

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: STREETWORKS

Report Number: P317258

Luminaire Tested: **GAN-SA4D-827-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317258
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4D-827-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23519 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

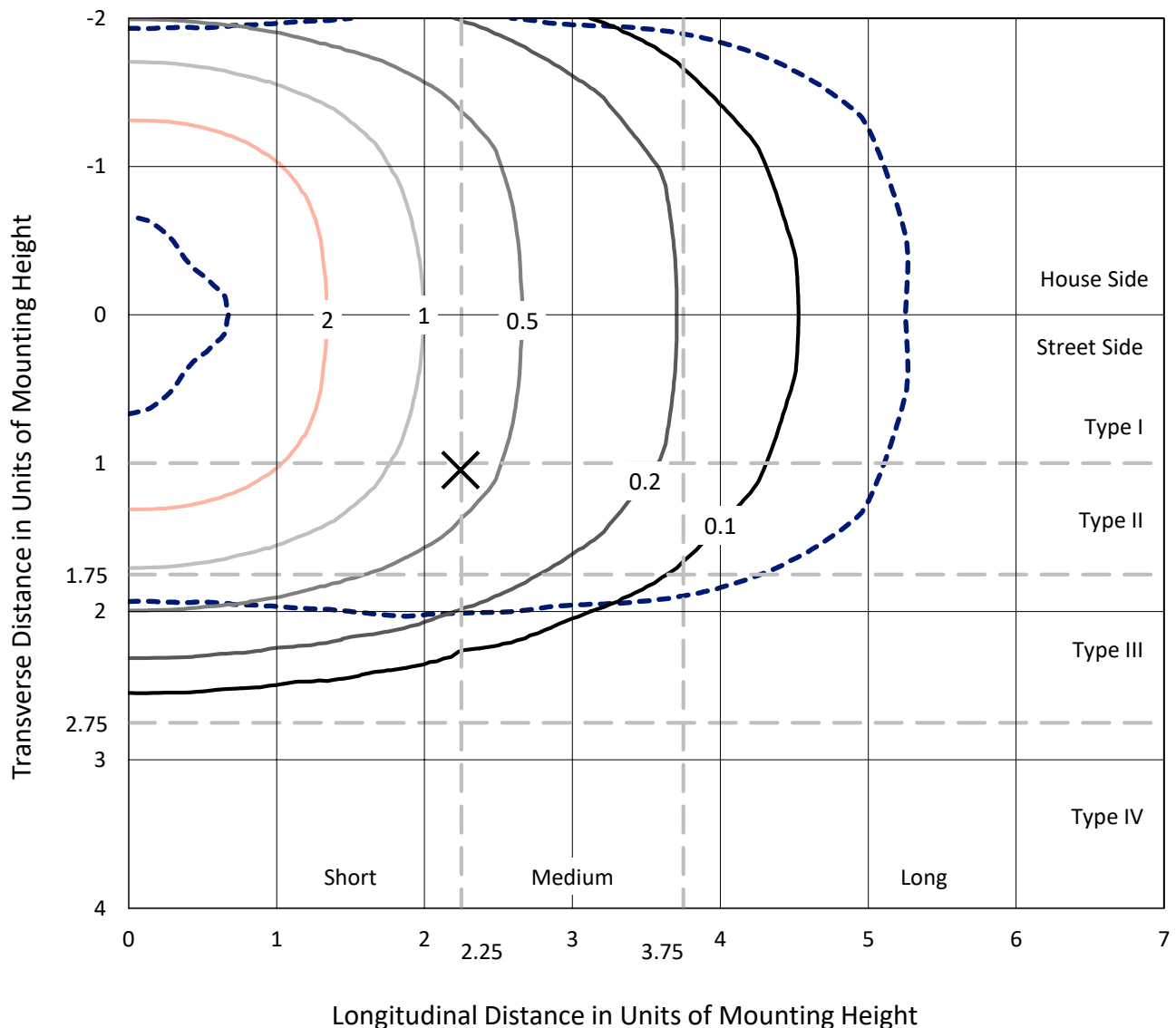
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

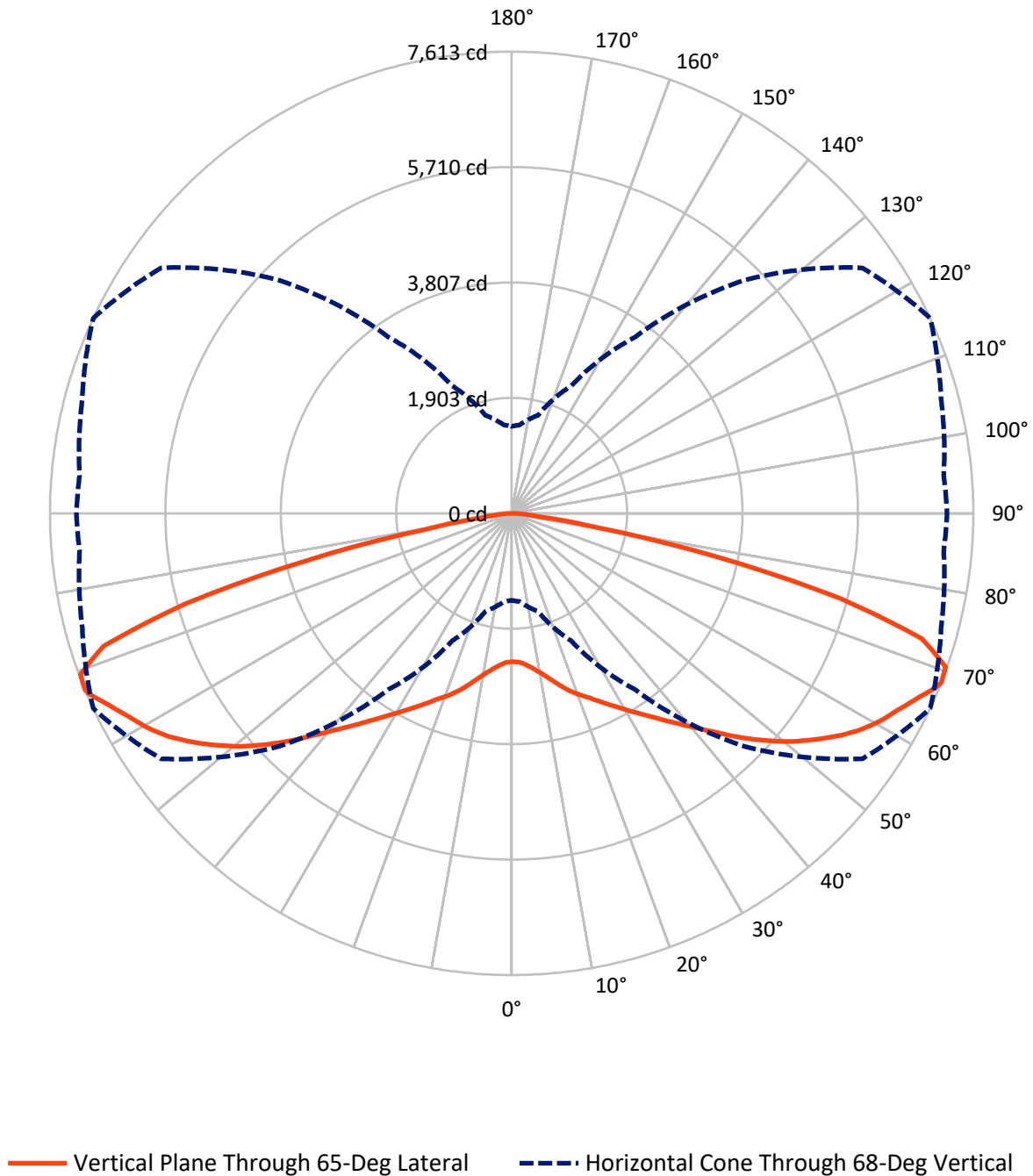
× Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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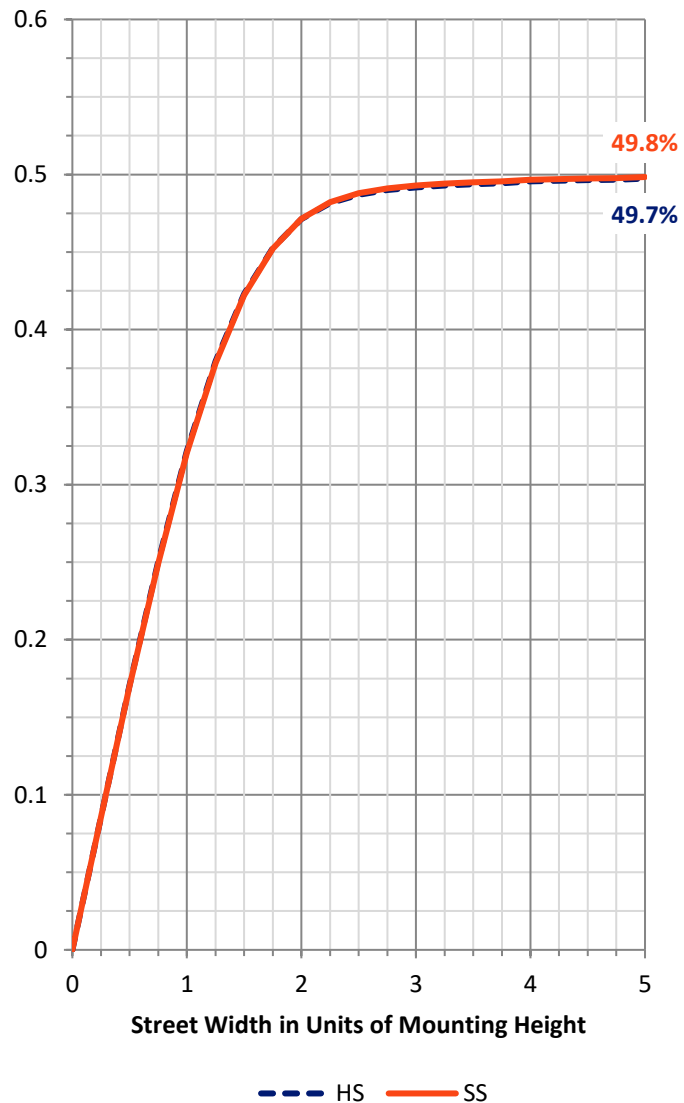
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11759.5	0.0	11759.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11759.5	0.0	11759.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	23519.0	0.0	23519.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.4	1.0
10°-20°	801.7	3.4
20°-30°	1563.1	6.6
30°-40°	2625.9	11.2
40°-50°	4137.4	17.6
50°-60°	5533.1	23.5
60°-70°	5378.9	22.9
70°-80°	2940.4	12.5
80°-90°	299.0	1.3
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°	23519.0	100.0
0°-180°	23519.0	100.0

Coefficient of Utilization



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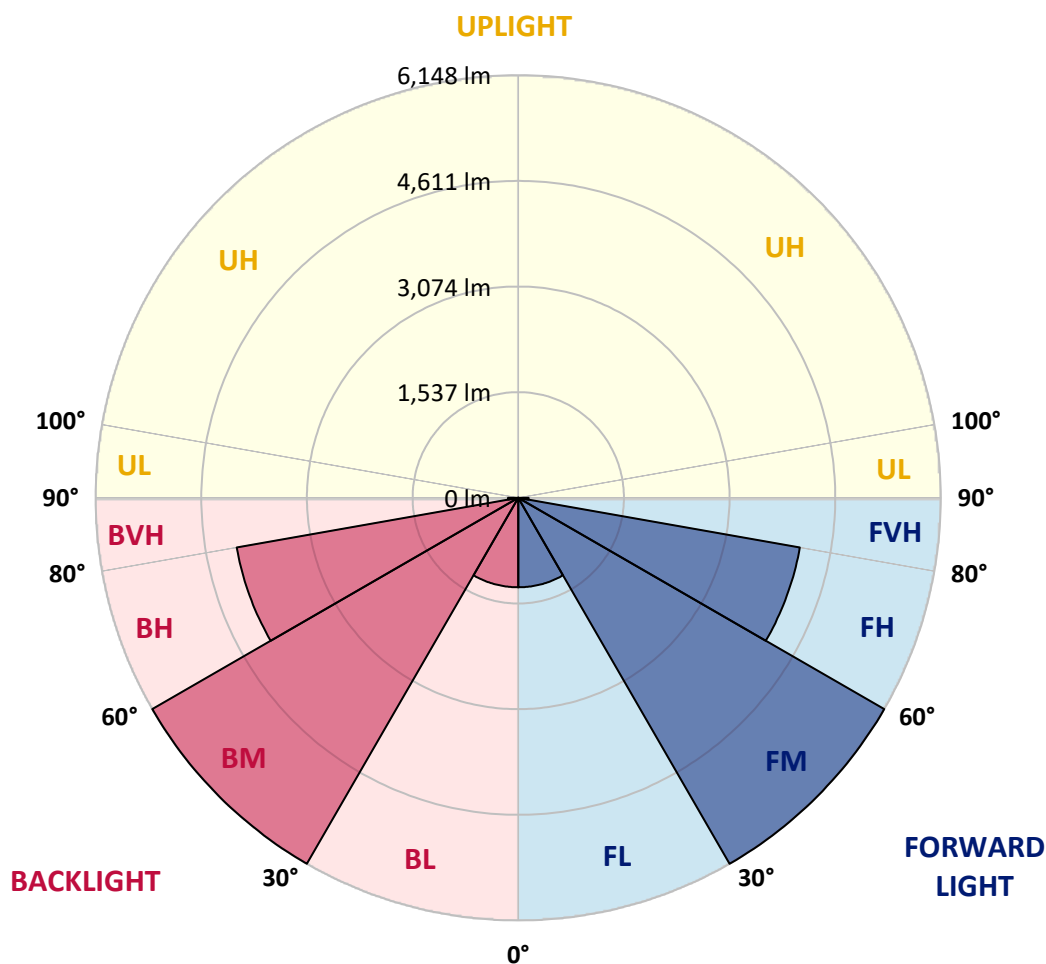
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1302.1	5.5			
FM	(30°-60°)	6148.2	26.1			
FH	(60°-80°)	4159.6	17.7			G2/5000
FVH	(80°-90°)	149.5	0.6			G2/225
BL	(0°-30°)	1302.1	5.5	B3/2500		
BM	(30°-60°)	6148.2	26.1	B4/8500		
BH	(60°-80°)	4159.6	17.7	B4/5000		G4/5000
BVH	(80°-90°)	149.5	0.6			G2/225
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°	2445.4	2445.4	2445.4	2445.4	2445.4	2445.4	2445.4	2445.4	2445.4	2445.4	2445.4
2.5°	2428.1	2428.9	2432.8	2437.5	2441.5	2451.7	2454.1	2458.0	2459.6	2463.6	2463.6
5°	2406.8	2408.4	2417.8	2430.4	2444.6	2469.9	2488.0	2508.5	2518.8	2529.8	2529.0
7.5°	2404.4	2408.4	2421.8	2442.3	2465.9	2507.7	2545.6	2586.6	2614.2	2639.4	2637.8
10°	2428.9	2435.2	2454.1	2484.9	2520.3	2572.4	2628.4	2683.6	2731.7	2770.3	2771.9
12.5°	2465.9	2473.8	2503.8	2550.3	2603.9	2671.0	2737.2	2799.5	2865.7	2923.3	2928.0
15°	2514.8	2525.1	2570.0	2639.4	2721.4	2801.1	2872.1	2935.9	3012.4	3092.1	3100.0
17.5°	2587.4	2601.6	2660.7	2754.6	2862.6	2950.1	3024.2	3072.4	3136.2	3218.2	3233.2
20°	2697.8	2715.9	2790.8	2902.8	3034.5	3126.0	3182.8	3193.0	3224.6	3297.9	3315.2
22.5°	2841.3	2857.1	2940.7	3073.9	3221.4	3320.8	3350.7	3309.7	3306.6	3365.7	3382.3
25°	3001.4	3015.6	3112.6	3262.4	3420.9	3530.5	3529.7	3450.1	3394.9	3440.6	3458.0
27.5°	3181.2	3203.3	3296.3	3454.0	3623.6	3731.6	3725.3	3602.3	3497.4	3509.2	3524.2
30°	3387.8	3412.2	3502.9	3663.0	3832.6	3938.2	3930.3	3767.9	3610.2	3578.6	3589.7
32.5°	3644.1	3673.3	3759.2	3916.9	4066.8	4162.2	4139.3	3947.7	3745.8	3677.2	3687.5
35°	3952.4	3969.8	4060.5	4215.8	4337.3	4402.7	4354.6	4155.9	3917.7	3834.9	3834.9
37.5°	4264.7	4278.1	4379.8	4530.5	4648.0	4682.7	4588.8	4383.8	4142.5	4025.0	4027.3
40°	4564.4	4600.6	4715.0	4869.6	4985.5	4994.9	4870.3	4644.0	4392.5	4271.0	4285.2
42.5°	4877.4	4912.9	5049.4	5224.4	5326.9	5342.7	5196.8	4935.8	4674.8	4576.2	4592.0
45°	5156.6	5185.0	5342.7	5546.2	5673.9	5714.9	5542.2	5270.2	4980.0	4883.7	4887.7
47.5°	5351.4	5388.4	5561.9	5801.7	5987.8	6050.9	5881.3	5595.8	5280.4	5163.7	5173.9
50°	5528.0	5547.7	5723.6	5985.4	6222.0	6352.1	6207.0	5917.6	5584.0	5460.2	5471.2
52.5°	5626.6	5651.8	5822.2	6095.0	6375.0	6584.7	6496.4	6207.0	5877.4	5756.7	5770.1
55°	5558.0	5576.9	5781.2	6119.5	6469.6	6728.3	6741.7	6490.1	6165.2	6059.5	6097.4
57.5°	5245.7	5269.4	5518.6	5961.8	6481.4	6825.3	6926.2	6752.7	6434.1	6348.2	6370.2
60°	4757.6	4772.6	5038.3	5536.7	6251.2	6865.5	7043.7	6967.2	6697.5	6611.6	6641.5
62.5°	3887.8	3909.8	4227.6	4895.6	5764.6	6746.4	7157.3	7144.6	6942.8	6863.9	6890.7
65°	2657.6	2696.2	3047.9	3892.5	5014.7	6382.1	7260.6	7351.3	7159.6	7060.3	7095.7
67.5°	1604.8	1633.2	1887.9	2570.0	3837.3	5647.1	7154.1	7586.3	7312.6	7152.5	7181.7
68°	1434.4	1460.5	1673.4	2319.2	3549.5	5439.7	7057.1	7613.1	7329.2	7150.9	7177.0
70°	866.7	884.0	1026.7	1433.7	2366.6	4315.2	6395.5	7591.0	7434.8	7173.0	7188.0
72.5°	564.6	570.2	593.8	735.8	1208.9	2413.1	4800.2	7073.7	7593.3	7301.6	7299.2
75°	469.2	466.1	468.4	485.0	596.2	1058.3	2805.0	5588.0	7238.5	7098.9	7049.2
77.5°	396.7	394.3	393.5	394.3	399.0	511.0	1217.6	3480.8	5539.1	6279.6	6323.7
80°	321.0	317.8	328.1	323.3	309.1	317.8	510.2	1447.9	2611.0	2809.0	2632.3
82.5°	233.4	221.6	265.8	253.1	241.3	224.0	281.5	467.6	623.0	427.4	300.5
85°	179.8	167.2	201.9	194.0	165.6	114.3	167.2	228.7	252.3	144.3	113.6
87.5°	73.3	77.3	145.9	115.1	97.0	55.2	68.6	91.5	123.0	61.5	47.3
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)