

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: P457561

Luminaire Tested: **GALN-SA8D-830-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457561
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8D-830-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51215 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 493
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: 24 FT

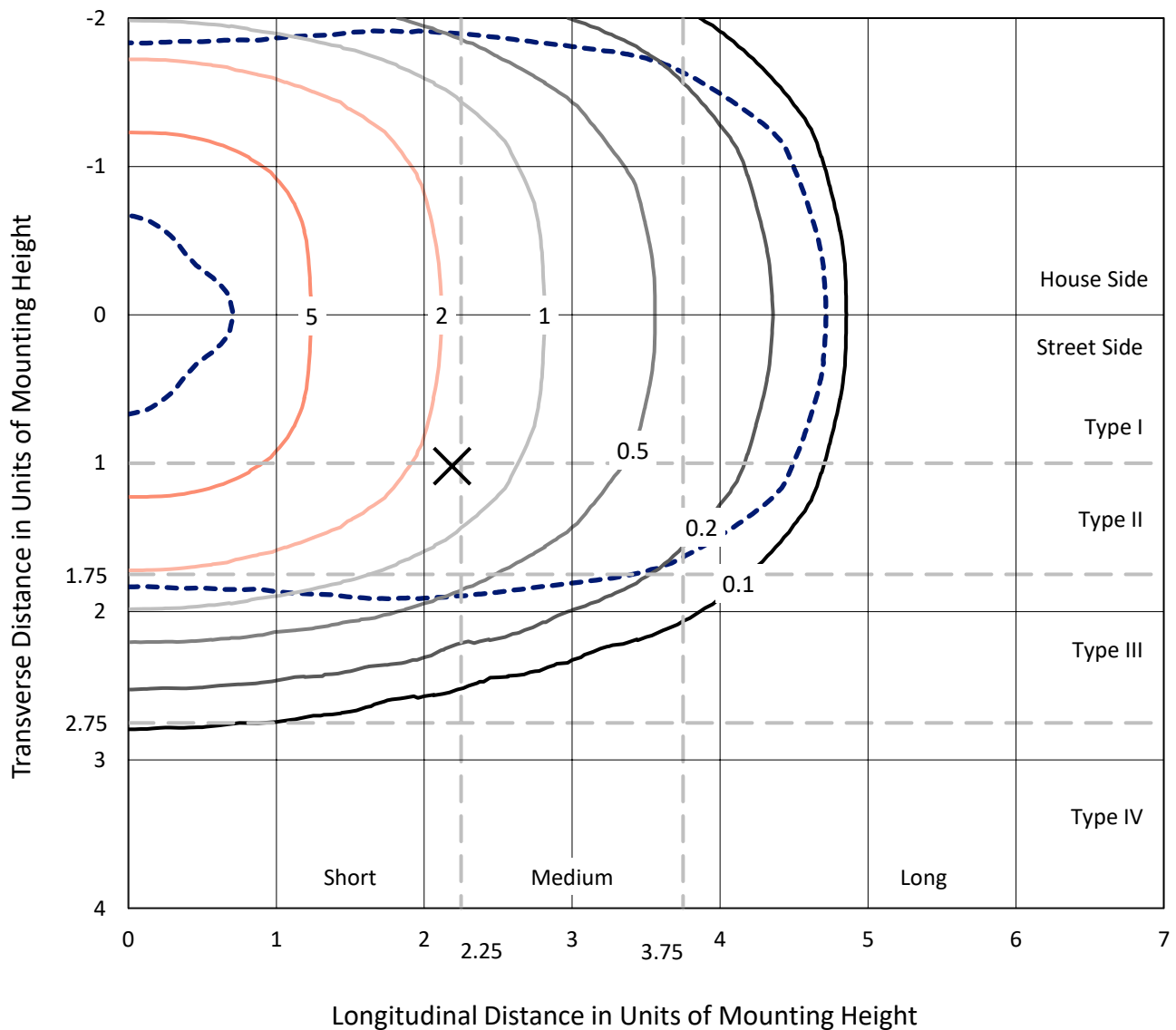


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

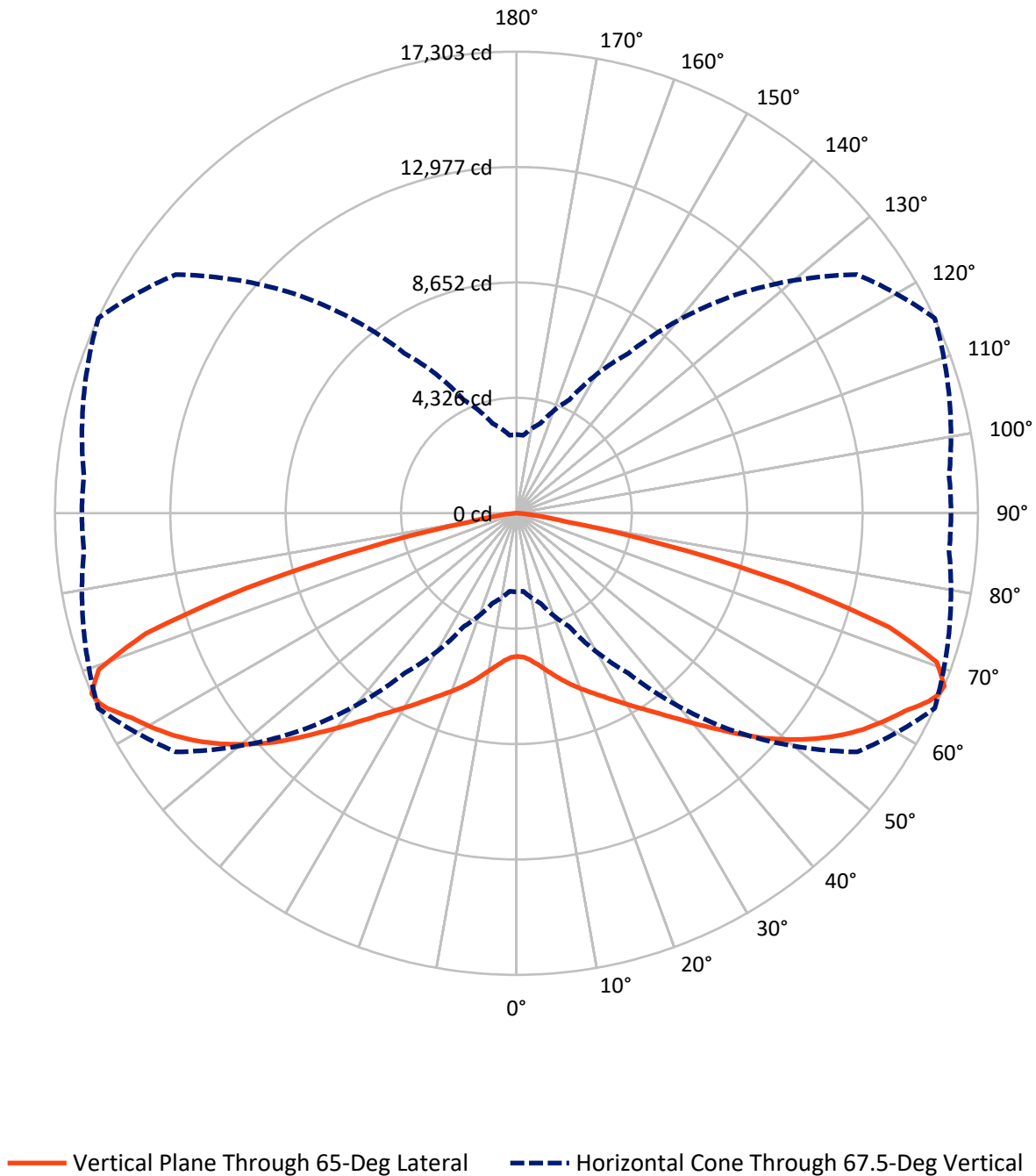


Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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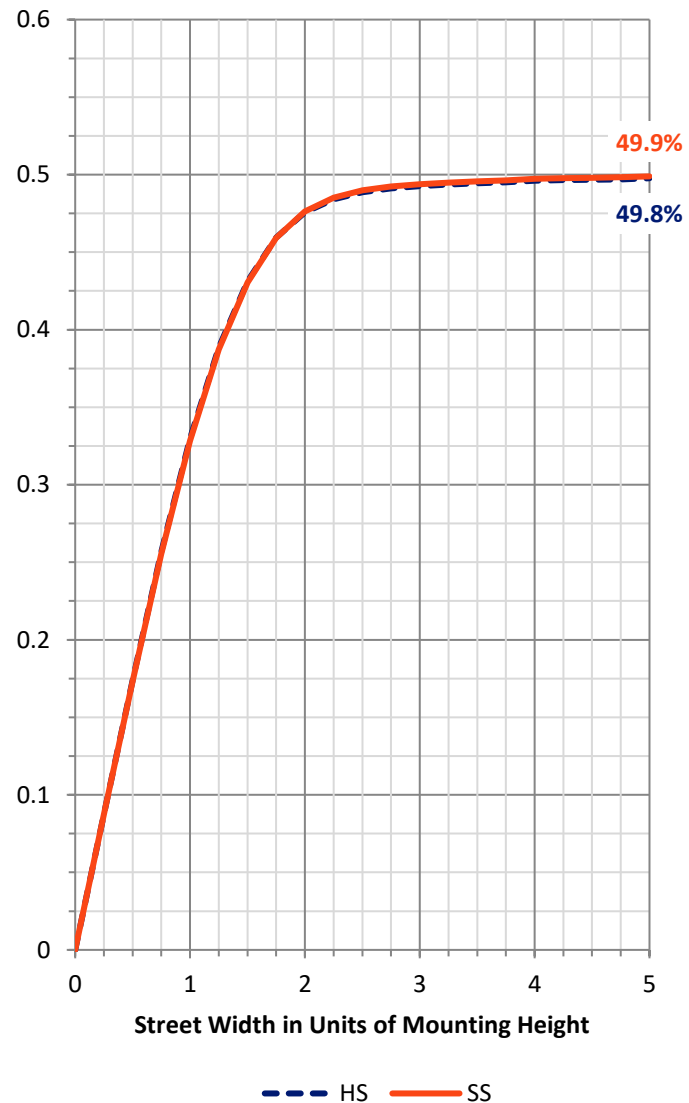
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25607.5	0.0	25607.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25607.5	0.0	25607.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	51215.0	0.0	51215.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.1	1.0
10°-20°	1770.7	3.5
20°-30°	3463.7	6.8
30°-40°	5891.3	11.5
40°-50°	9324.1	18.2
50°-60°	12363.6	24.1
60°-70°	11662.7	22.8
70°-80°	5765.5	11.3
80°-90°	444.3	0.9
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°	51215.0	100.0
0°-180°	51215.0	100.0

Coefficient of Utilization



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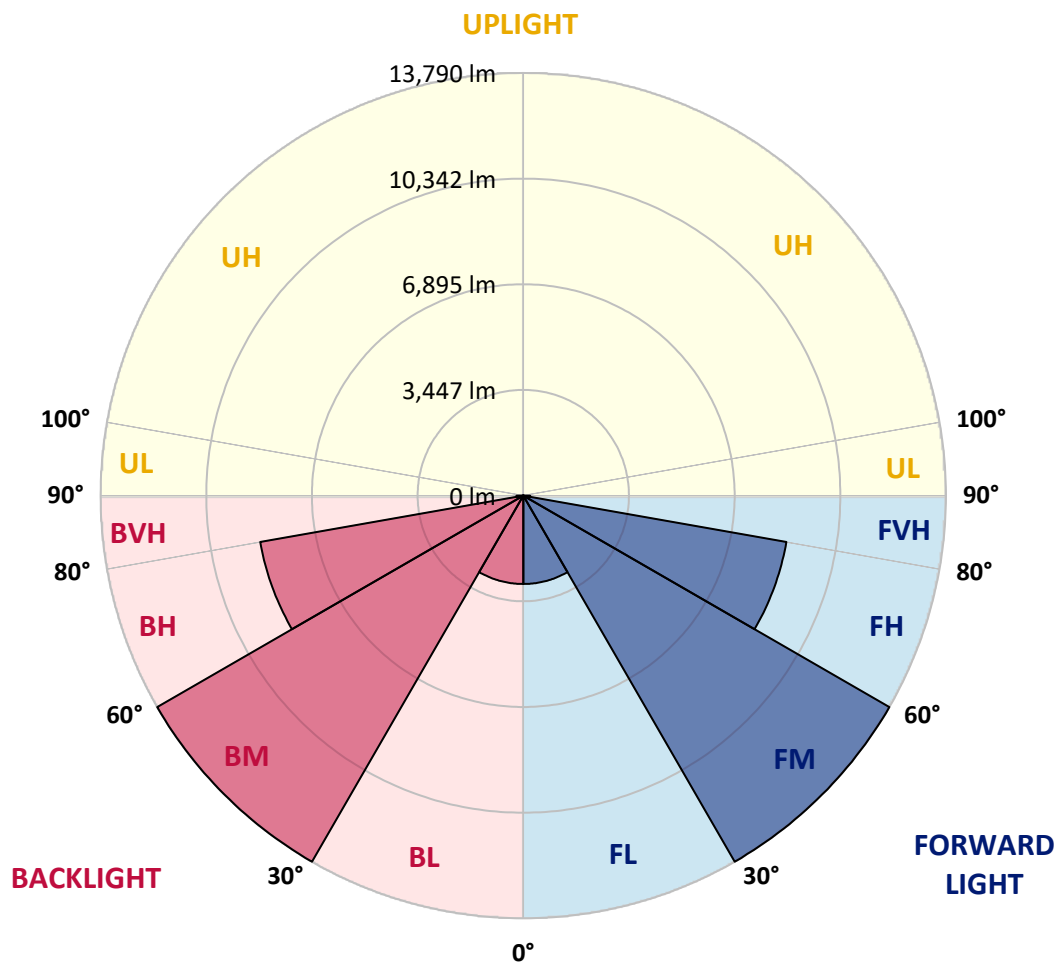
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2881.7	5.6			
FM	(30°-60°)	13789.5	26.9			
FH	(60°-80°)	8714.1	17.0			G4/12000
FVH	(80°-90°)	222.2	0.4			G2/225
BL	(0°-30°)	2881.7	5.6	B4/5000		
BM	(30°-60°)	13789.5	26.9	B5		
BH	(60°-80°)	8714.1	17.0	B5		G5
BVH	(80°-90°)	222.2	0.4			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5364.3	5364.3	5364.3	5364.3	5364.3	5364.3	5364.3	5364.3	5364.3	5364.3	5364.3
2.5°	5336.9	5342.4	5347.9	5356.1	5367.1	5383.5	5394.5	5402.7	5424.7	5427.4	5424.7
5°	5317.7	5323.2	5336.9	5361.6	5397.2	5446.6	5485.1	5531.7	5567.4	5592.1	5586.6
7.5°	5314.9	5325.9	5347.9	5400.0	5468.6	5553.6	5641.5	5721.0	5789.6	5844.5	5836.3
10°	5358.8	5372.6	5408.2	5485.1	5592.1	5715.5	5839.0	5957.0	6055.8	6127.1	6151.8
12.5°	5432.9	5443.9	5509.7	5625.0	5778.6	5932.3	6072.2	6217.7	6354.9	6475.6	6475.6
15°	5561.9	5581.1	5663.4	5830.8	6020.1	6198.5	6341.1	6494.8	6643.0	6780.2	6821.3
17.5°	5740.2	5767.7	5891.1	6105.2	6346.6	6511.3	6645.7	6771.9	6900.9	7032.6	7051.8
20°	5984.4	6011.9	6176.5	6434.4	6719.8	6917.4	7007.9	7038.1	7101.2	7227.4	7243.9
22.5°	6316.5	6343.9	6527.7	6818.6	7136.9	7350.9	7389.3	7318.0	7301.5	7400.3	7411.3
25°	6692.4	6717.1	6928.3	7241.1	7570.4	7803.6	7792.7	7617.1	7518.3	7578.6	7595.1
27.5°	7114.9	7150.6	7364.6	7688.4	8045.1	8250.9	8218.0	7962.8	7751.5	7740.5	7746.0
30°	7655.5	7693.9	7896.9	8207.0	8558.2	8747.5	8678.9	8336.0	8009.4	7899.7	7899.7
32.5°	8226.2	8322.2	8528.0	8851.8	9126.2	9263.4	9159.1	8747.5	8314.0	8160.4	8152.1
35°	8969.8	9021.9	9225.0	9540.5	9746.3	9853.3	9653.0	9211.3	8711.9	8530.8	8506.1
37.5°	9696.9	9740.8	9976.8	10278.6	10528.3	10522.8	10251.2	9762.8	9205.8	9002.7	8986.3
40°	10440.5	10487.2	10756.1	11033.2	11282.9	11261.0	10931.7	10385.7	9793.0	9565.2	9609.1
42.5°	11085.3	11137.5	11442.1	11837.2	12062.2	12056.7	11675.3	11060.7	10443.3	10240.2	10278.6
45°	11672.5	11719.2	12073.1	12525.9	12855.2	12896.3	12479.2	11828.9	11195.1	10934.4	10945.4
47.5°	12086.9	12174.7	12545.1	13063.7	13511.0	13656.4	13247.5	12611.0	11881.1	11609.4	11625.9
50°	12402.4	12457.3	12860.6	13450.6	14015.8	14317.7	13988.4	13335.3	12567.1	12278.9	12317.4
52.5°	12440.8	12506.7	12945.7	13626.2	14350.6	14808.8	14646.9	14043.3	13266.7	12970.4	13052.7
55°	12128.0	12166.4	12690.5	13516.4	14482.3	15173.8	15214.9	14701.8	13933.5	13708.5	13763.4
57.5°	11236.3	11335.0	11999.1	13003.3	14301.2	15368.6	15640.2	15300.0	14608.5	14386.3	14474.1
60°	9773.8	9872.5	10539.3	11812.5	13618.0	15278.0	15991.4	15829.5	15220.4	15042.0	15088.7
62.5°	7658.2	7650.0	8475.9	10037.2	12259.7	14833.5	16252.1	16339.9	15824.1	15599.1	15670.4
65°	4963.7	4988.4	5786.9	7468.9	10210.0	13703.0	16309.7	16990.2	16416.7	16076.5	16128.6
66°	3992.4	4066.5	4744.2	6294.5	9164.6	12962.2	16136.9	17182.3	16597.8	16186.3	16210.9
67.5°	2946.9	2933.2	3490.2	4686.6	7318.0	11554.6	15596.3	17303.0	16803.6	16285.0	16296.0
70°	1682.0	1679.3	1876.8	2573.8	4302.4	8135.7	13146.0	16724.1	17220.7	16641.7	16611.6
72.5°	1229.3	1221.0	1248.5	1421.3	2099.1	4107.6	9068.6	14616.7	17006.7	16584.1	16499.1
75°	1031.7	1026.2	1020.7	1042.7	1177.1	1860.4	4812.8	10514.6	14756.7	15566.1	15478.3
77.5°	842.4	842.4	845.1	839.6	845.1	979.6	1994.8	5636.0	8986.3	10031.7	10275.9
80°	658.5	655.8	702.4	683.2	639.3	628.4	883.5	1813.7	2982.6	2966.2	2447.6
82.5°	485.7	452.7	535.1	521.3	472.0	400.6	515.9	773.8	996.0	647.6	480.2
85°	307.3	304.6	378.7	345.7	288.1	189.3	247.0	332.0	411.6	249.7	203.0
87.5°	54.9	52.1	120.7	87.8	87.8	54.9	68.6	90.5	134.5	93.3	68.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)