

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: P456633

Luminaire Tested: **GALN-SA7D-830-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456633
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-SA7D-830-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 44176 lumens
Efficiency: N/A
Efficacy: 102.0 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): 433
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

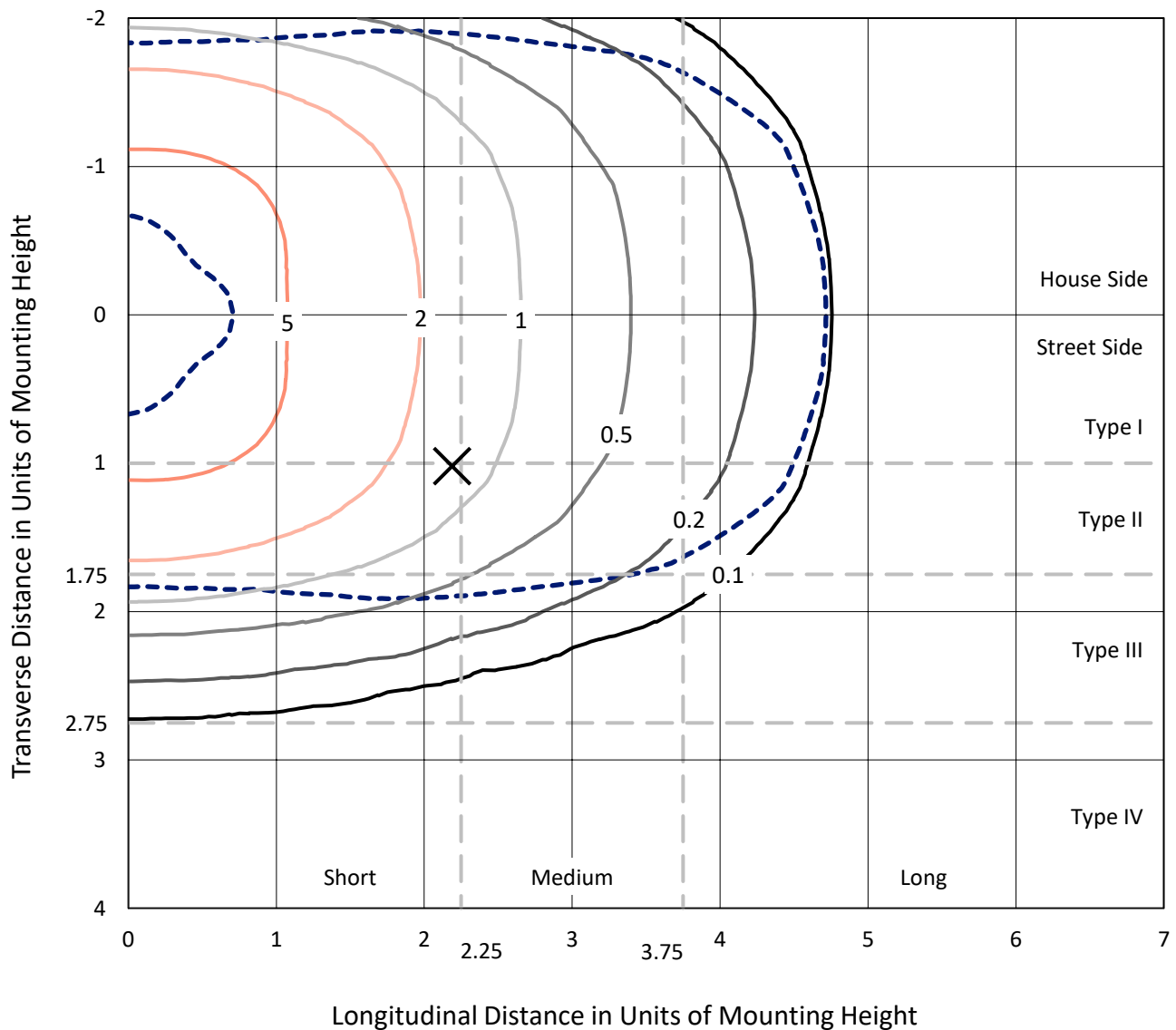


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

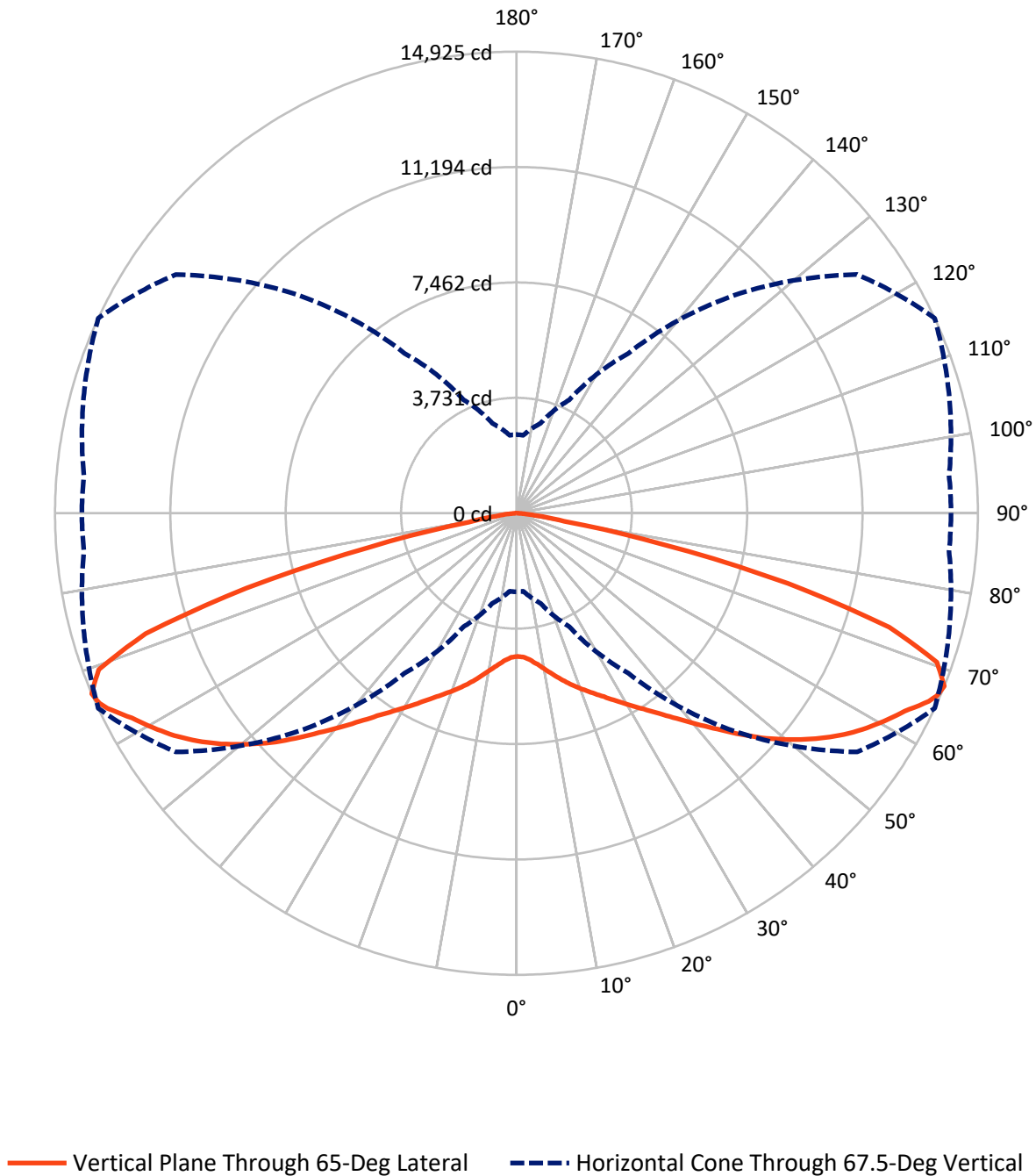


Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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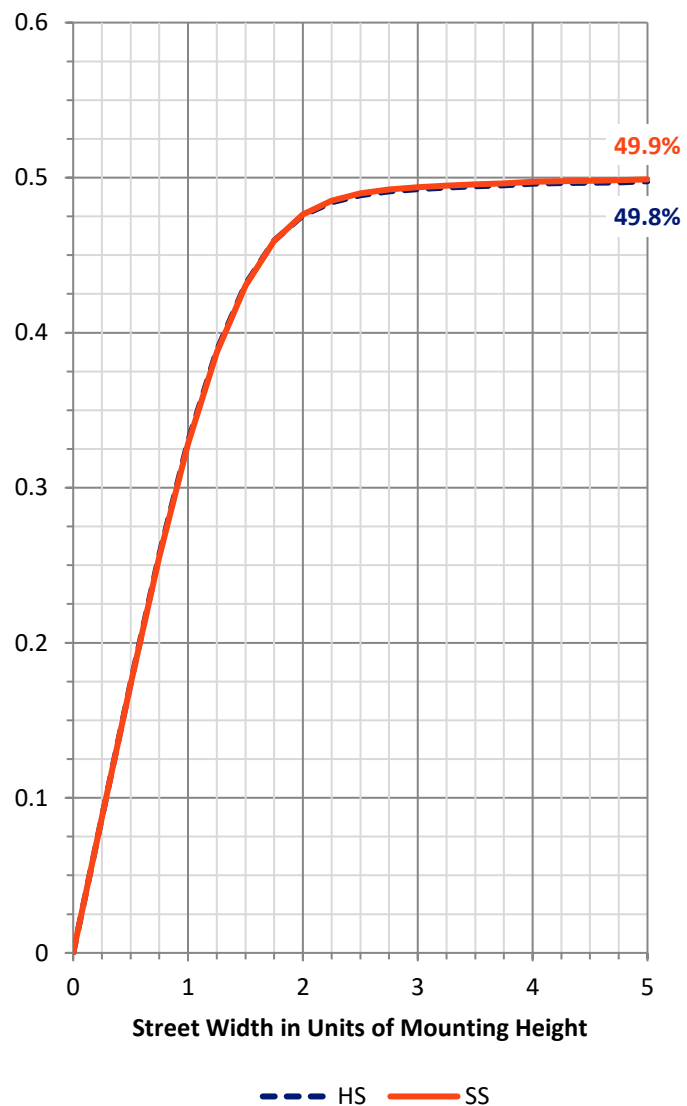
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22088.0	0.0	22088.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22088.0	0.0	22088.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	44176.0	0.0	44176.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.4	1.0
10°-20°	1527.4	3.5
20°-30°	2987.6	6.8
30°-40°	5081.6	11.5
40°-50°	8042.6	18.2
50°-60°	10664.3	24.1
60°-70°	10059.8	22.8
70°-80°	4973.1	11.3
80°-90°	383.3	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°	44176.0	100.0
0°-180°	44176.0	100.0

Coefficient of Utilization



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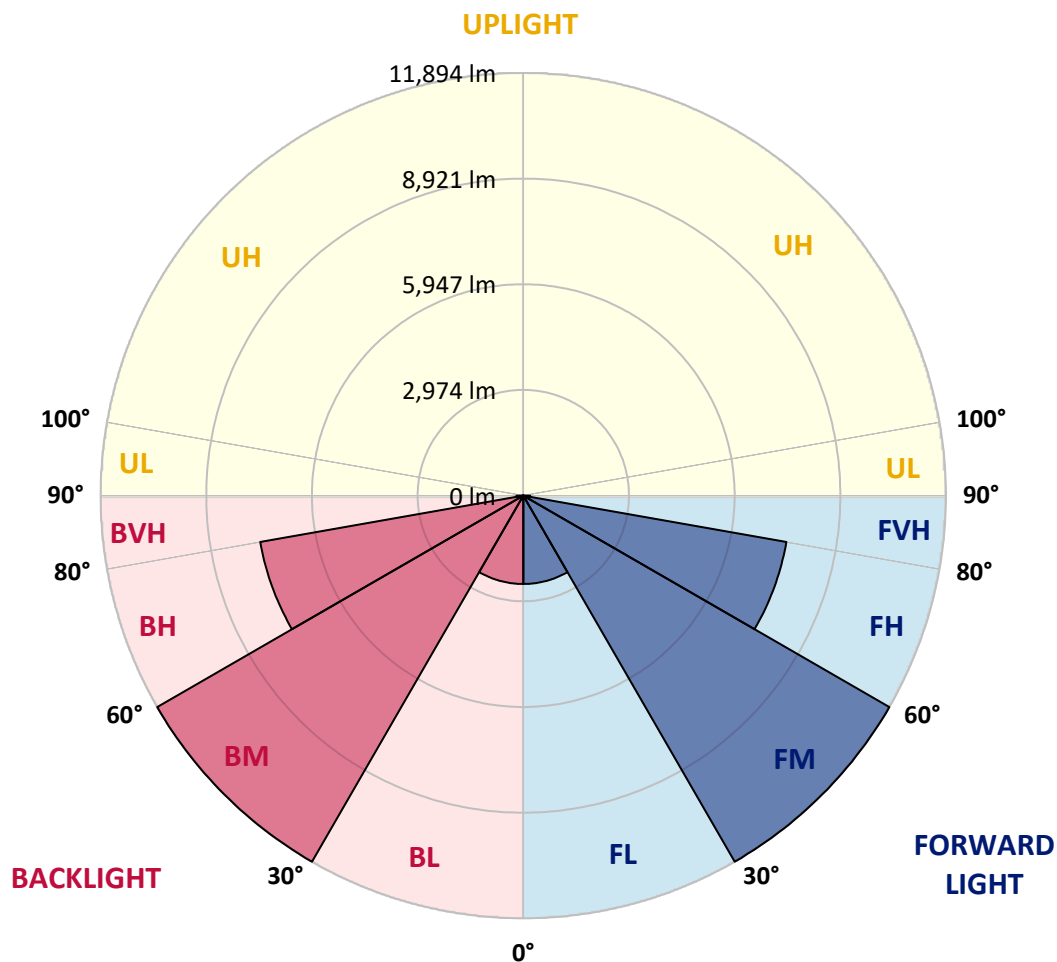
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2485.7	5.6			
FM	(30°-60°)	11894.3	26.9			
FH	(60°-80°)	7516.4	17.0			G4/12000
FVH	(80°-90°)	191.6	0.4			G2/225
BL	(0°-30°)	2485.7	5.6	B3/2500		
BM	(30°-60°)	11894.3	26.9	B5		
BH	(60°-80°)	7516.4	17.0	B5		G5
BVH	(80°-90°)	191.6	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°	4627.0	4627.0	4627.0	4627.0	4627.0	4627.0	4627.0	4627.0	4627.0	4627.0	4627.0
2.5°	4603.4	4608.1	4612.8	4619.9	4629.4	4643.6	4653.1	4660.2	4679.1	4681.5	4679.1
5°	4586.8	4591.5	4603.4	4624.7	4655.4	4698.0	4731.2	4771.4	4802.2	4823.5	4818.8
7.5°	4584.4	4593.9	4612.8	4657.8	4717.0	4790.4	4866.1	4934.7	4993.9	5041.2	5034.1
10°	4622.3	4634.1	4664.9	4731.2	4823.5	4930.0	5036.5	5138.3	5223.5	5285.0	5306.3
12.5°	4686.2	4695.7	4752.5	4851.9	4984.4	5117.0	5237.7	5363.1	5481.5	5585.6	5585.6
15°	4797.5	4814.0	4885.0	5029.4	5192.7	5346.5	5469.6	5602.2	5730.0	5848.3	5883.8
17.5°	4951.3	4975.0	5081.5	5266.1	5474.4	5616.4	5732.3	5841.2	5952.4	6066.0	6082.6
20°	5161.9	5185.6	5327.6	5550.1	5796.2	5966.6	6044.7	6070.8	6125.2	6234.1	6248.3
22.5°	5448.3	5472.0	5630.6	5881.4	6156.0	6340.6	6373.7	6312.2	6298.0	6383.2	6392.7
25°	5772.6	5793.9	5976.1	6245.9	6529.9	6731.1	6721.6	6570.2	6485.0	6537.0	6551.2
27.5°	6137.0	6167.8	6352.4	6631.7	6939.4	7116.9	7088.5	6868.4	6686.1	6676.7	6681.4
30°	6603.3	6636.4	6811.6	7079.0	7382.0	7545.3	7486.1	7190.3	6908.6	6813.9	6813.9
32.5°	7095.6	7178.4	7355.9	7635.2	7871.9	7990.2	7900.3	7545.3	7171.3	7038.8	7031.7
35°	7737.0	7782.0	7957.1	8229.3	8406.8	8499.1	8326.3	7945.3	7514.5	7358.3	7337.0
37.5°	8364.2	8402.1	8605.6	8865.9	9081.3	9076.6	8842.3	8421.0	7940.5	7765.4	7751.2
40°	9005.6	9045.8	9277.8	9516.8	9732.2	9713.2	9429.2	8958.2	8447.0	8250.6	8288.4
42.5°	9561.8	9606.7	9869.5	10210.3	10404.3	10399.6	10070.6	9540.5	9007.9	8832.8	8865.9
45°	10068.3	10108.5	10413.8	10804.3	11088.3	11123.8	10764.1	10203.2	9656.4	9431.6	9441.1
47.5°	10425.6	10501.4	10820.9	11268.2	11654.0	11779.4	11426.8	10877.7	10248.1	10013.8	10028.0
50°	10697.8	10745.2	11093.1	11601.9	12089.5	12349.8	12065.8	11502.5	10839.8	10591.3	10624.5
52.5°	10731.0	10787.8	11166.4	11753.4	12378.2	12773.5	12633.8	12113.2	11443.4	11187.7	11258.8
55°	10461.1	10494.3	10946.3	11658.7	12491.8	13088.3	13123.8	12681.2	12018.5	11824.4	11871.7
57.5°	9691.9	9777.2	10349.9	11216.1	12335.6	13256.3	13490.6	13197.1	12600.7	12409.0	12484.7
60°	8430.5	8515.7	9090.8	10189.0	11746.3	13178.2	13793.6	13653.9	13128.5	12974.7	13014.9
62.5°	6605.7	6598.6	7311.0	8657.7	10574.8	12794.8	14018.4	14094.1	13649.2	13455.1	13516.7
65°	4281.5	4302.8	4991.5	6442.4	8806.8	11819.7	14068.1	14655.1	14160.4	13866.9	13911.9
66°	3443.7	3507.6	4092.2	5429.4	7905.0	11180.6	13919.0	14820.7	14316.6	13961.6	13982.9
67.5°	2541.9	2530.1	3010.5	4042.5	6312.2	9966.5	13452.8	14924.9	14494.1	14046.8	14056.3
70°	1450.8	1448.5	1618.9	2220.0	3711.1	7017.5	11339.2	14425.5	14853.9	14354.5	14328.5
72.5°	1060.3	1053.2	1076.9	1226.0	1810.6	3543.1	7822.2	12607.8	14669.3	14304.8	14231.4
75°	889.9	885.2	880.4	899.4	1015.3	1604.7	4151.3	9069.5	12728.5	13426.7	13351.0
77.5°	726.6	726.6	729.0	724.2	729.0	844.9	1720.6	4861.4	7751.2	8652.9	8863.6
80°	568.0	565.7	605.9	589.3	551.5	542.0	762.1	1564.4	2572.7	2558.5	2111.2
82.5°	418.9	390.5	461.5	449.7	407.1	345.5	445.0	667.4	859.1	558.6	414.2
85°	265.1	262.7	326.6	298.2	248.5	163.3	213.0	286.4	355.0	215.4	175.1
87.5°	47.3	45.0	104.1	75.7	75.7	47.3	59.2	78.1	116.0	80.5	59.2
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)