

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: P192747

Luminaire Tested: **GLEON-AF-09-LED-E1-RW-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192747
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-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 42506.2 lumens
Efficiency: N/A
Efficacy: 113.7 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



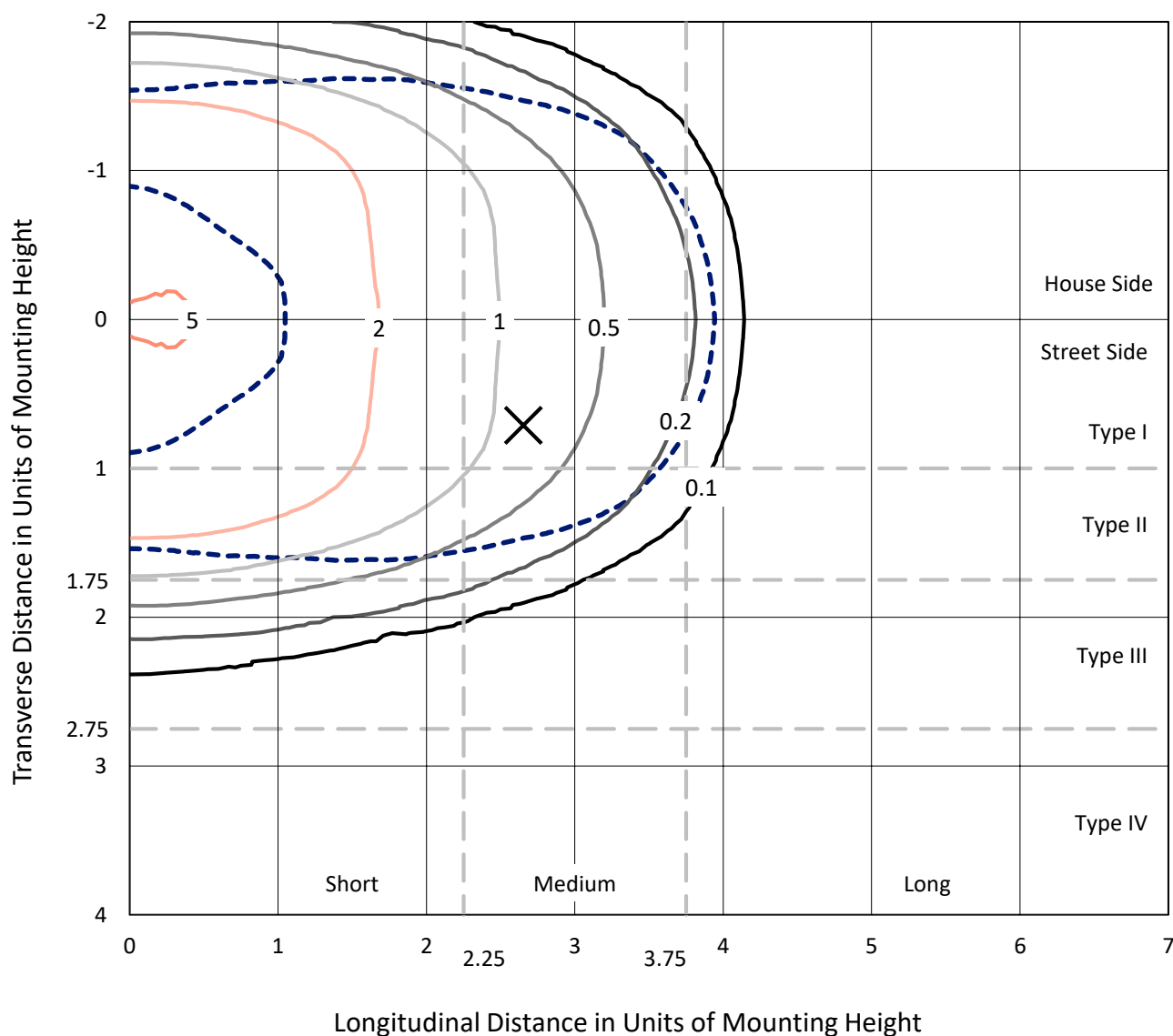
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

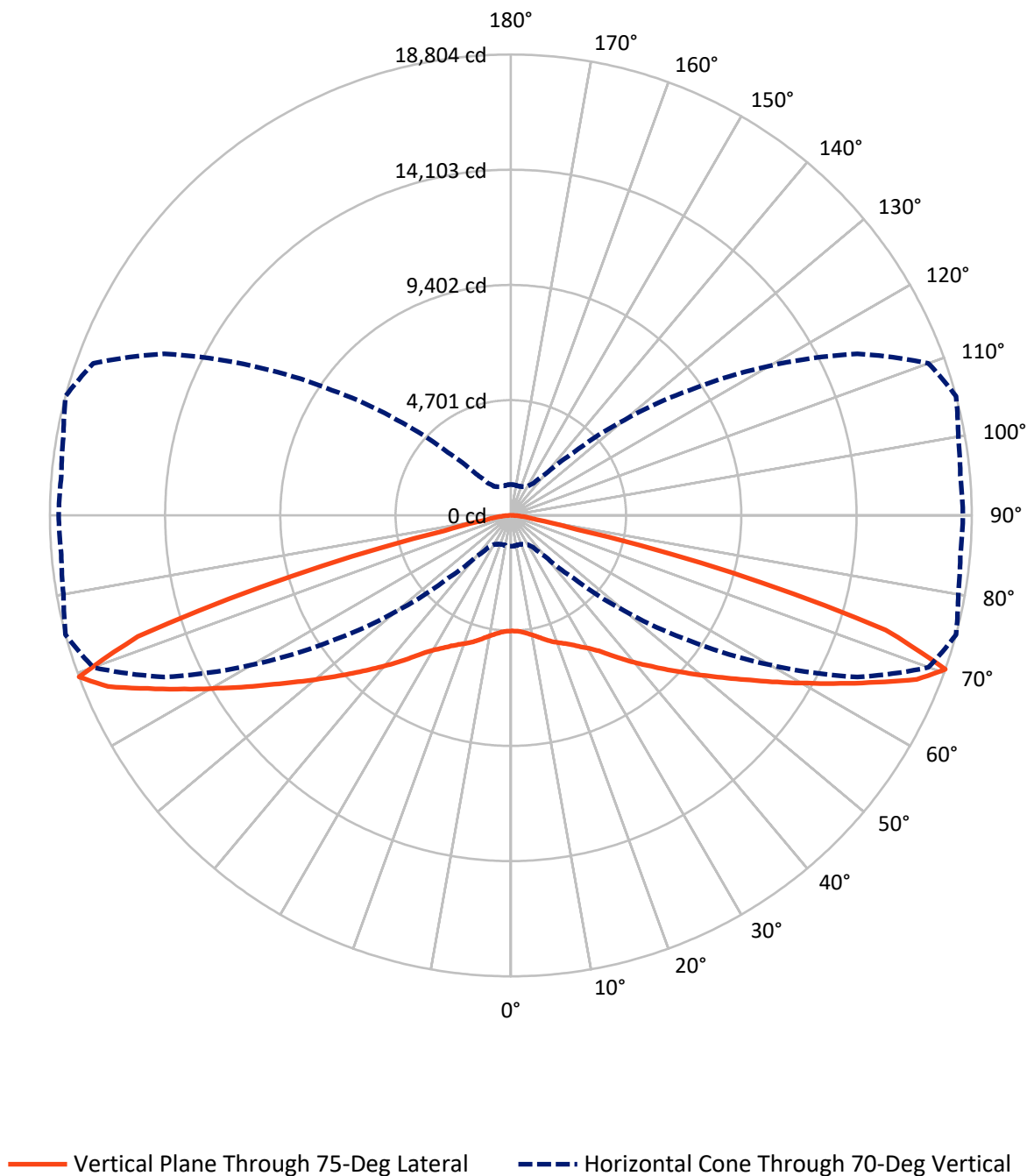


Based on 30 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21253.1	0.0	21253.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21253.1	0.0	21253.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	42506.2	0.0	42506.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.2	1.1
10°-20°	1405.1	3.3
20°-30°	2644.5	6.2
30°-40°	4682.9	11.0
40°-50°	7831.4	18.4
50°-60°	10913.0	25.7
60°-70°	10120.1	23.8
70°-80°	4033.1	9.5
80°-90°	424.0	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°	42506.2	100.0
0°-180°	42506.2	100.0

Coefficient of Utilization



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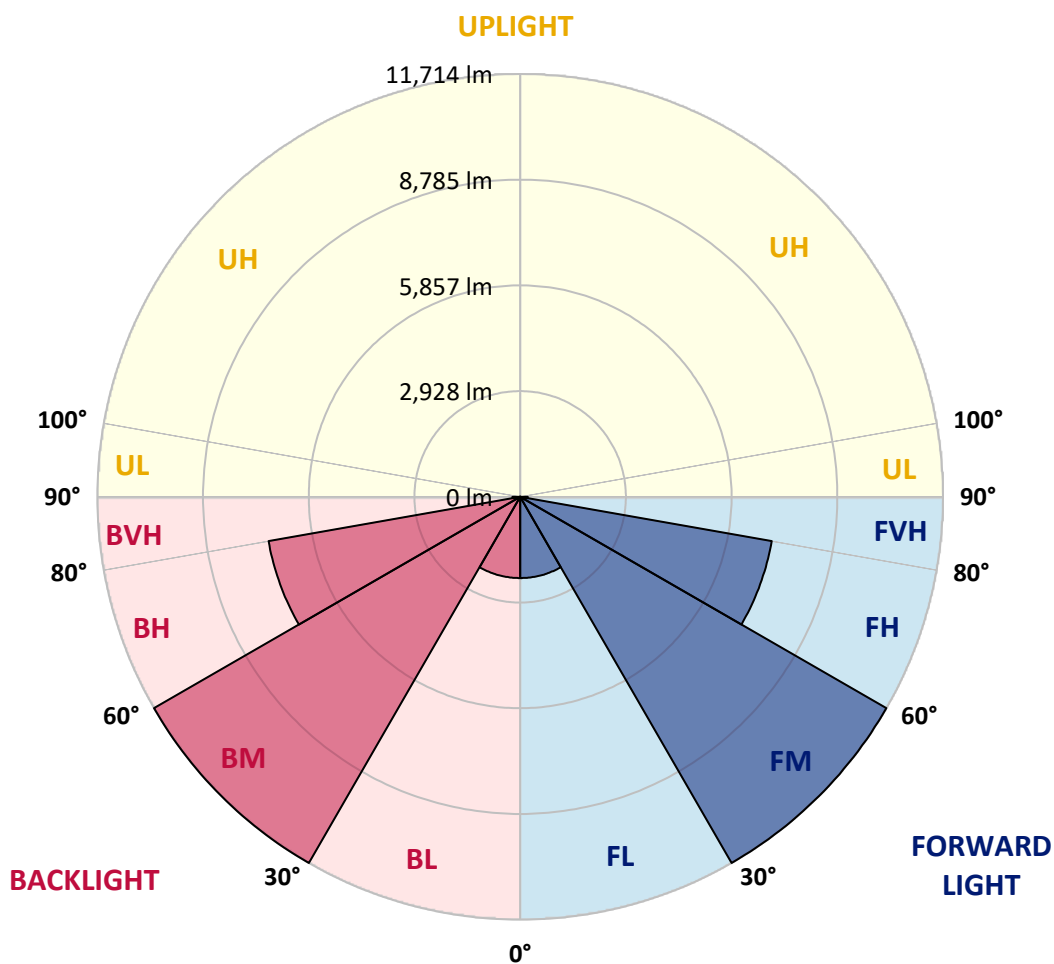
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2250.9	5.3			
FM	(30°-60°)	11713.7	27.6			
FH	(60°-80°)	7076.6	16.6			G3/7500
FVH	(80°-90°)	212.0	0.5			G2/225
BL	(0°-30°)	2250.9	5.3	B3/2500		
BM	(30°-60°)	11713.7	27.6	B5		
BH	(60°-80°)	7076.6	16.6	B5		G5
BVH	(80°-90°)	212.0	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°	4715.0	4715.0	4715.0	4715.0	4715.0	4715.0	4715.0	4715.0	4715.0	4715.0	4715.0
2.5°	4706.9	4702.8	4706.9	4704.9	4708.8	4708.8	4712.9	4721.0	4721.0	4727.0	4725.0
5°	4660.7	4658.7	4664.8	4670.8	4676.8	4688.9	4700.9	4718.9	4733.0	4743.1	4753.1
7.5°	4570.4	4570.4	4578.3	4592.3	4606.5	4632.6	4660.7	4696.8	4733.0	4763.1	4789.3
10°	4495.9	4500.0	4510.0	4534.2	4558.2	4598.4	4636.6	4688.9	4739.0	4789.3	4829.5
12.5°	4451.8	4457.8	4476.0	4512.1	4552.2	4606.5	4664.8	4731.0	4787.3	4847.5	4887.7
15°	4465.9	4469.8	4495.9	4540.2	4592.3	4660.7	4739.0	4817.3	4883.7	4948.0	5002.2
17.5°	4544.2	4550.2	4580.3	4630.5	4684.8	4765.2	4849.6	4938.0	5020.3	5092.6	5158.9
20°	4684.8	4690.8	4729.0	4783.3	4847.5	4929.9	5014.2	5106.7	5199.1	5275.4	5349.8
22.5°	4883.7	4893.7	4929.9	4984.1	5056.4	5144.8	5245.3	5343.8	5432.2	5502.4	5568.7
25°	5144.8	5167.0	5201.1	5261.4	5337.7	5418.0	5526.6	5627.0	5711.3	5777.6	5825.8
27.5°	5514.6	5544.6	5570.7	5629.0	5703.4	5779.7	5888.1	5976.5	6056.9	6121.1	6157.3
30°	6004.7	6034.8	6060.9	6117.2	6185.5	6257.9	6360.2	6438.5	6488.8	6539.0	6537.0
32.5°	6599.3	6631.5	6641.5	6701.8	6772.1	6850.4	6942.8	6987.0	7027.2	7033.2	6997.1
35°	7264.2	7280.3	7320.5	7400.9	7481.2	7545.5	7633.8	7656.1	7656.1	7625.9	7545.5
37.5°	7993.5	8003.6	8059.7	8150.2	8232.5	8298.8	8359.1	8403.3	8381.2	8317.0	8182.3
40°	8793.0	8811.1	8891.5	8971.9	9064.2	9126.5	9190.8	9198.9	9176.6	9082.2	8899.5
42.5°	9556.5	9572.5	9652.8	9779.4	9900.0	9986.3	10046.6	10058.6	9988.4	9901.9	9674.9
45°	10213.3	10255.5	10360.0	10508.7	10683.5	10806.0	10888.3	10922.5	10860.3	10747.8	10484.5
47.5°	10733.6	10775.8	10924.5	11101.3	11318.2	11517.1	11653.7	11726.0	11710.0	11625.6	11338.4
50°	11115.4	11155.5	11316.2	11533.2	11786.4	12033.4	12266.4	12439.1	12499.5	12461.3	12198.1
52.5°	11159.5	11225.9	11414.7	11705.9	12035.5	12372.9	12704.4	12997.7	13196.6	13226.7	13031.9
55°	10542.8	10609.1	10870.2	11302.3	11792.4	12342.8	12873.2	13367.4	13759.1	13959.9	13857.6
57.5°	9088.3	9206.8	9482.1	9988.4	10709.6	11533.2	12379.0	13256.9	14054.3	14586.7	14689.3
60°	6964.9	7105.5	7382.7	7921.2	8724.7	9707.1	10836.2	12133.9	13542.1	14739.4	15454.6
62.5°	4467.8	4600.5	4891.7	5359.8	6014.7	7079.5	8290.8	9831.7	11724.1	13614.5	15318.0
65°	2296.2	2368.5	2521.1	2804.4	3314.7	4110.3	5197.0	6733.8	8897.5	11229.8	13692.8
67.5°	1454.5	1468.6	1502.7	1542.8	1673.5	1948.6	2454.9	3413.2	5193.1	7625.9	10508.7
70°	1257.6	1257.6	1241.5	1235.5	1251.6	1289.7	1368.0	1591.1	2191.7	3620.1	6060.9
72.5°	1151.1	1139.0	1110.9	1088.9	1084.8	1084.8	1100.9	1134.9	1231.5	1474.6	2372.6
75°	1060.7	1026.6	988.4	962.2	952.2	942.2	940.1	946.1	966.3	1004.4	1133.0
77.5°	950.2	906.0	861.8	835.8	823.7	809.6	797.6	783.5	773.4	785.5	841.8
80°	817.6	767.4	733.2	717.2	705.2	685.0	659.0	634.8	612.7	608.7	642.9
82.5°	659.0	600.7	602.7	608.7	586.6	558.6	530.4	504.2	466.1	446.0	466.1
85°	532.3	502.3	488.2	526.3	494.2	452.0	407.9	361.6	301.3	253.2	275.3
87.5°	206.9	206.9	309.4	476.2	427.9	349.5	299.4	255.1	158.8	122.6	124.5
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°	4715.0	4715.0	4715.0	4715.0	4715.0	4715.0	4715.0	4715.0
2.5°	4722.9	4727.0	4725.0	4722.9	4722.9	4721.0	4722.9	4722.9
5°	4759.2	4769.1	4769.1	4773.2	4773.2	4775.1	4777.3	4775.1
7.5°	4813.4	4831.5	4843.5	4857.5	4859.6	4861.6	4865.7	4861.6
10°	4867.6	4903.8	4929.9	4956.0	4968.0	4972.1	4976.1	4976.1
12.5°	4935.9	4986.1	5032.4	5078.6	5100.7	5112.7	5112.7	5120.8
15°	5048.5	5098.6	5152.8	5215.2	5253.3	5273.4	5279.4	5279.4
17.5°	5207.1	5251.3	5297.6	5357.7	5406.0	5432.2	5438.2	5436.0
20°	5392.0	5434.1	5460.2	5498.4	5540.6	5570.7	5578.8	5578.8
22.5°	5603.0	5627.0	5631.0	5643.0	5677.2	5717.4	5735.4	5739.5
25°	5835.9	5842.0	5825.8	5825.8	5848.0	5886.2	5904.3	5906.2
27.5°	6137.2	6107.1	6066.9	6052.9	6066.9	6111.1	6133.3	6141.3
30°	6513.0	6440.7	6348.2	6297.9	6289.9	6348.2	6388.4	6394.4
32.5°	6942.8	6838.3	6715.8	6613.4	6587.2	6623.4	6671.6	6669.6
35°	7453.1	7328.6	7179.9	7049.3	6989.0	7025.2	7093.4	7101.6
37.5°	8041.7	7879.0	7708.2	7543.5	7449.1	7459.1	7531.5	7555.5
40°	8698.5	8487.7	8272.7	8051.8	7917.2	7891.0	7979.4	7993.5
42.5°	9401.8	9130.6	8859.3	8586.1	8413.4	8373.2	8475.7	8469.6
45°	10151.1	9805.6	9488.1	9186.7	8981.8	8921.6	9006.0	9006.0
47.5°	10956.6	10530.7	10153.0	9811.6	9588.6	9502.2	9582.6	9588.6
50°	11810.4	11358.4	10914.5	10534.8	10267.5	10157.1	10261.5	10277.6
52.5°	12660.2	12220.2	11772.2	11338.4	11014.9	10880.2	11000.9	11053.1
55°	13522.0	13090.2	12662.2	12238.3	11854.6	11695.8	11824.5	11890.8
57.5°	14432.0	14032.2	13624.5	13196.6	12826.9	12579.9	12716.4	12804.8
60°	15498.8	15157.3	14733.4	14261.3	13887.6	13636.5	13714.9	13793.2
62.5°	16342.6	16475.1	16115.5	15569.1	15089.0	14767.6	14843.9	14926.2
65°	15934.7	17294.7	17614.2	17061.7	16396.7	15896.5	15864.5	15906.6
67.5°	13319.1	15960.8	17887.4	18413.8	17857.3	17162.2	17033.6	17095.9
70°	8909.5	12200.1	15599.3	18130.5	18803.5	18534.3	18407.7	18445.9
72.5°	4279.0	7105.5	10583.0	13947.9	15996.9	16937.2	17238.5	17385.3
75°	1564.9	2820.5	5100.7	7686.2	9279.2	10741.8	11695.8	12085.6
77.5°	944.2	1139.0	1629.3	2452.9	2778.4	3109.8	2981.2	3045.5
80°	699.1	789.5	894.0	1004.4	1040.5	1040.5	1000.5	968.2
82.5°	490.1	548.5	598.6	659.0	675.0	644.8	530.4	421.8
85°	315.4	341.6	363.7	401.7	391.7	373.6	251.1	223.0
87.5°	144.7	164.8	172.7	190.8	182.8	174.9	124.5	104.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)