

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: P317299

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317299
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-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: 31500 lumens
Efficiency: N/A
Efficacy: 98.4 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): 320
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

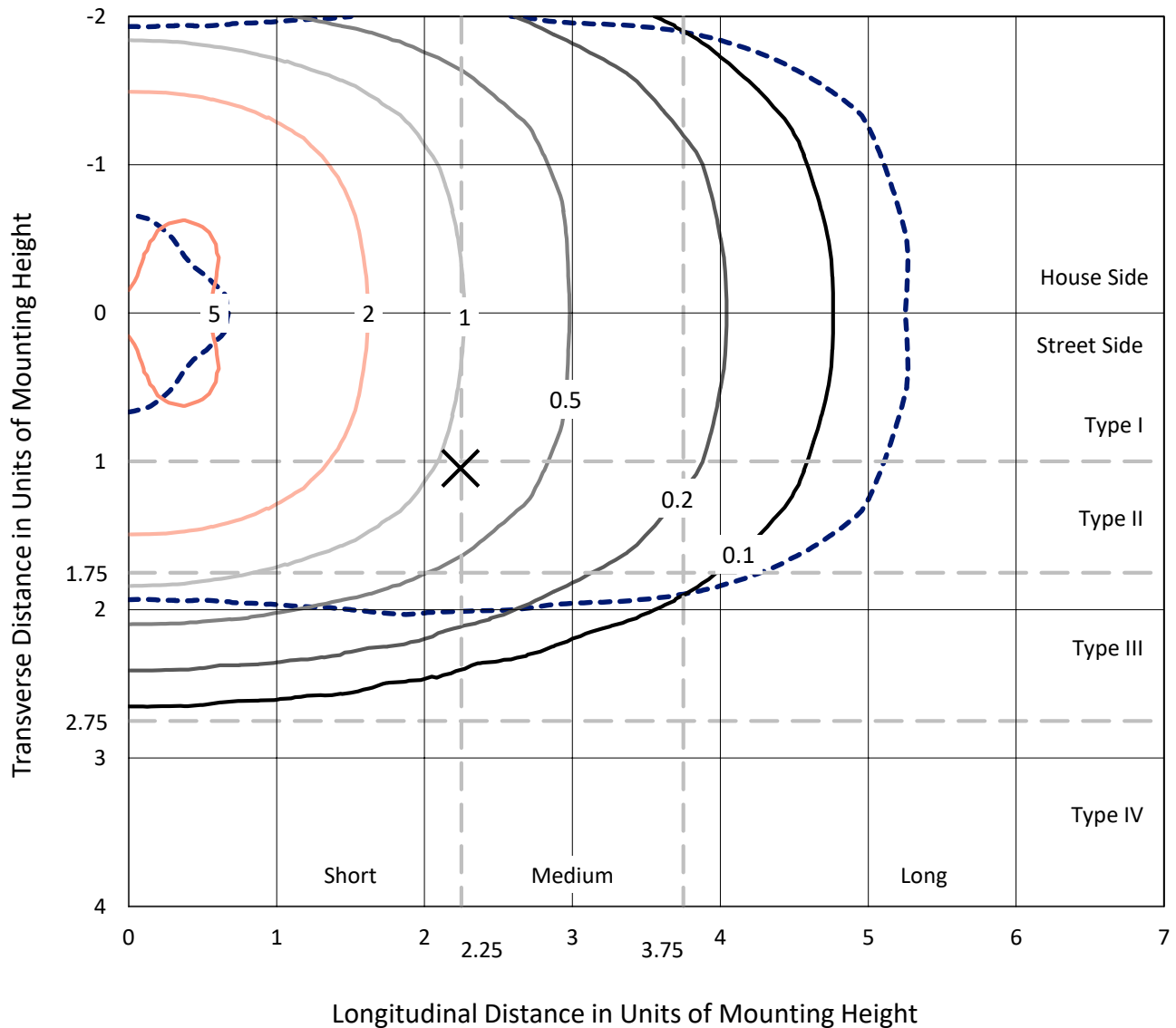


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Iso-Footcandle Lines of Horizontal Illumination

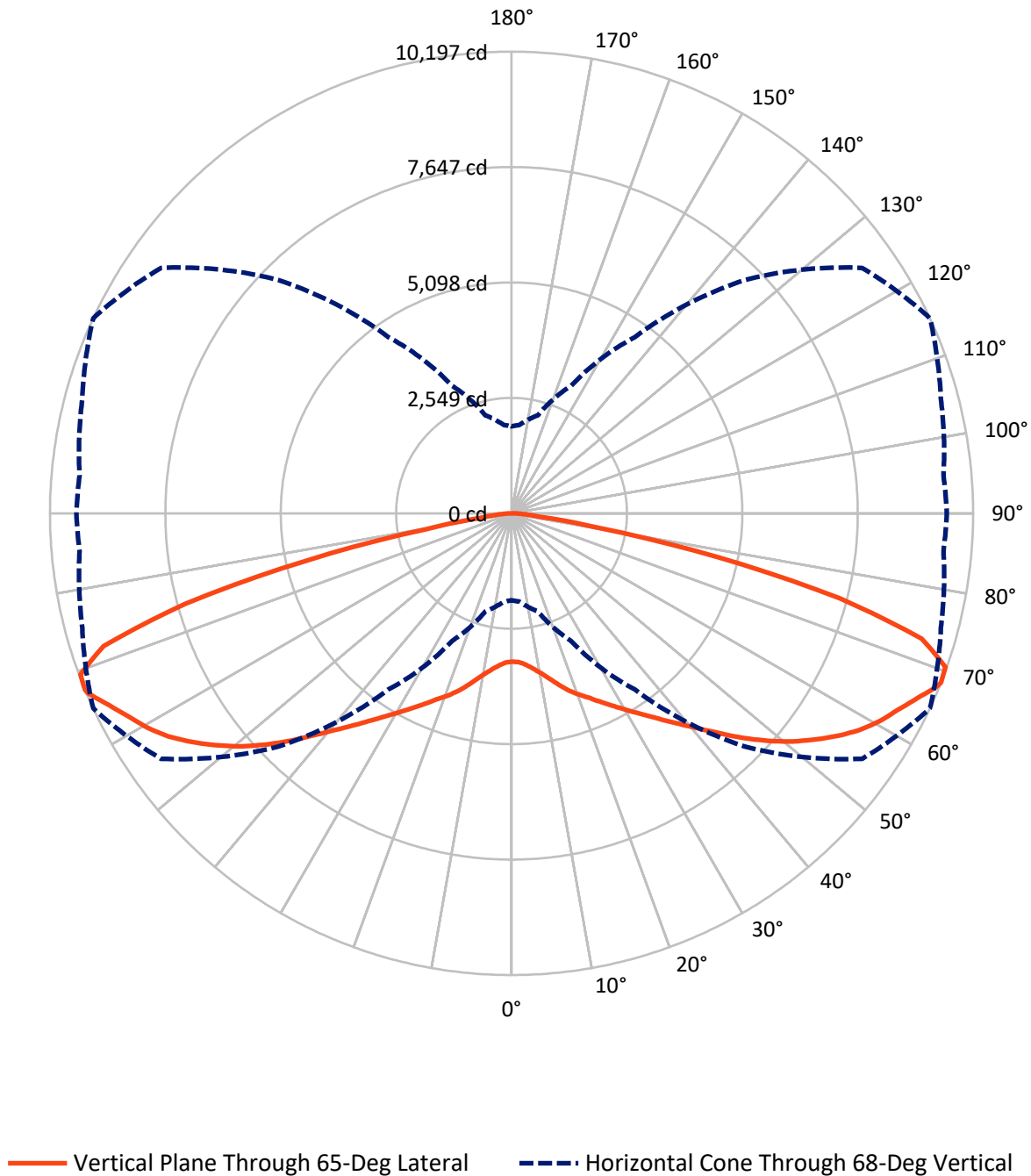
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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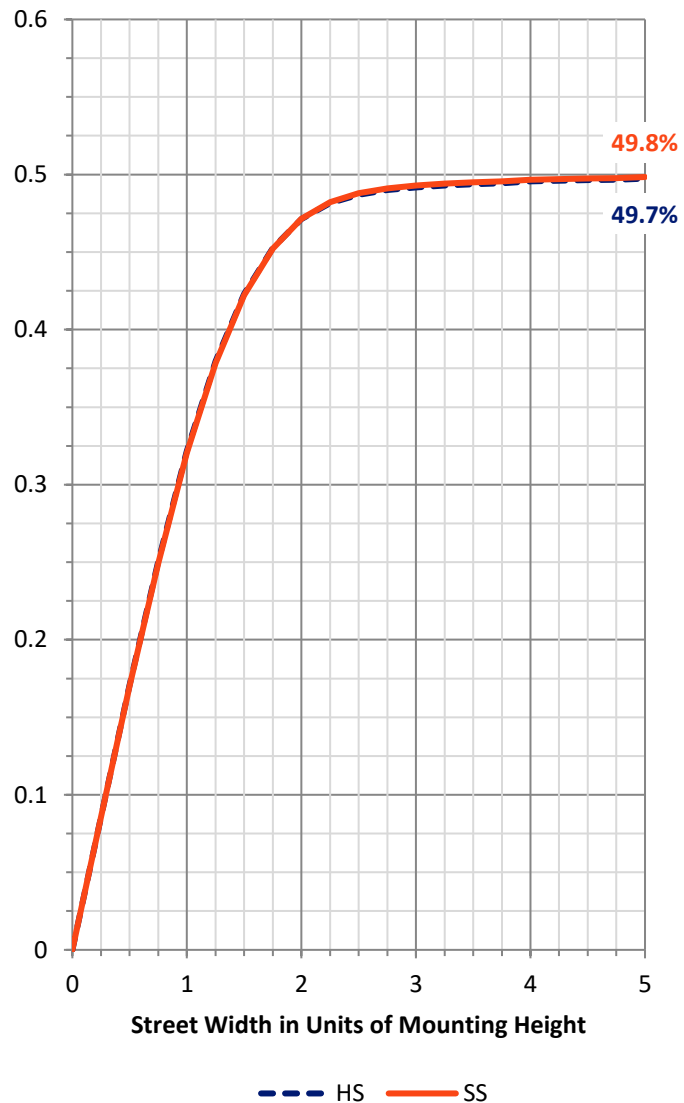
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15750.0	0.0	15750.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15750.0	0.0	15750.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	31500.0	0.0	31500.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.7	1.0
10°-20°	1073.7	3.4
20°-30°	2093.5	6.6
30°-40°	3517.0	11.2
40°-50°	5541.5	17.6
50°-60°	7410.8	23.5
60°-70°	7204.2	22.9
70°-80°	3938.2	12.5
80°-90°	400.5	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°	31500.0	100.0
0°-180°	31500.0	100.0

Coefficient of Utilization



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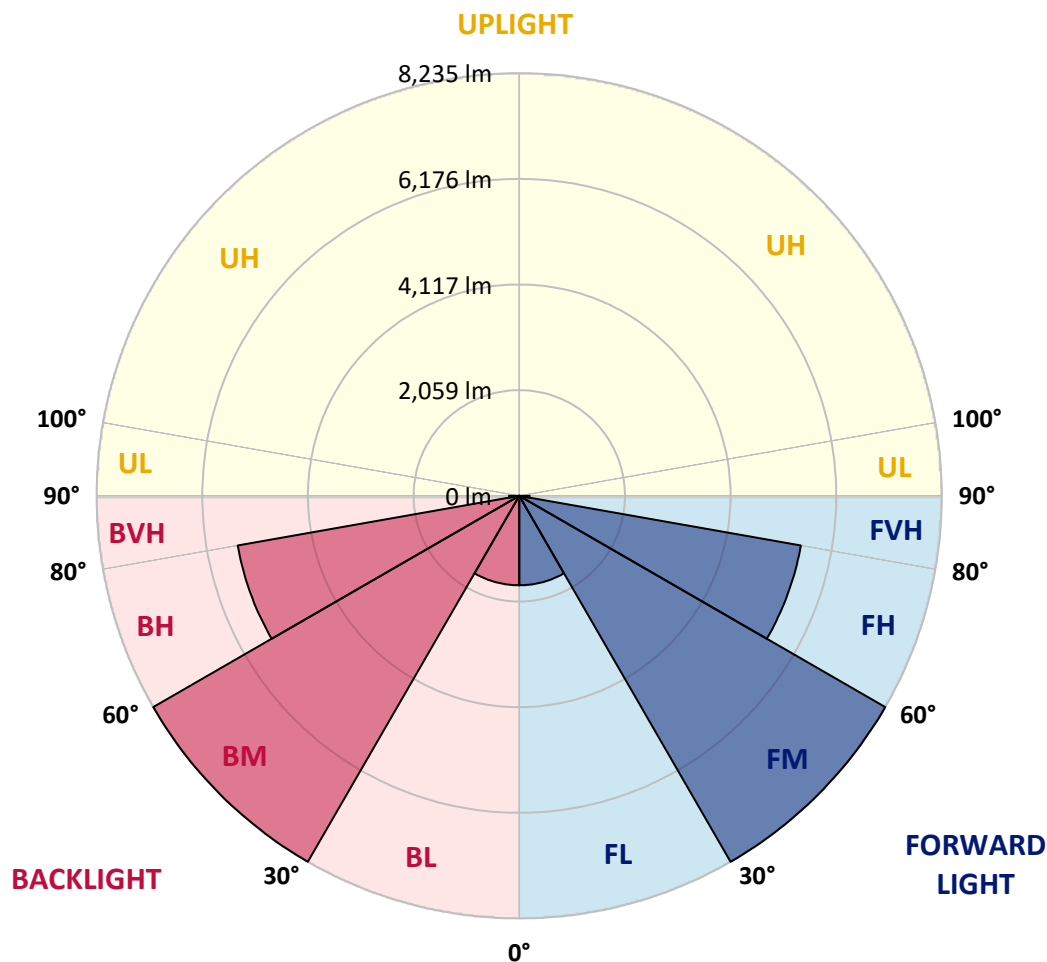
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1744.0	5.5			
FM	(30°-60°)	8234.6	26.1			
FH	(60°-80°)	5571.2	17.7			G3/7500
FVH	(80°-90°)	200.3	0.6			G2/225
BL	(0°-30°)	1744.0	5.5	B3/2500		
BM	(30°-60°)	8234.6	26.1	B4/8500		
BH	(60°-80°)	5571.2	17.7	B5		G5
BVH	(80°-90°)	200.3	0.6			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°	3275.3	3275.3	3275.3	3275.3	3275.3	3275.3	3275.3	3275.3	3275.3	3275.3	3275.3
2.5°	3252.0	3253.1	3258.4	3264.7	3270.0	3283.7	3286.9	3292.2	3294.3	3299.6	3299.6
5°	3223.5	3225.6	3238.3	3255.2	3274.2	3308.0	3332.3	3359.8	3373.5	3388.3	3387.2
7.5°	3220.3	3225.6	3243.6	3271.0	3302.7	3358.7	3409.4	3464.3	3501.3	3535.1	3533.0
10°	3253.1	3261.5	3286.9	3328.1	3375.6	3445.3	3520.3	3594.2	3658.7	3710.4	3712.5
12.5°	3302.7	3313.3	3353.4	3415.7	3487.6	3577.3	3666.1	3749.5	3838.2	3915.3	3921.6
15°	3368.2	3381.9	3442.1	3535.1	3644.9	3751.6	3846.7	3932.2	4034.7	4141.3	4151.9
17.5°	3465.4	3484.4	3563.6	3689.3	3834.0	3951.2	4050.5	4114.9	4200.5	4310.3	4330.4
20°	3613.2	3637.5	3737.9	3887.9	4064.2	4186.8	4262.8	4276.5	4318.8	4417.0	4440.2
22.5°	3805.5	3826.6	3938.5	4117.0	4314.6	4447.6	4487.8	4432.8	4428.6	4507.8	4530.0
25°	4019.9	4038.9	4168.8	4369.5	4581.8	4728.6	4727.5	4620.9	4546.9	4608.2	4631.4
27.5°	4260.7	4290.3	4414.9	4626.1	4853.2	4997.9	4989.5	4824.7	4684.2	4700.1	4720.1
30°	4537.4	4570.2	4691.6	4906.0	5133.1	5274.6	5264.1	5046.5	4835.3	4793.0	4807.8
32.5°	4880.7	4919.8	5034.9	5246.1	5446.8	5574.6	5544.0	5287.3	5016.9	4925.0	4938.8
35°	5293.6	5316.9	5438.3	5646.4	5809.1	5896.7	5832.3	5566.1	5247.2	5136.3	5136.3
37.5°	5711.9	5729.9	5866.1	6067.8	6225.2	6271.7	6146.0	5871.4	5548.2	5390.8	5394.0
40°	6113.3	6161.8	6315.0	6522.0	6677.3	6689.9	6523.1	6219.9	5883.0	5720.3	5739.4
42.5°	6532.6	6580.1	6762.8	6997.3	7134.6	7155.7	6960.3	6610.7	6261.1	6129.1	6150.2
45°	6906.5	6944.5	7155.7	7428.2	7599.3	7654.2	7422.9	7058.5	6669.9	6541.0	6546.3
47.5°	7167.3	7217.0	7449.3	7770.4	8019.7	8104.2	7877.1	7494.8	7072.3	6916.0	6929.7
50°	7403.9	7430.3	7665.9	8016.5	8333.4	8507.6	8313.3	7925.7	7478.9	7313.1	7327.9
52.5°	7535.9	7569.7	7797.9	8163.3	8538.3	8819.2	8700.9	8313.3	7871.8	7710.2	7728.2
55°	7444.1	7469.4	7743.0	8196.1	8665.0	9011.5	9029.4	8692.5	8257.3	8115.8	8166.5
57.5°	7025.8	7057.5	7391.2	7984.8	8680.9	9141.4	9276.6	9044.2	8617.5	8502.4	8531.9
60°	6372.0	6392.1	6748.0	7415.5	8372.5	9195.2	9433.9	9331.5	8970.3	8855.1	8895.3
62.5°	5207.0	5236.6	5662.3	6556.9	7720.8	9035.7	9586.0	9569.1	9298.7	9193.1	9229.0
65°	3559.4	3611.1	4082.2	5213.4	6716.3	8547.8	9724.4	9845.8	9589.2	9456.1	9503.6
67.5°	2149.4	2187.4	2528.5	3442.1	5139.4	7563.4	9581.8	10160.6	9794.1	9579.7	9618.8
68°	1921.2	1956.1	2241.2	3106.3	4753.9	7285.6	9451.9	10196.5	9816.3	9577.6	9612.4
70°	1160.8	1184.0	1375.2	1920.2	3169.6	5779.5	8565.7	10166.9	9957.8	9607.1	9627.2
72.5°	756.2	763.6	795.3	985.4	1619.1	3232.0	6429.1	9474.1	10170.1	9779.3	9776.1
75°	628.4	624.2	627.4	649.6	798.5	1417.4	3756.9	7484.2	9694.8	9507.9	9441.3
77.5°	531.3	528.1	527.0	528.1	534.4	684.4	1630.8	4662.0	7418.7	8410.5	8469.6
80°	429.9	425.6	439.4	433.0	414.0	425.6	683.4	1939.2	3497.1	3762.2	3525.6
82.5°	312.6	296.8	355.9	339.0	323.2	300.0	377.1	626.3	834.4	572.5	402.4
85°	240.8	223.9	270.4	259.8	221.8	153.1	223.9	306.3	338.0	193.3	152.1
87.5°	98.2	103.5	195.4	154.2	129.9	73.9	91.9	122.5	164.8	82.4	63.4
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)