716.6	4785.0	4857.1	4954.4	5044.4	5120.0	5179.4	5222.7
27.5°	4943.6	4970.5	4993.9	5046.1	5112.8	5181.3	5278.6	5357.7	5429.7	5487.4	5519.8
30°	5382.9	5410.0	5433.4	5483.8	5545.0	5609.9	5701.7	5771.9	5817.0	5862.0	5860.2
32.5°	5916.1	5944.8	5953.9	6007.8	6070.9	6141.1	6224.0	6263.7	6299.7	6305.1	6272.6
35°	6512.2	6526.5	6562.5	6634.6	6706.7	6764.2	6843.5	6863.3	6863.3	6836.3	6764.2
37.5°	7165.9	7174.8	7225.4	7306.3	7380.1	7439.6	7493.6	7533.2	7513.4	7455.9	7335.1
40°	7882.6	7898.8	7970.9	8042.9	8125.7	8181.6	8239.2	8246.5	8226.5	8142.0	7978.1
42.5°	8567.0	8581.4	8653.5	8766.9	8874.9	8952.3	9006.5	9017.1	8954.2	8876.8	8673.2
45°	9155.9	9193.7	9287.4	9420.7	9577.3	9687.2	9761.0	9791.6	9735.8	9634.9	9399.0
47.5°	9622.4	9660.1	9793.5	9951.9	10146.4	10324.7	10447.2	10512.0	10497.5	10421.9	10164.4
50°	9964.5	10000.5	10144.6	10339.1	10566.0	10787.5	10996.4	11151.3	11205.3	11171.1	10935.2
52.5°	10004.1	10063.6	10232.7	10494.0	10789.4	11091.9	11389.0	11652.0	11830.3	11857.3	11682.5
55°	9451.3	9510.7	9744.9	10131.9	10571.4	11064.9	11540.3	11983.3	12334.5	12514.5	12422.8
57.5°	8147.4	8253.7	8500.4	8954.2	9600.7	10339.1	11097.3	11884.2	12599.2	13076.4	13168.4
60°	6243.8	6369.9	6618.4	7101.0	7821.5	8702.1	9714.1	10877.6	12140.1	13213.4	13854.5
62.5°	4005.2	4124.1	4385.2	4804.9	5392.0	6346.5	7432.4	8813.7	10510.2	12204.8	13732.0
65°	2058.5	2123.2	2260.1	2514.0	2971.6	3684.7	4659.1	6036.7	7976.3	10067.1	12275.1
67.5°	1303.9	1316.5	1347.0	1383.1	1500.1	1746.9	2200.7	3059.8	4655.4	6836.3	9420.7
70°	1127.3	1127.3	1113.0	1107.6	1122.0	1156.2	1226.4	1426.4	1964.8	3245.2	5433.4
72.5°	1032.0	1021.1	995.9	976.1	972.5	972.5	986.9	1017.5	1103.9	1321.9	2126.8
75°	950.9	920.3	886.1	862.6	853.7	844.7	842.8	848.2	866.2	900.6	1015.7
77.5°	851.7	812.3	772.6	749.2	738.4	725.8	715.0	702.3	693.4	704.1	754.6
80°	733.0	688.0	657.3	642.9	632.2	614.1	590.6	569.1	549.2	545.6	576.4
82.5°	590.6	538.4	540.3	545.6	525.9	500.6	475.5	452.0	417.8	399.8	417.8
85°	477.3	450.2	437.6	471.9	443.0	405.3	365.6	324.2	270.1	226.9	246.7
87.5°	185.5	185.5	277.3	426.7	383.6	313.3	268.3	228.7	142.2	109.8	111.7
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°	4226.8	4226.8	4226.8	4226.8	4226.8	4226.8	4226.8	4226.8
2.5°	4234.1	4237.6	4235.8	4234.1	4234.1	4232.1	4234.1	4234.1
5°	4266.3	4275.5	4275.5	4279.0	4279.0	4280.8	4282.6	4280.8
7.5°	4314.9	4331.2	4342.1	4354.6	4356.3	4358.3	4361.8	4358.3
10°	4363.6	4396.0	4419.4	4442.9	4453.6	4457.2	4460.8	4460.8
12.5°	4424.9	4469.9	4511.4	4552.8	4572.5	4583.3	4583.3	4590.5
15°	4525.7	4570.8	4619.4	4675.2	4709.4	4727.4	4732.8	4732.8
17.5°	4668.0	4707.7	4749.1	4803.0	4846.3	4869.6	4875.0	4873.3
20°	4833.6	4871.6	4895.0	4929.1	4966.9	4993.9	5001.2	5001.2
22.5°	5022.7	5044.4	5048.0	5058.8	5089.4	5125.5	5141.6	5145.2
25°	5231.7	5237.2	5222.7	5222.7	5242.5	5276.6	5292.9	5294.7
27.5°	5501.9	5474.8	5438.8	5426.2	5438.8	5478.4	5498.3	5505.5
30°	5838.6	5773.8	5690.9	5645.9	5638.7	5690.9	5727.0	5732.3
32.5°	6224.0	6130.3	6020.5	5928.6	5905.3	5937.5	5980.9	5979.1
35°	6681.4	6569.8	6436.5	6319.4	6265.4	6297.8	6359.0	6366.2
37.5°	7209.0	7063.2	6910.1	6762.5	6677.8	6686.7	6751.6	6773.3
40°	7798.0	7609.0	7416.2	7218.1	7097.5	7074.0	7153.2	7165.9
42.5°	8428.3	8185.1	7942.0	7697.1	7542.2	7506.2	7598.1	7592.7
45°	9100.1	8790.4	8505.8	8235.6	8052.0	7997.9	8073.5	8073.5
47.5°	9822.2	9440.4	9101.9	8795.7	8595.8	8518.4	8590.4	8595.8
50°	10587.7	10182.4	9784.3	9444.1	9204.5	9105.4	9199.1	9213.5
52.5°	11349.5	10955.0	10553.4	10164.4	9874.5	9753.8	9861.8	9908.6
55°	12122.0	11734.8	11351.2	10971.2	10627.2	10484.9	10600.3	10659.7
57.5°	12937.8	12579.4	12213.9	11830.3	11498.9	11277.4	11399.8	11479.1
60°	13894.1	13587.9	13208.0	12784.8	12449.8	12224.7	12294.8	12365.1
62.5°	14650.5	14769.3	14447.1	13957.1	13526.8	13238.6	13307.0	13380.9
65°	14284.9	15504.1	15790.4	15295.2	14699.0	14250.6	14221.8	14259.7
67.5°	11940.1	14308.3	16035.4	16507.2	16008.3	15385.3	15270.0	15325.8
70°	7987.1	10937.0	13984.2	16253.3	16856.6	16615.3	16501.9	16536.1
72.5°	3836.0	6369.9	9487.2	12503.7	14340.8	15183.5	15453.7	15585.2
75°	1402.9	2528.5	4572.5	6890.3	8318.5	9629.6	10484.9	10834.3
77.5°	846.4	1021.1	1460.6	2199.0	2490.7	2787.9	2672.6	2730.2
80°	626.7	707.8	801.4	900.6	932.8	932.8	896.9	868.1
82.5°	439.4	491.6	536.7	590.6	605.1	578.1	475.5	378.1
85°	282.8	306.2	325.9	360.2	351.2	335.0	225.1	200.0
87.5°	129.7	147.7	154.9	171.1	163.9	156.7	111.7	93.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)