

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: P300653

Luminaire Tested: **GLNA-AF-10-LED-E1-RW-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300653
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: GLNA-AF-10-LED-E1-RW-7050-800
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND
Rectangular Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48488.5 lumens
Efficiency: N/A
Efficacy: 115.7 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

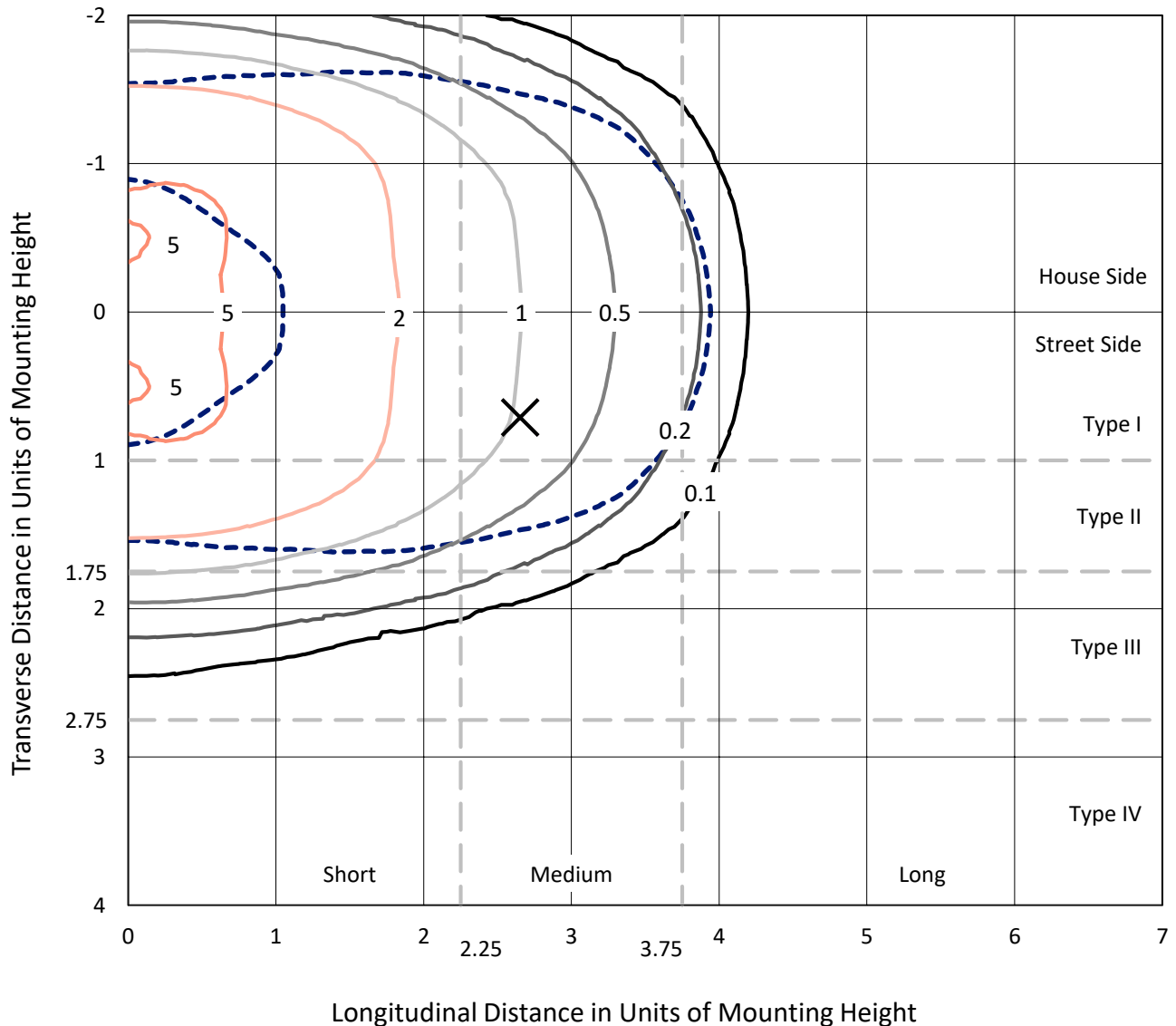
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

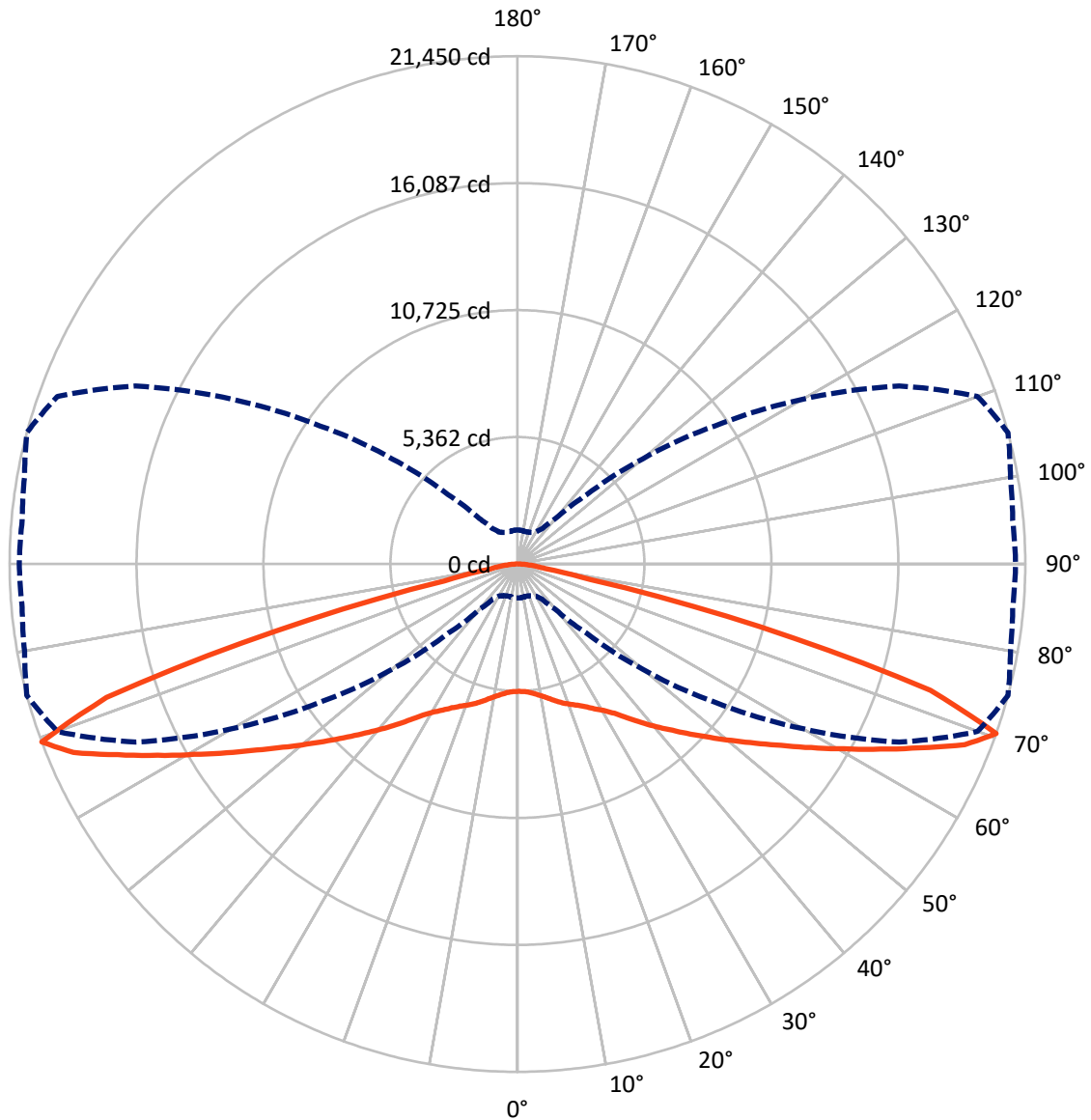
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 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	24244.2	0.0	24244.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24244.2	0.0	24244.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	48488.5	0.0	48488.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	515.8	1.1
10°-20°	1602.8	3.3
20°-30°	3016.7	6.2
30°-40°	5342.0	11.0
40°-50°	8933.5	18.4
50°-60°	12448.9	25.7
60°-70°	11544.3	23.8
70°-80°	4600.8	9.5
80°-90°	483.6	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°	48488.5	100.0
0°-180°	48488.5	100.0



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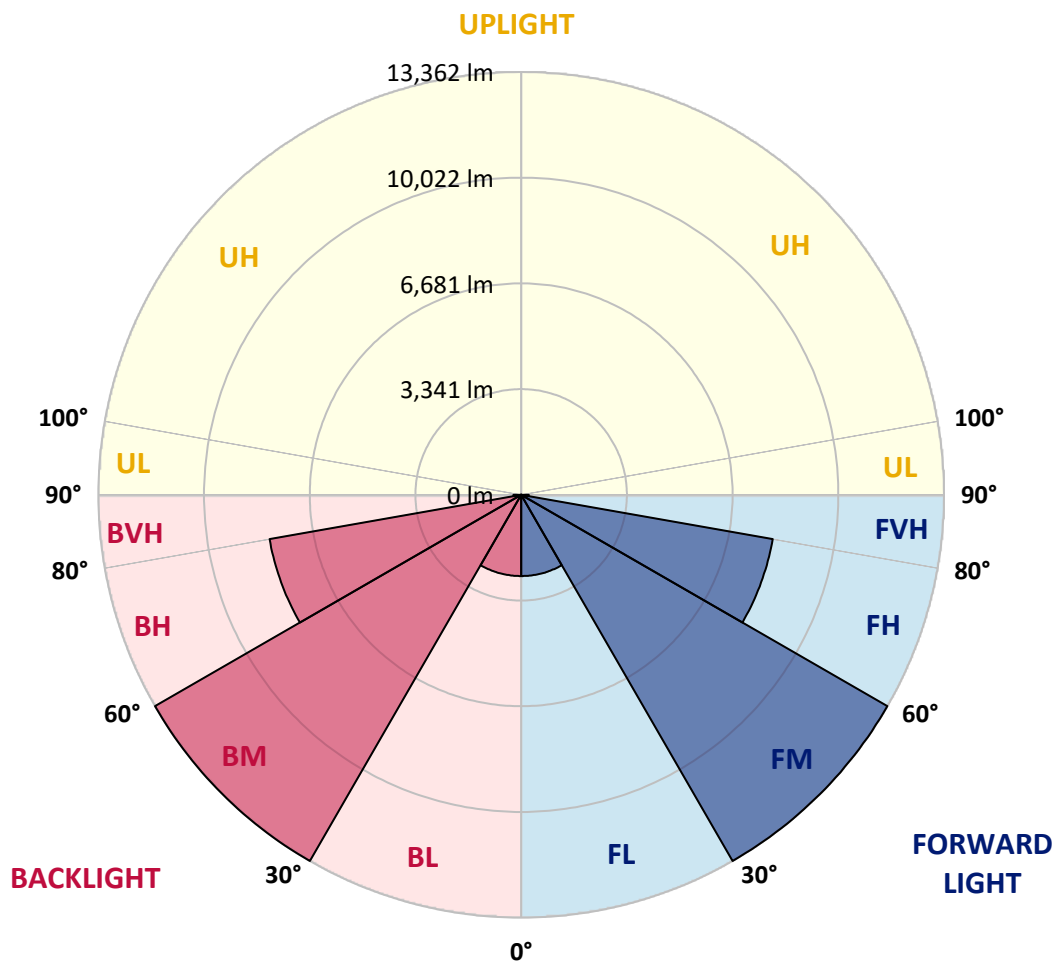
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2567.7	5.3			
FM	(30°-60°)	13362.2	27.6			
FH	(60°-80°)	8072.6	16.6			G4/12000
FVH	(80°-90°)	241.8	0.5			G3/500
BL	(0°-30°)	2567.7	5.3	B4/5000		
BM	(30°-60°)	13362.2	27.6	B5		
BH	(60°-80°)	8072.6	16.6	B5		G5
BVH	(80°-90°)	241.8	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°	5378.5	5378.5	5378.5	5378.5	5378.5	5378.5	5378.5	5378.5	5378.5	5378.5	5378.5
2.5°	5369.3	5364.8	5369.3	5367.0	5371.6	5371.6	5376.2	5385.4	5385.4	5392.3	5390.0
5°	5316.6	5314.3	5321.2	5328.1	5335.0	5348.7	5362.5	5383.1	5399.1	5410.6	5422.0
7.5°	5213.5	5213.5	5222.7	5238.7	5254.8	5284.5	5316.6	5357.9	5399.1	5433.5	5463.3
10°	5128.7	5133.3	5144.8	5172.3	5199.8	5245.6	5289.1	5348.7	5406.0	5463.3	5509.1
12.5°	5078.3	5085.2	5105.8	5147.0	5192.9	5254.8	5321.2	5396.8	5461.0	5529.8	5575.6
15°	5094.3	5098.9	5128.7	5179.1	5238.7	5316.6	5406.0	5495.4	5571.0	5644.3	5706.2
17.5°	5183.7	5190.6	5225.0	5282.3	5344.1	5435.8	5532.0	5632.9	5726.8	5809.3	5885.0
20°	5344.1	5351.0	5394.5	5456.4	5529.8	5623.7	5720.0	5825.4	5930.8	6017.9	6102.7
22.5°	5571.0	5582.5	5623.7	5685.6	5768.1	5868.9	5983.5	6095.8	6196.6	6276.8	6352.5
25°	5868.9	5894.1	5933.1	6001.8	6088.9	6180.6	6304.3	6418.9	6515.2	6590.8	6645.8
27.5°	6290.6	6325.0	6354.7	6421.2	6506.0	6593.1	6716.8	6817.7	6909.3	6982.7	7023.9
30°	6849.7	6884.1	6913.9	6978.1	7056.0	7138.5	7255.4	7344.7	7402.0	7459.3	7457.0
32.5°	7528.1	7564.7	7576.2	7644.9	7725.2	7814.5	7919.9	7970.4	8016.2	8023.1	7981.8
35°	8286.6	8304.9	8350.8	8442.4	8534.1	8607.4	8708.3	8733.5	8733.5	8699.1	8607.4
37.5°	9118.5	9129.9	9194.1	9297.2	9391.2	9466.8	9535.6	9586.0	9560.8	9487.4	9333.9
40°	10030.6	10051.2	10142.8	10234.5	10339.9	10411.0	10484.3	10493.5	10468.3	10360.5	10152.0
42.5°	10901.4	10919.7	11011.4	11155.8	11293.3	11391.8	11460.5	11474.3	11394.1	11295.5	11036.6
45°	11650.7	11698.9	11818.0	11987.6	12187.0	12326.8	12420.7	12459.7	12388.7	12260.3	11960.1
47.5°	12244.3	12292.4	12462.0	12663.7	12911.2	13138.0	13293.9	13376.4	13358.0	13261.8	12934.1
50°	12679.7	12725.5	12908.9	13156.4	13445.1	13727.0	13992.8	14189.9	14258.6	14215.1	13914.9
52.5°	12730.1	12805.7	13021.2	13353.4	13729.3	14114.3	14492.4	14827.0	15053.8	15088.2	14865.9
55°	12026.6	12102.2	12400.1	12892.8	13452.0	14079.9	14684.9	15248.6	15695.5	15924.7	15807.8
57.5°	10367.4	10502.6	10816.6	11394.1	12216.8	13156.4	14121.1	15122.6	16032.4	16639.7	16756.5
60°	7945.2	8105.6	8421.8	9036.0	9952.6	11073.3	12361.2	13841.6	15448.0	16813.8	17629.7
62.5°	5096.6	5247.9	5580.2	6114.1	6861.2	8075.8	9457.6	11215.3	13374.1	15530.5	17473.8
65°	2619.4	2701.9	2876.0	3199.1	3781.2	4688.7	5928.5	7681.6	10149.7	12810.3	15619.9
67.5°	1659.2	1675.2	1714.2	1760.0	1908.9	2222.9	2800.4	3893.5	5923.9	8699.1	11987.6
70°	1434.6	1434.6	1416.2	1409.4	1427.7	1471.2	1560.6	1815.0	2500.2	4129.6	6913.9
72.5°	1313.1	1299.4	1267.3	1242.1	1237.5	1237.5	1255.8	1294.8	1404.8	1682.1	2706.4
75°	1210.0	1171.0	1127.5	1097.7	1086.2	1074.8	1072.5	1079.4	1102.3	1145.8	1292.5
77.5°	1084.0	1033.5	983.1	953.3	939.6	923.5	909.8	893.7	882.3	896.0	960.2
80°	932.7	875.4	836.5	818.1	804.4	781.5	751.7	724.2	699.0	694.4	733.3
82.5°	751.7	685.2	687.5	694.4	669.2	637.1	605.0	575.2	531.7	508.7	531.7
85°	607.3	572.9	556.9	600.4	563.7	515.6	465.2	412.5	343.7	288.7	314.0
87.5°	236.0	236.0	352.9	543.1	488.1	398.7	341.5	291.0	181.0	139.8	142.1
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°	5378.5	5378.5	5378.5	5378.5	5378.5	5378.5	5378.5	5378.5
2.5°	5387.7	5392.3	5390.0	5387.7	5387.7	5385.4	5387.7	5387.7
5°	5428.9	5440.4	5440.4	5445.0	5445.0	5447.3	5449.5	5447.3
7.5°	5490.8	5511.4	5525.2	5541.2	5543.5	5545.8	5550.4	5545.8
10°	5552.7	5593.9	5623.7	5653.5	5667.3	5671.8	5676.4	5676.4
12.5°	5630.6	5687.9	5740.6	5793.3	5818.5	5832.2	5832.2	5841.4
15°	5758.9	5816.2	5878.1	5949.1	5992.7	6015.6	6022.5	6022.5
17.5°	5940.0	5990.4	6043.1	6111.8	6166.8	6196.6	6203.5	6201.2
20°	6150.8	6198.9	6228.7	6272.2	6320.4	6354.7	6363.9	6363.9
22.5°	6391.4	6418.9	6423.5	6437.2	6476.2	6522.0	6542.7	6547.2
25°	6657.2	6664.1	6645.8	6645.8	6671.0	6714.5	6735.2	6737.5
27.5°	7001.0	6966.6	6920.8	6904.7	6920.8	6971.2	6996.4	7005.6
30°	7429.5	7347.0	7241.6	7184.3	7175.2	7241.6	7287.4	7294.3
32.5°	7919.9	7800.8	7661.0	7544.1	7514.3	7555.6	7610.6	7608.3
35°	8502.0	8359.9	8190.4	8041.4	7972.6	8013.9	8091.8	8101.0
37.5°	9173.5	8987.9	8793.1	8605.1	8497.4	8508.9	8591.4	8618.9
40°	9922.8	9682.2	9437.0	9184.9	9031.4	9001.6	9102.4	9118.5
42.5°	10724.9	10415.5	10106.2	9794.5	9597.4	9551.6	9668.5	9661.6
45°	11579.7	11185.5	10823.5	10479.7	10246.0	10177.2	10273.5	10273.5
47.5°	12498.7	12012.8	11582.0	11192.4	10938.0	10839.5	10931.2	10938.0
50°	13472.6	12957.0	12450.5	12017.4	11712.6	11586.6	11705.7	11724.1
52.5°	14442.0	13940.1	13429.1	12934.1	12565.1	12411.6	12549.1	12608.7
55°	15425.1	14932.4	14444.3	13960.7	13523.0	13342.0	13488.7	13564.3
57.5°	16463.2	16007.2	15542.0	15053.8	14632.2	14350.3	14506.1	14607.0
60°	17680.1	17290.5	16807.0	16268.4	15842.2	15555.7	15645.1	15734.5
62.5°	18642.6	18793.8	18383.6	17760.3	17212.6	16845.9	16933.0	17027.0
65°	18177.4	19728.8	20093.2	19463.0	18704.4	18133.8	18097.2	18145.3
67.5°	15193.6	18207.2	20404.9	21005.3	20370.5	19577.6	19430.9	19501.9
70°	10163.5	13917.2	17794.7	20682.1	21449.8	21142.8	20998.4	21041.9
72.5°	4881.2	8105.6	12072.4	15910.9	18248.4	19320.9	19664.6	19831.9
75°	1785.2	3217.5	5818.5	8767.9	10585.1	12253.5	13342.0	13786.6
77.5°	1077.1	1299.4	1858.5	2798.1	3169.4	3547.5	3400.8	3474.1
80°	797.5	900.6	1019.8	1145.8	1187.1	1187.1	1141.2	1104.6
82.5°	559.2	625.6	682.9	751.7	770.0	735.6	605.0	481.2
85°	359.8	389.6	414.8	458.3	446.9	426.2	286.5	254.4
87.5°	165.0	187.9	197.1	217.7	208.5	199.4	142.1	119.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)