

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: P192748

Luminaire Tested: **GLEON-AF-10-LED-E1-RW-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192748
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-10-LED-E1-RW-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 47060.1 lumens
Efficiency: N/A
Efficacy: 112.3 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): 419
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



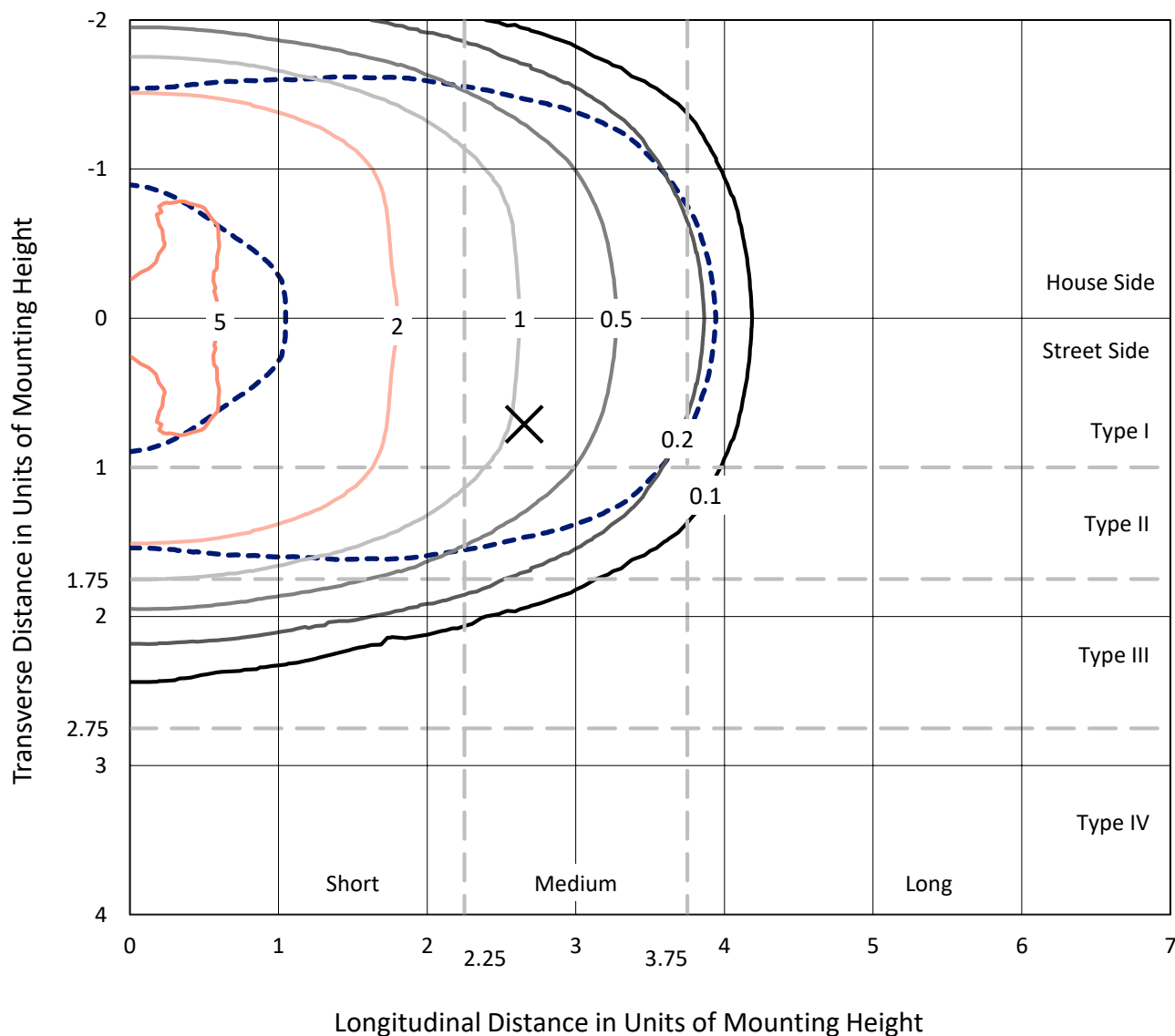
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

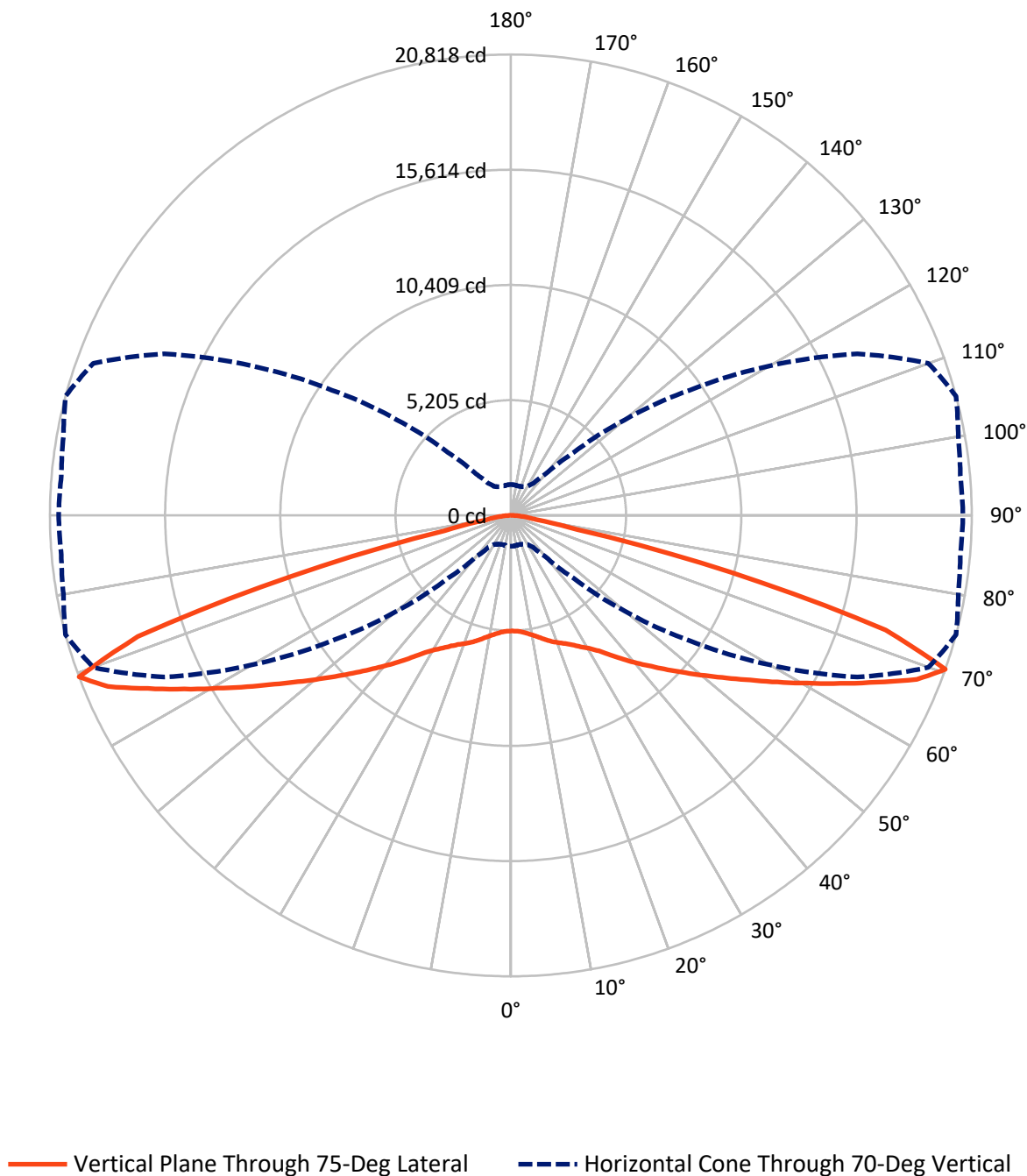


Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23530.1	0.0	23530.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23530.1	0.0	23530.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	47060.1	0.0	47060.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	500.6	1.1
10°-20°	1555.6	3.3
20°-30°	2927.8	6.2
30°-40°	5184.6	11.0
40°-50°	8670.4	18.4
50°-60°	12082.2	25.7
60°-70°	11204.3	23.8
70°-80°	4465.2	9.5
80°-90°	469.4	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°	47060.1	100.0
0°-180°	47060.1	100.0

Coefficient of Utilization



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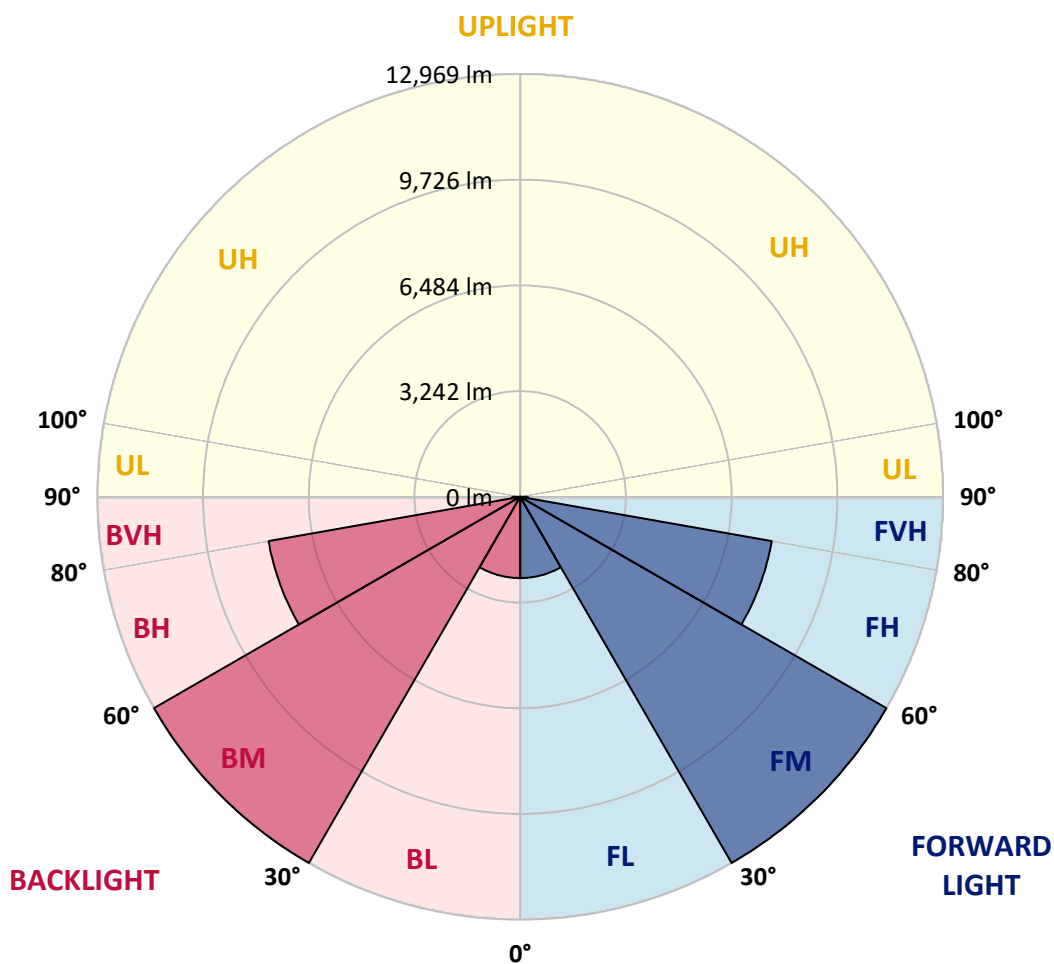
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2492.0	5.3			
FM	(30°-60°)	12968.6	27.6			
FH	(60°-80°)	7834.8	16.6			G4/12000
FVH	(80°-90°)	234.7	0.5			G3/500
BL	(0°-30°)	2492.0	5.3	B3/2500		
BM	(30°-60°)	12968.6	27.6	B5		
BH	(60°-80°)	7834.8	16.6	B5		G5
BVH	(80°-90°)	234.7	0.5			G3/500
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°	5220.1	5220.1	5220.1	5220.1	5220.1	5220.1	5220.1	5220.1	5220.1	5220.1	5220.1
2.5°	5211.1	5206.8	5211.1	5208.9	5213.5	5213.5	5217.9	5226.8	5226.8	5233.4	5231.3
5°	5160.0	5157.8	5164.4	5171.1	5177.8	5191.1	5204.4	5224.6	5240.1	5251.2	5262.4
7.5°	5059.9	5059.9	5068.9	5084.4	5100.0	5128.8	5160.0	5200.0	5240.1	5273.4	5302.4
10°	4977.7	4982.1	4993.2	5019.9	5046.5	5091.1	5133.3	5191.1	5246.7	5302.4	5346.8
12.5°	4928.6	4935.3	4955.4	4995.5	5039.9	5100.0	5164.4	5237.9	5300.1	5366.9	5411.4
15°	4944.3	4948.7	4977.7	5026.6	5084.4	5160.0	5246.7	5333.5	5406.9	5478.0	5538.2
17.5°	5031.1	5037.7	5071.0	5126.7	5186.7	5275.7	5369.1	5466.9	5558.1	5638.3	5711.6
20°	5186.7	5193.4	5235.6	5295.7	5366.9	5458.0	5551.5	5653.7	5756.1	5840.6	5923.0
22.5°	5406.9	5418.0	5458.0	5518.1	5598.2	5696.0	5807.2	5916.2	6014.0	6092.0	6165.3
25°	5696.0	5720.5	5758.3	5825.0	5909.5	5998.6	6118.6	6229.9	6323.3	6396.7	6450.0
27.5°	6105.3	6138.6	6167.5	6232.0	6314.3	6398.9	6519.0	6616.8	6705.8	6777.0	6817.0
30°	6648.0	6681.3	6710.2	6772.6	6848.2	6928.2	7041.6	7128.4	7184.1	7239.6	7237.4
32.5°	7306.2	7341.9	7353.0	7419.8	7497.6	7584.3	7686.6	7735.5	7780.1	7786.7	7746.7
35°	8042.5	8060.3	8104.8	8193.8	8282.7	8353.9	8451.8	8476.3	8476.3	8442.9	8353.9
37.5°	8849.9	8861.0	8923.3	9023.4	9114.5	9187.9	9254.7	9303.7	9279.2	9208.0	9058.9
40°	9735.1	9755.1	9844.0	9933.0	10035.4	10104.3	10175.5	10184.4	10159.9	10055.3	9853.0
42.5°	10580.2	10598.0	10686.9	10827.1	10960.6	11056.3	11122.9	11136.2	11058.4	10962.8	10711.4
45°	11307.6	11354.2	11469.9	11634.5	11828.0	11963.7	12054.9	12092.7	12023.8	11899.2	11607.8
47.5°	11883.6	11930.3	12094.9	12290.6	12530.8	12751.0	12902.3	12982.3	12964.4	12871.2	12553.2
50°	12306.2	12350.6	12528.6	12768.8	13049.1	13322.6	13580.6	13771.9	13838.7	13796.3	13505.0
52.5°	12355.1	12428.6	12637.6	12960.2	13324.8	13698.5	14065.5	14390.2	14610.3	14643.8	14428.0
55°	11672.2	11745.7	12034.8	12513.0	13055.7	13665.2	14252.4	14799.5	15233.2	15455.6	15342.1
57.5°	10062.0	10193.3	10497.9	11058.4	11857.0	12768.8	13705.2	14677.2	15560.1	16149.5	16262.9
60°	7711.1	7866.7	8173.6	8769.8	9659.5	10747.1	11997.0	13433.9	14993.0	16318.5	17110.3
62.5°	4946.5	5093.3	5415.8	5934.0	6659.2	7837.9	9179.1	10885.0	12980.1	15073.1	16959.1
65°	2542.3	2622.2	2791.3	3104.9	3669.8	4550.6	5753.8	7455.3	9850.7	12432.9	15159.7
67.5°	1610.3	1625.9	1663.7	1708.2	1852.7	2157.5	2718.0	3778.8	5749.4	8442.9	11634.5
70°	1392.3	1392.3	1374.5	1367.8	1385.6	1427.9	1514.7	1761.5	2426.5	4007.9	6710.2
72.5°	1274.4	1261.1	1229.9	1205.4	1201.1	1201.1	1218.8	1256.6	1363.4	1632.6	2626.7
75°	1174.3	1136.6	1094.2	1065.4	1054.3	1043.1	1040.9	1047.6	1069.8	1112.0	1254.4
77.5°	1052.0	1003.1	954.2	925.2	911.9	896.4	883.1	867.4	856.3	869.6	931.9
80°	905.2	849.6	811.8	794.0	780.6	758.5	729.6	702.9	678.4	673.9	711.8
82.5°	729.6	665.1	667.2	673.9	649.4	618.3	587.2	558.4	516.0	493.8	516.0
85°	589.4	556.0	540.5	582.7	547.2	500.4	451.5	400.3	333.6	280.2	304.8
87.5°	229.1	229.1	342.5	527.1	473.7	387.0	331.4	282.4	175.7	135.7	137.8
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°	5220.1	5220.1	5220.1	5220.1	5220.1	5220.1	5220.1	5220.1
2.5°	5228.9	5233.4	5231.3	5228.9	5228.9	5226.8	5228.9	5228.9
5°	5269.0	5280.2	5280.2	5284.6	5284.6	5286.8	5289.0	5286.8
7.5°	5329.0	5349.2	5362.5	5378.0	5380.3	5382.4	5386.9	5382.4
10°	5389.1	5429.1	5458.0	5487.0	5500.3	5504.8	5509.2	5509.2
12.5°	5464.7	5520.4	5571.4	5622.6	5647.1	5660.4	5660.4	5669.4
15°	5589.2	5644.9	5705.0	5774.0	5816.1	5838.4	5845.1	5845.1
17.5°	5764.9	5813.9	5865.0	5931.8	5985.2	6014.0	6020.7	6018.5
20°	5969.6	6016.4	6045.2	6087.5	6134.2	6167.5	6176.4	6176.4
22.5°	6203.0	6229.9	6234.3	6247.7	6285.4	6329.9	6349.9	6354.4
25°	6461.1	6467.8	6450.0	6450.0	6474.4	6516.8	6536.8	6538.9
27.5°	6794.8	6761.4	6716.9	6701.3	6716.9	6765.9	6790.4	6799.2
30°	7210.7	7130.6	7028.3	6972.7	6963.7	7028.3	7072.8	7079.5
32.5°	7686.6	7571.0	7435.3	7321.9	7292.9	7333.1	7386.4	7384.2
35°	8251.6	8113.7	7949.0	7804.5	7737.8	7777.8	7853.4	7862.3
37.5°	8903.2	8723.0	8534.0	8351.7	8247.1	8258.3	8338.3	8365.0
40°	9630.5	9397.1	9158.9	8914.4	8765.4	8736.5	8834.2	8849.9
42.5°	10409.0	10108.7	9808.5	9506.0	9314.7	9270.2	9383.6	9376.9
45°	11238.6	10856.0	10504.6	10171.1	9944.1	9877.5	9970.9	9970.9
47.5°	12130.5	11658.9	11240.8	10862.8	10615.8	10520.2	10609.2	10615.8
50°	13075.7	12575.3	12083.7	11663.4	11367.6	11245.3	11360.9	11378.7
52.5°	14016.6	13529.5	13033.5	12553.2	12195.0	12046.0	12179.4	12237.2
55°	14970.7	14492.4	14018.8	13549.5	13124.7	12949.0	13091.3	13164.7
57.5°	15978.3	15535.7	15084.2	14610.3	14201.2	13927.6	14078.8	14176.7
60°	17159.2	16781.1	16311.9	15789.2	15375.5	15097.5	15184.2	15270.9
62.5°	18093.5	18240.2	17842.0	17237.1	16705.5	16349.7	16434.2	16525.4
65°	17641.9	19147.6	19501.2	18889.7	18153.4	17599.7	17564.1	17610.7
67.5°	14746.0	17670.8	19803.8	20386.4	19770.5	19000.8	18858.4	18927.4
70°	9864.0	13507.1	17270.5	20072.9	20818.0	20520.0	20379.8	20422.0
72.5°	4737.5	7866.7	11716.8	15442.2	17710.8	18751.7	19085.4	19247.7
75°	1732.7	3122.7	5647.1	8509.5	10273.3	11892.6	12949.0	13380.4
77.5°	1045.4	1261.1	1803.8	2715.6	3075.9	3443.0	3300.6	3371.8
80°	774.0	874.1	989.8	1112.0	1152.1	1152.1	1107.7	1072.1
82.5°	542.7	607.2	662.7	729.6	747.4	713.9	587.2	467.1
85°	349.2	378.1	402.6	444.8	433.8	413.6	278.1	246.9
87.5°	160.2	182.4	191.3	211.3	202.3	193.5	137.8	115.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)