

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: P454777

Luminaire Tested: **GALN-SA5D-830-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454777
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-SA5D-830-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 31762 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 309
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

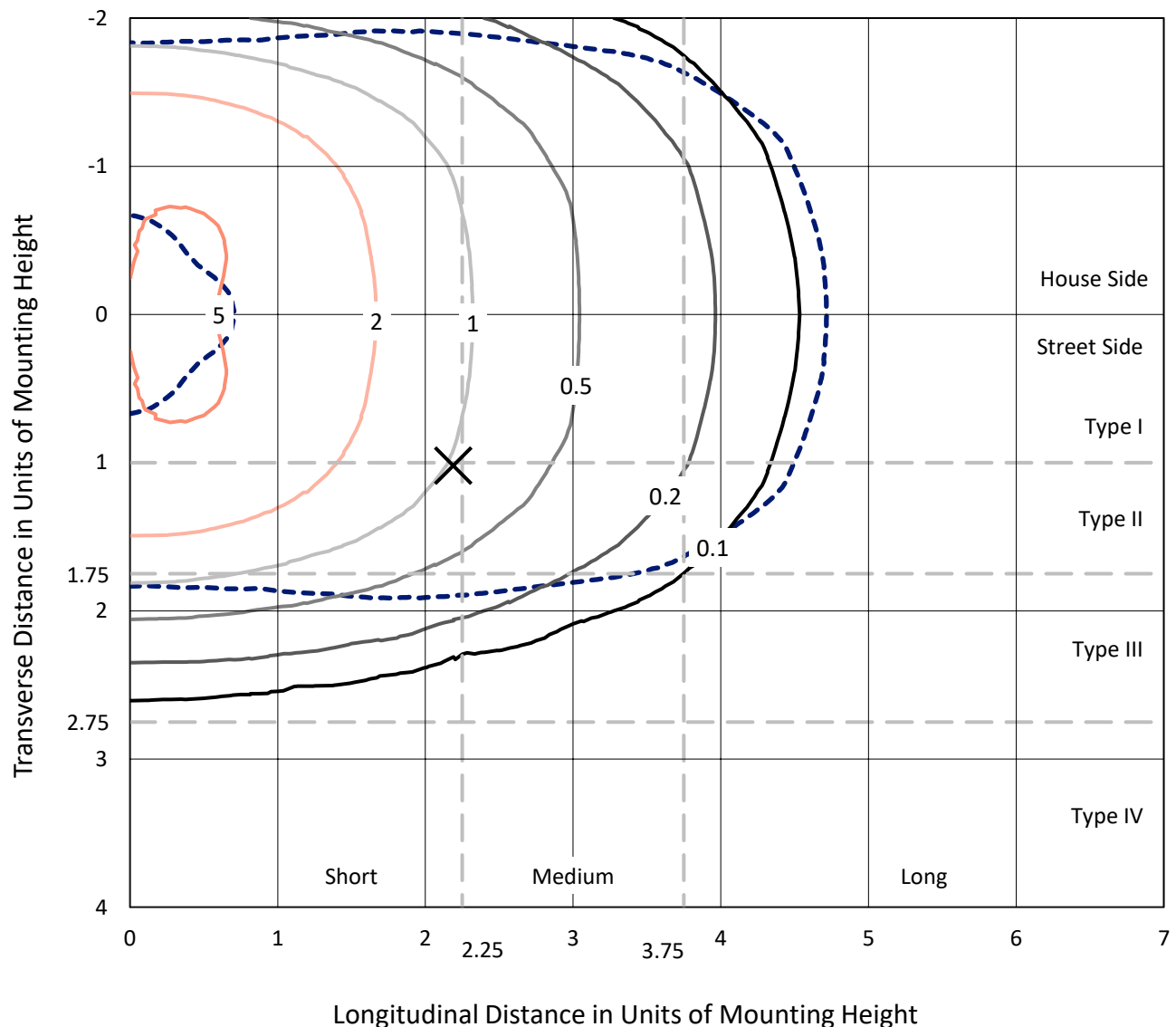


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

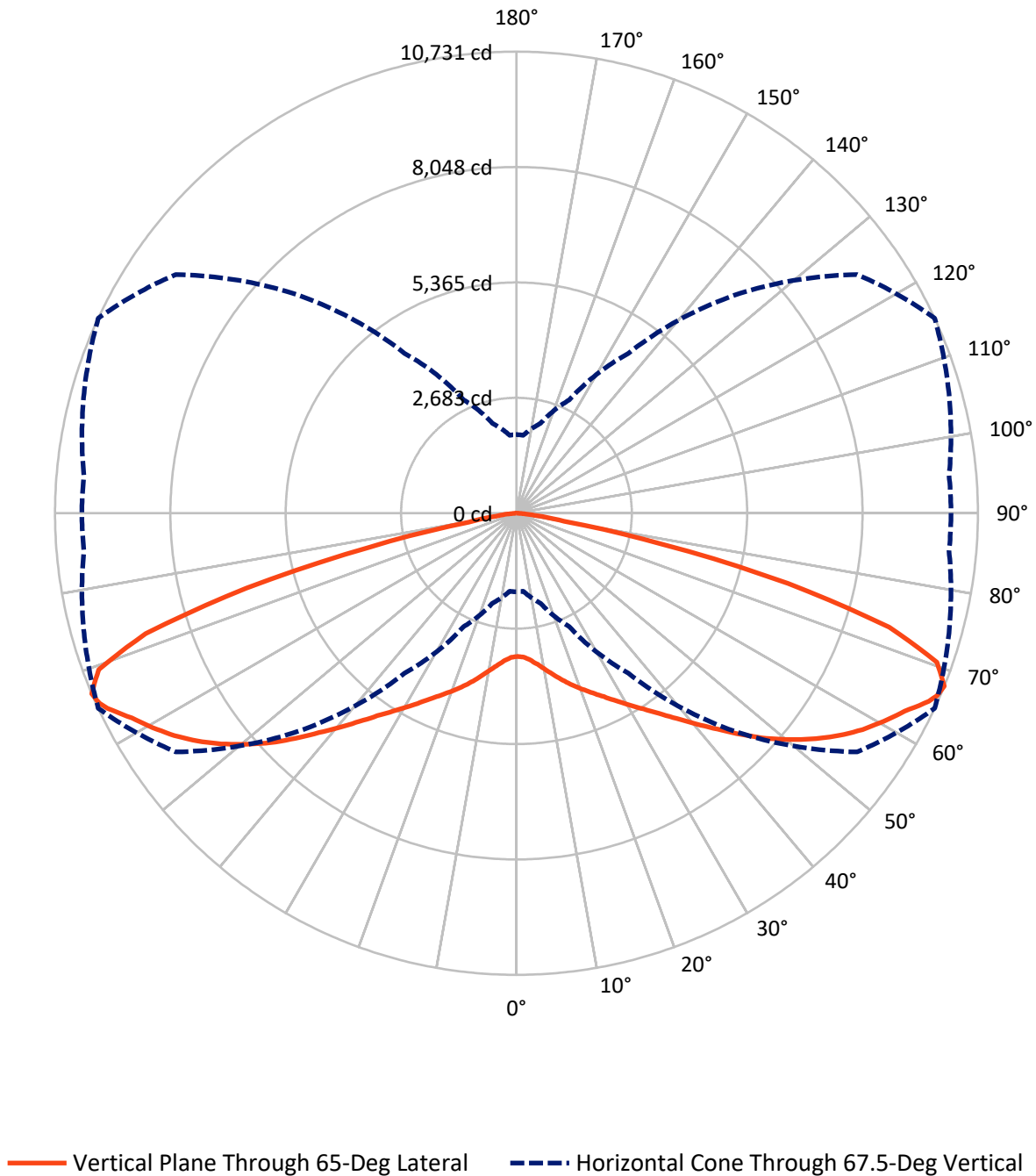


Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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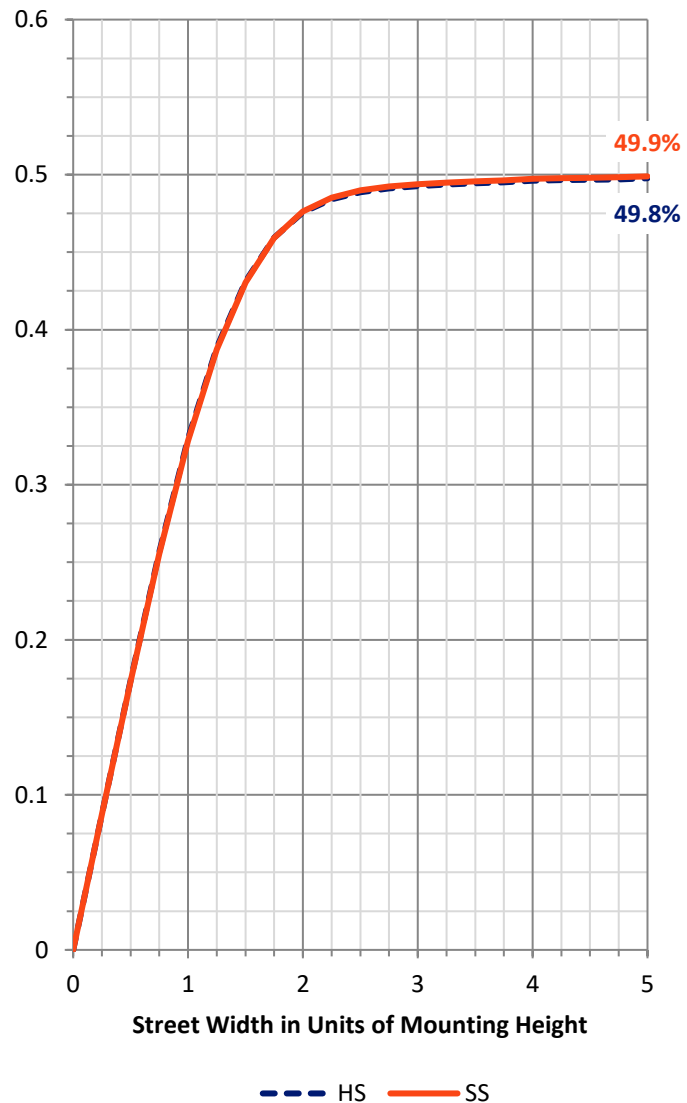
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15881.0	0.0	15881.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15881.0	0.0	15881.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	31762.0	0.0	31762.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.1	1.0
10°-20°	1098.2	3.5
20°-30°	2148.1	6.8
30°-40°	3653.6	11.5
40°-50°	5782.6	18.2
50°-60°	7667.5	24.1
60°-70°	7232.9	22.8
70°-80°	3575.6	11.3
80°-90°	275.6	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°	31762.0	100.0
0°-180°	31762.0	100.0

Coefficient of Utilization



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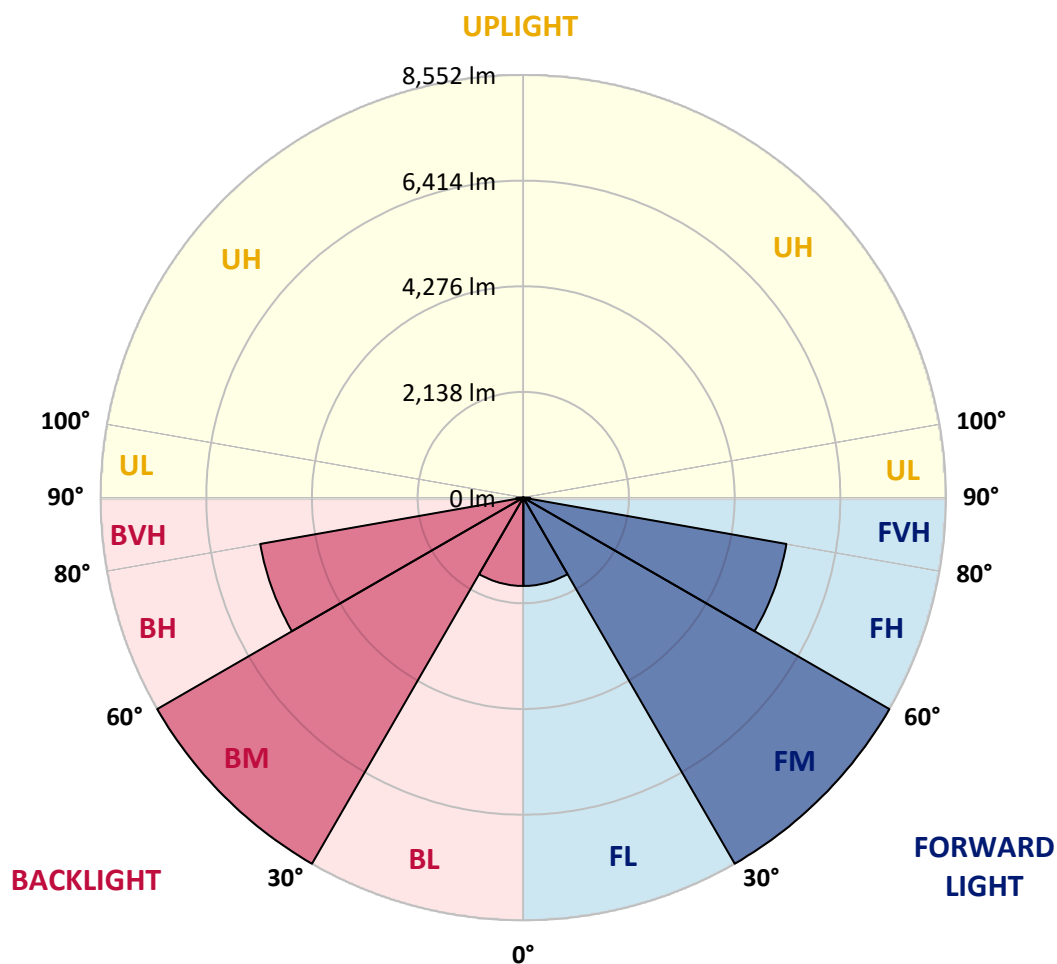
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1787.2	5.6			
FM	(30°-60°)	8551.8	26.9			
FH	(60°-80°)	5404.2	17.0			G3/7500
FVH	(80°-90°)	137.8	0.4			G2/225
BL	(0°-30°)	1787.2	5.6	B3/2500		
BM	(30°-60°)	8551.8	26.9	B5		
BH	(60°-80°)	5404.2	17.0	B5		G5
BVH	(80°-90°)	137.8	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°	3326.8	3326.8	3326.8	3326.8	3326.8	3326.8	3326.8	3326.8	3326.8	3326.8	3326.8
2.5°	3309.8	3313.2	3316.6	3321.7	3328.5	3338.7	3345.5	3350.6	3364.2	3365.9	3364.2
5°	3297.9	3301.3	3309.8	3325.1	3347.2	3377.8	3401.7	3430.6	3452.7	3468.0	3464.6
7.5°	3296.2	3303.0	3316.6	3348.9	3391.5	3444.2	3498.7	3548.0	3590.6	3624.6	3619.5
10°	3323.4	3331.9	3354.0	3401.7	3468.0	3544.6	3621.2	3694.4	3755.6	3799.9	3815.2
12.5°	3369.3	3376.1	3417.0	3488.4	3583.7	3679.0	3765.8	3856.0	3941.1	4016.0	4016.0
15°	3449.3	3461.2	3512.3	3616.1	3733.5	3844.1	3932.6	4027.9	4119.8	4204.9	4230.4
17.5°	3559.9	3576.9	3653.5	3786.2	3936.0	4038.1	4121.5	4199.8	4279.7	4361.4	4373.3
20°	3711.4	3728.4	3830.5	3990.4	4167.4	4289.9	4346.1	4364.8	4404.0	4482.2	4492.4
22.5°	3917.3	3934.3	4048.3	4228.7	4426.1	4558.8	4582.6	4538.4	4528.2	4589.4	4596.2
25°	4150.4	4165.7	4296.7	4490.7	4694.9	4839.6	4832.8	4723.9	4662.6	4700.0	4710.3
27.5°	4412.5	4434.6	4567.3	4768.1	4989.3	5117.0	5096.5	4938.3	4807.3	4800.4	4803.8
30°	4747.7	4771.5	4897.4	5089.7	5307.5	5425.0	5382.4	5169.7	4967.2	4899.1	4899.1
32.5°	5101.6	5161.2	5288.8	5489.6	5659.8	5744.9	5680.2	5425.0	5156.1	5060.8	5055.7
35°	5562.8	5595.1	5721.1	5916.8	6044.4	6110.7	5986.5	5712.5	5402.8	5290.5	5275.2
37.5°	6013.7	6041.0	6187.3	6374.5	6529.4	6526.0	6357.5	6054.6	5709.1	5583.2	5573.0
40°	6474.9	6503.8	6670.6	6842.5	6997.3	6983.7	6779.5	6440.9	6073.3	5932.1	5959.3
42.5°	6874.8	6907.1	7096.0	7341.1	7480.6	7477.2	7240.7	6859.5	6476.6	6350.7	6374.5
45°	7239.0	7267.9	7487.4	7768.2	7972.4	7997.9	7739.3	7336.0	6942.9	6781.2	6788.0
47.5°	7495.9	7550.4	7780.1	8101.7	8379.1	8469.3	8215.7	7820.9	7368.3	7199.8	7210.0
50°	7691.6	7725.6	7975.8	8341.6	8692.2	8879.4	8675.2	8270.2	7793.7	7615.0	7638.9
52.5°	7715.4	7756.3	8028.5	8450.6	8899.8	9184.0	9083.6	8709.2	8227.6	8043.9	8094.9
55°	7521.4	7545.3	7870.3	8382.5	8981.5	9410.3	9435.8	9117.6	8641.1	8501.6	8535.6
57.5°	6968.4	7029.7	7441.5	8064.3	8869.2	9531.1	9699.6	9488.6	9059.8	8921.9	8976.4
60°	6061.4	6122.7	6536.2	7325.7	8445.5	9475.0	9917.4	9817.0	9439.2	9328.6	9357.6
62.5°	4749.4	4744.3	5256.5	6224.8	7603.1	9199.3	10079.1	10133.5	9813.6	9674.1	9718.3
65°	3078.3	3093.7	3588.8	4632.0	6332.0	8498.2	10114.8	10536.8	10181.2	9970.2	10002.5
66°	2475.9	2521.9	2942.2	3903.7	5683.6	8038.7	10007.6	10655.9	10293.5	10038.2	10053.5
67.5°	1827.6	1819.1	2164.5	2906.5	4538.4	7165.8	9672.4	10730.8	10421.1	10099.5	10106.3
70°	1043.1	1041.4	1164.0	1596.2	2668.2	5045.5	8152.8	10371.8	10679.8	10320.7	10302.0
72.5°	762.4	757.2	774.3	881.5	1301.8	2547.4	5624.1	9064.9	10547.0	10285.0	10232.2
75°	639.8	636.4	633.0	646.6	730.0	1153.7	2984.8	6520.8	9151.6	9653.6	9599.2
77.5°	522.4	522.4	524.1	520.7	524.1	607.5	1237.1	3495.3	5573.0	6221.4	6372.8
80°	408.4	406.7	435.6	423.7	396.5	389.7	547.9	1124.8	1849.7	1839.5	1517.9
82.5°	301.2	280.8	331.8	323.3	292.7	248.4	319.9	479.9	617.7	401.6	297.8
85°	190.6	188.9	234.8	214.4	178.7	117.4	153.2	205.9	255.3	154.9	125.9
87.5°	34.0	32.3	74.9	54.5	54.5	34.0	42.5	56.2	83.4	57.9	42.5
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)