

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: P452921

Luminaire Tested: **GALN-SA3D-830-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452921
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-SA3D-830-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 18933 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 184
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

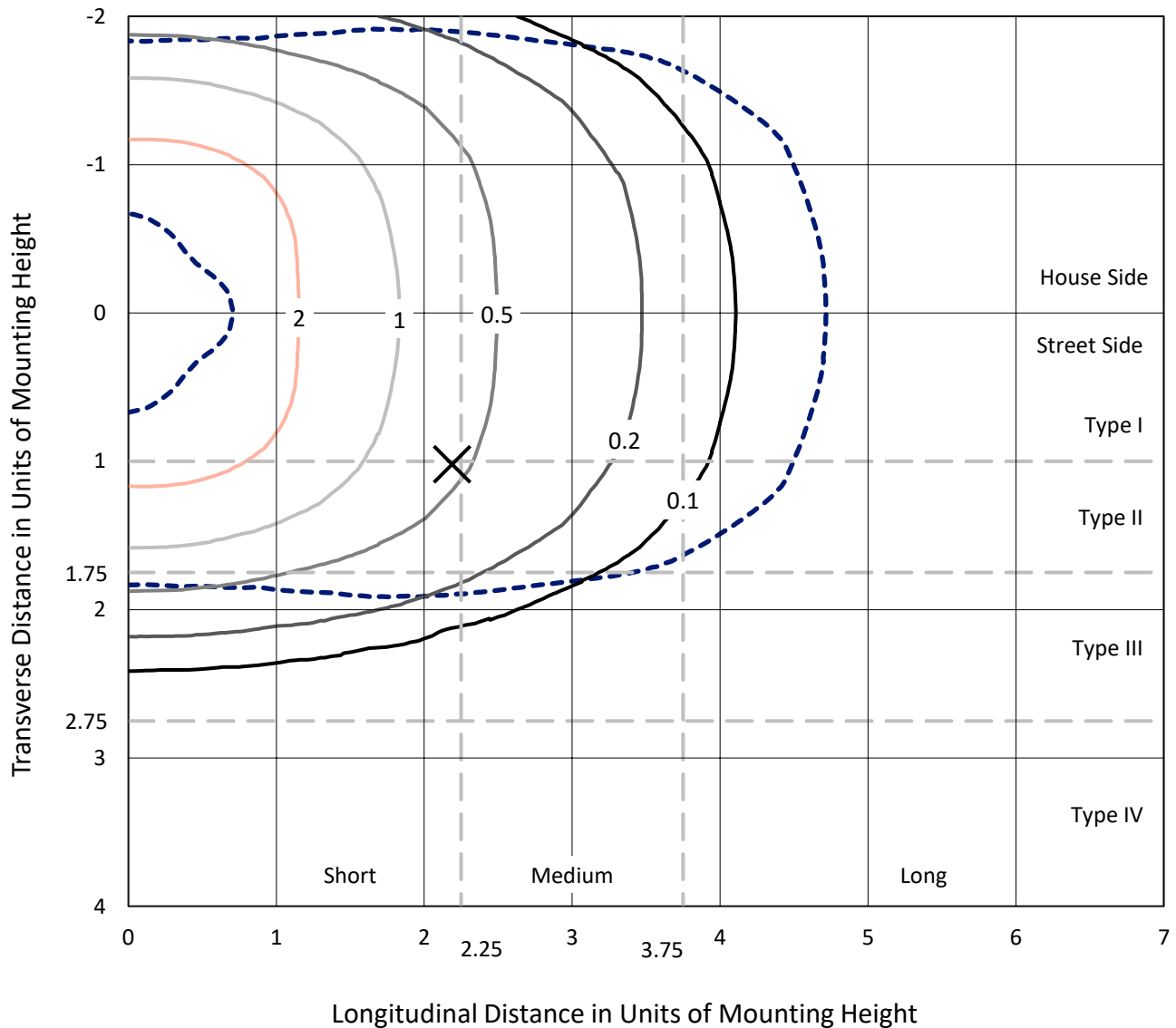


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

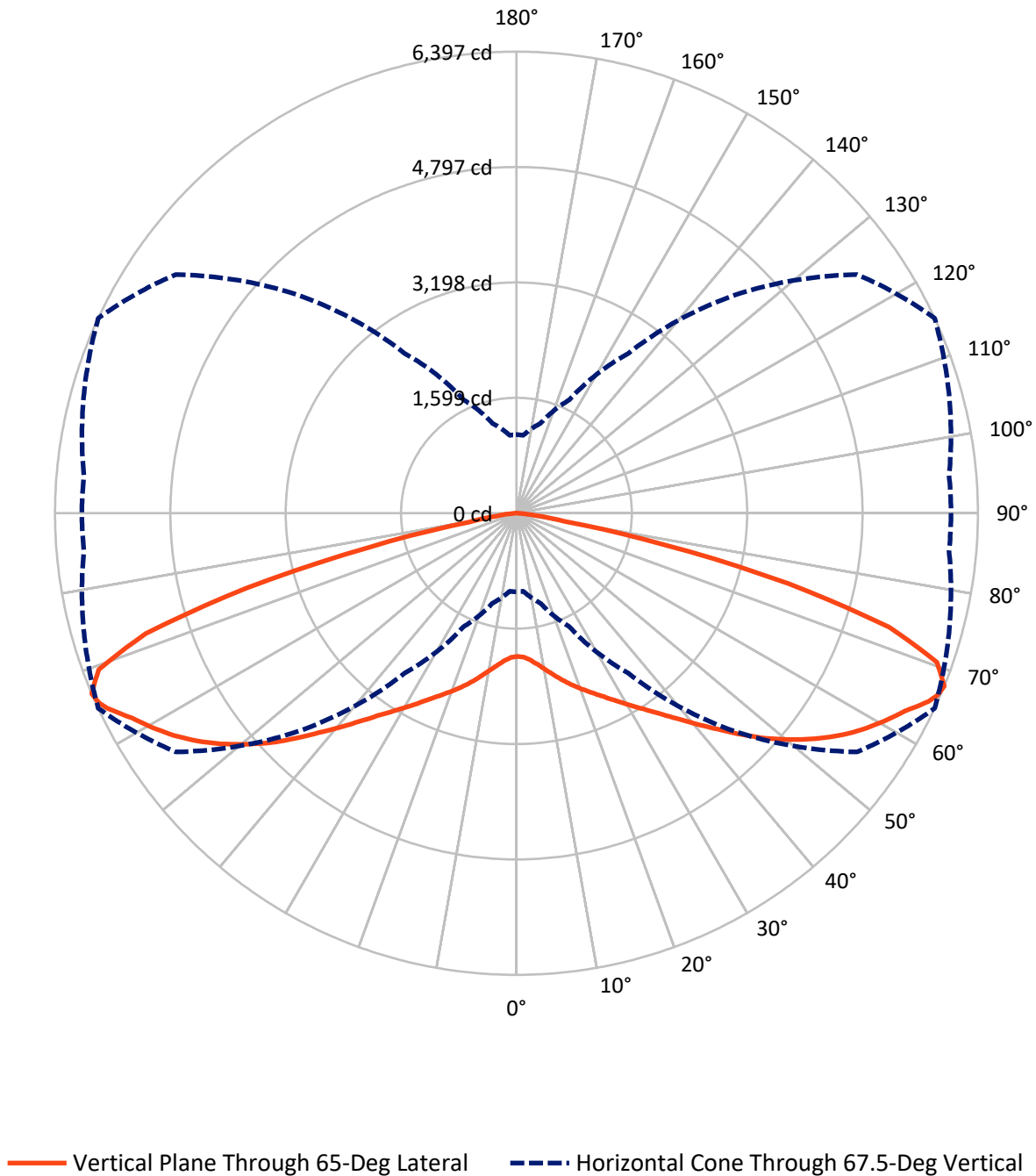


Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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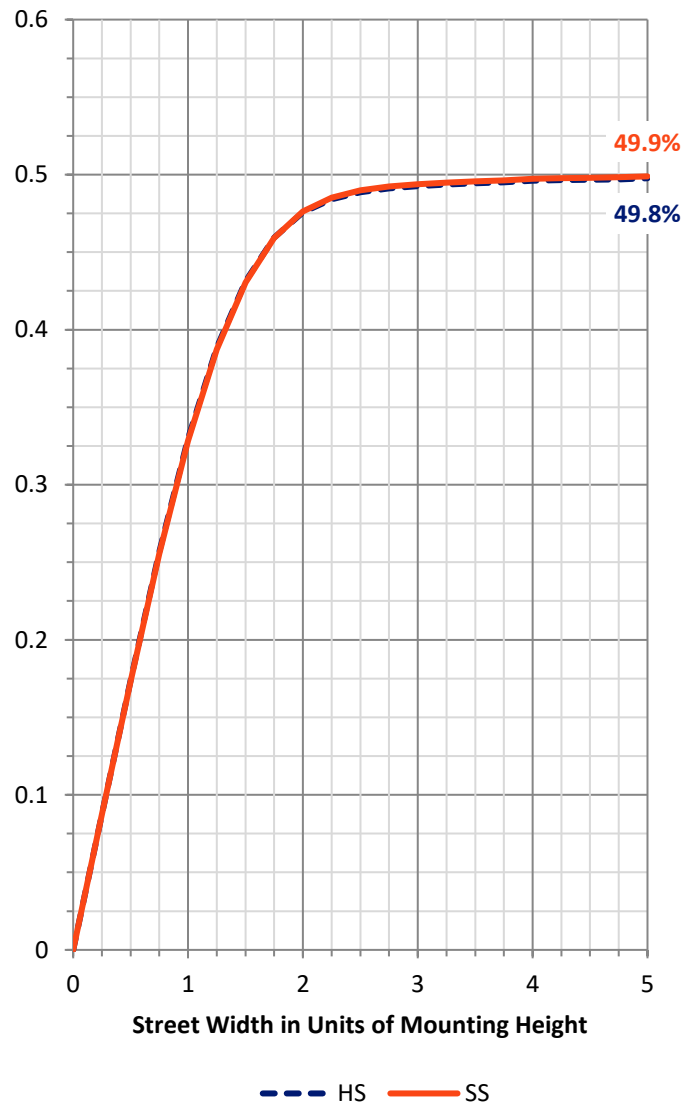
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9466.5	0.0	9466.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9466.5	0.0	9466.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	18933.0	0.0	18933.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.6	1.0
10°-20°	654.6	3.5
20°-30°	1280.4	6.8
30°-40°	2177.9	11.5
40°-50°	3446.9	18.2
50°-60°	4570.5	24.1
60°-70°	4311.4	22.8
70°-80°	2131.4	11.3
80°-90°	164.3	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°	18933.0	100.0
0°-180°	18933.0	100.0

Coefficient of Utilization



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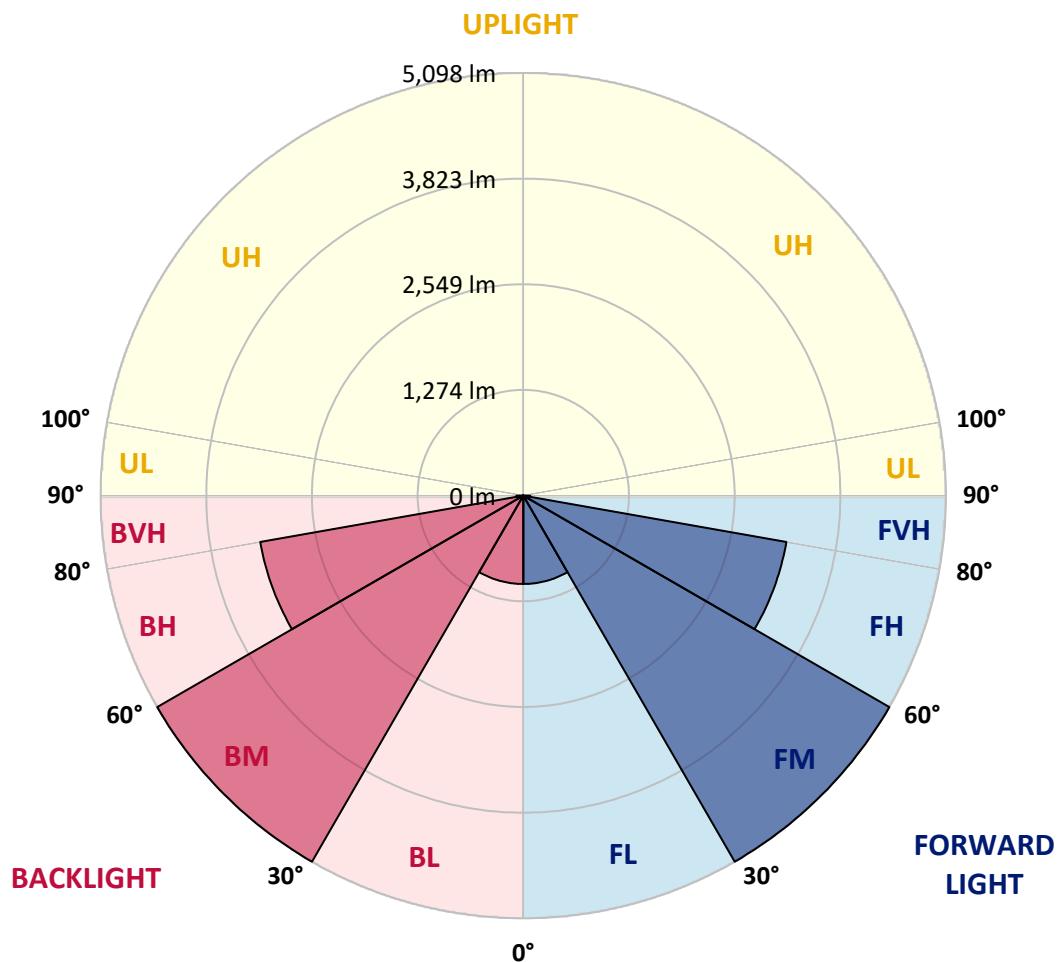
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1065.3	5.6			
FM	(30°-60°)	5097.7	26.9			
FH	(60°-80°)	3221.4	17.0			G2/5000
FVH	(80°-90°)	82.1	0.4			G1/100
BL	(0°-30°)	1065.3	5.6	B3/2500		
BM	(30°-60°)	5097.7	26.9	B4/8500		
BH	(60°-80°)	3221.4	17.0	B4/5000		G4/5000
BVH	(80°-90°)	82.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1983.1	1983.1	1983.1	1983.1	1983.1	1983.1	1983.1	1983.1	1983.1	1983.1	1983.1
2.5°	1972.9	1974.9	1977.0	1980.0	1984.1	1990.2	1994.2	1997.3	2005.4	2006.4	2005.4
5°	1965.8	1967.8	1972.9	1982.1	1995.2	2013.5	2027.7	2044.9	2058.1	2067.3	2065.2
7.5°	1964.8	1968.9	1977.0	1996.3	2021.6	2053.1	2085.5	2114.9	2140.3	2160.6	2157.5
10°	1981.0	1986.1	1999.3	2027.7	2067.3	2112.9	2158.5	2202.2	2238.7	2265.1	2274.2
12.5°	2008.4	2012.5	2036.8	2079.4	2136.2	2193.0	2244.8	2298.5	2349.2	2393.9	2393.9
15°	2056.1	2063.2	2093.6	2155.5	2225.5	2291.4	2344.2	2401.0	2455.8	2506.5	2521.7
17.5°	2122.0	2132.2	2177.8	2256.9	2346.2	2407.1	2456.8	2503.4	2551.1	2599.8	2606.9
20°	2212.3	2222.5	2283.3	2378.7	2484.2	2557.2	2590.7	2601.8	2625.2	2671.8	2677.9
22.5°	2335.0	2345.2	2413.2	2520.7	2638.3	2717.5	2731.7	2705.3	2699.2	2735.7	2739.8
25°	2474.0	2483.1	2561.2	2676.9	2798.6	2884.8	2880.8	2815.9	2779.3	2801.6	2807.7
27.5°	2630.2	2643.4	2722.5	2842.2	2974.1	3050.2	3038.0	2943.7	2865.6	2861.5	2863.5
30°	2830.1	2844.3	2919.3	3033.9	3163.8	3233.8	3208.4	3081.6	2960.9	2920.3	2920.3
32.5°	3041.0	3076.5	3152.6	3272.3	3373.7	3424.5	3385.9	3233.8	3073.5	3016.7	3013.6
35°	3315.9	3335.2	3410.3	3526.9	3603.0	3642.6	3568.5	3405.2	3220.6	3153.6	3144.5
37.5°	3584.7	3601.0	3688.2	3799.8	3892.1	3890.1	3789.6	3609.1	3403.2	3328.1	3322.0
40°	3859.6	3876.9	3976.3	4078.7	4171.0	4162.9	4041.2	3839.3	3620.2	3536.0	3552.3
42.5°	4098.0	4117.3	4229.9	4375.9	4459.1	4457.1	4316.1	4088.9	3860.6	3785.6	3799.8
45°	4315.1	4332.3	4463.2	4630.5	4752.3	4767.5	4613.3	4372.9	4138.6	4042.2	4046.3
47.5°	4468.2	4500.7	4637.6	4829.3	4994.7	5048.4	4897.3	4662.0	4392.2	4291.7	4297.8
50°	4584.9	4605.2	4754.3	4972.4	5181.3	5292.9	5171.2	4929.8	4645.7	4539.2	4553.4
52.5°	4599.1	4623.4	4785.7	5037.3	5305.1	5474.5	5414.6	5191.5	4904.4	4794.9	4825.3
55°	4483.5	4497.7	4691.4	4996.7	5353.8	5609.4	5624.6	5434.9	5150.9	5067.7	5088.0
57.5°	4153.8	4190.3	4435.8	4807.0	5286.8	5681.4	5781.8	5656.0	5400.4	5318.3	5350.7
60°	3613.1	3649.7	3896.1	4366.8	5034.2	5647.9	5911.7	5851.8	5626.6	5560.7	5577.9
62.5°	2831.1	2828.0	3133.3	3710.5	4532.1	5483.6	6008.0	6040.5	5849.8	5766.6	5793.0
65°	1835.0	1844.1	2139.3	2761.1	3774.4	5065.7	6029.3	6280.9	6068.9	5943.1	5962.4
66°	1475.9	1503.3	1753.8	2326.9	3387.9	4791.8	5965.4	6351.9	6135.8	5983.7	5992.8
67.5°	1089.4	1084.3	1290.3	1732.5	2705.3	4271.5	5765.6	6396.5	6211.9	6020.2	6024.3
70°	621.8	620.8	693.8	951.5	1590.5	3007.6	4859.8	6182.5	6366.1	6152.1	6140.9
72.5°	454.4	451.4	461.5	525.4	776.0	1518.5	3352.4	5403.5	6287.0	6130.8	6099.3
75°	381.4	379.4	377.3	385.5	435.2	687.7	1779.2	3887.0	5455.2	5754.4	5722.0
77.5°	311.4	311.4	312.4	310.4	312.4	362.1	737.4	2083.5	3322.0	3708.5	3798.8
80°	243.4	242.4	259.7	252.6	236.3	232.3	326.6	670.5	1102.6	1096.5	904.8
82.5°	179.5	167.4	197.8	192.7	174.5	148.1	190.7	286.0	368.2	239.4	177.5
85°	113.6	112.6	140.0	127.8	106.5	70.0	91.3	122.7	152.2	92.3	75.1
87.5°	20.3	19.3	44.6	32.5	32.5	20.3	25.4	33.5	49.7	34.5	25.4
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)