

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: P317233

Luminaire Tested: **GAN-SA9A-827-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317233
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-SA9A-827-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31307 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 290
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



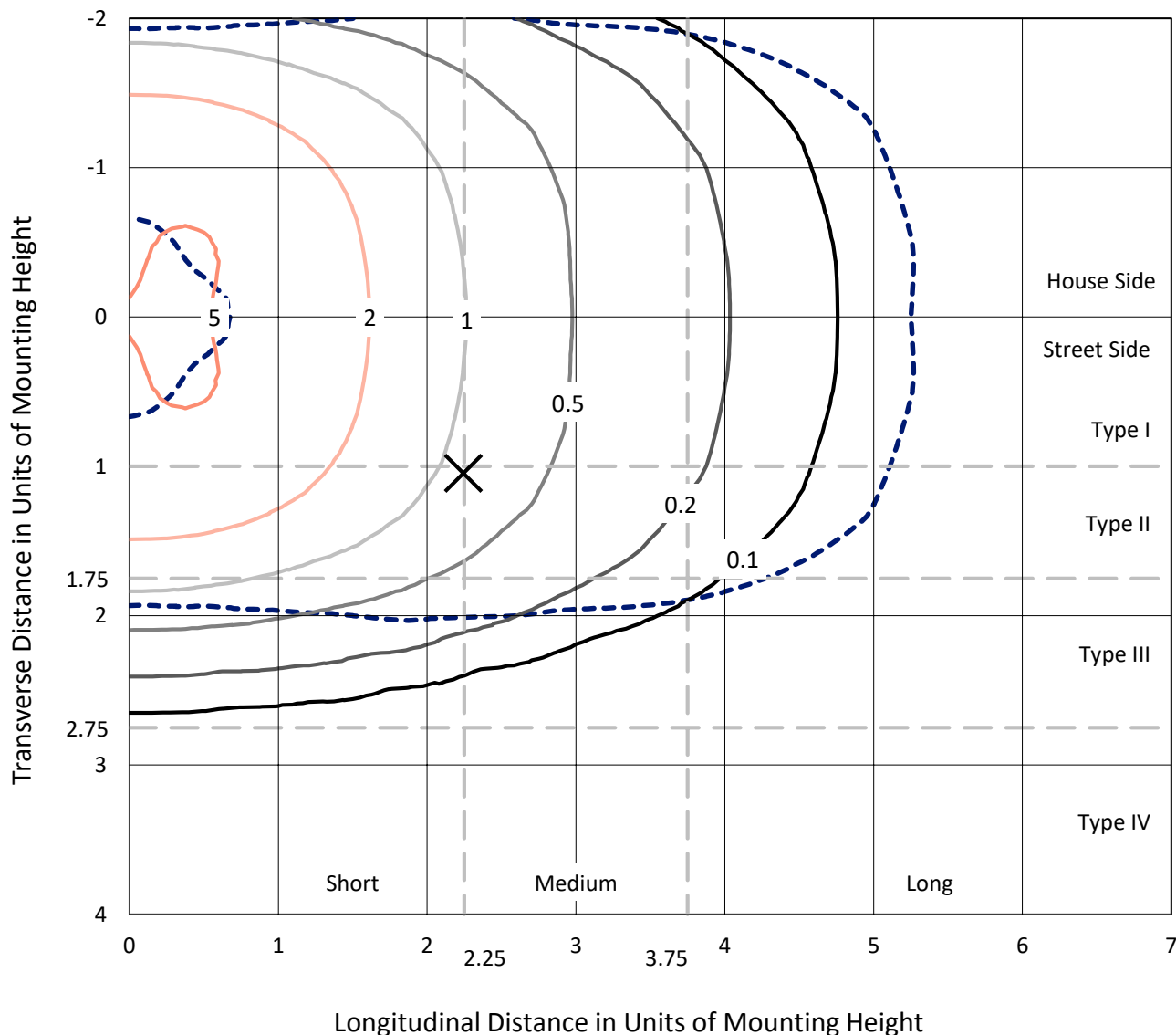
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

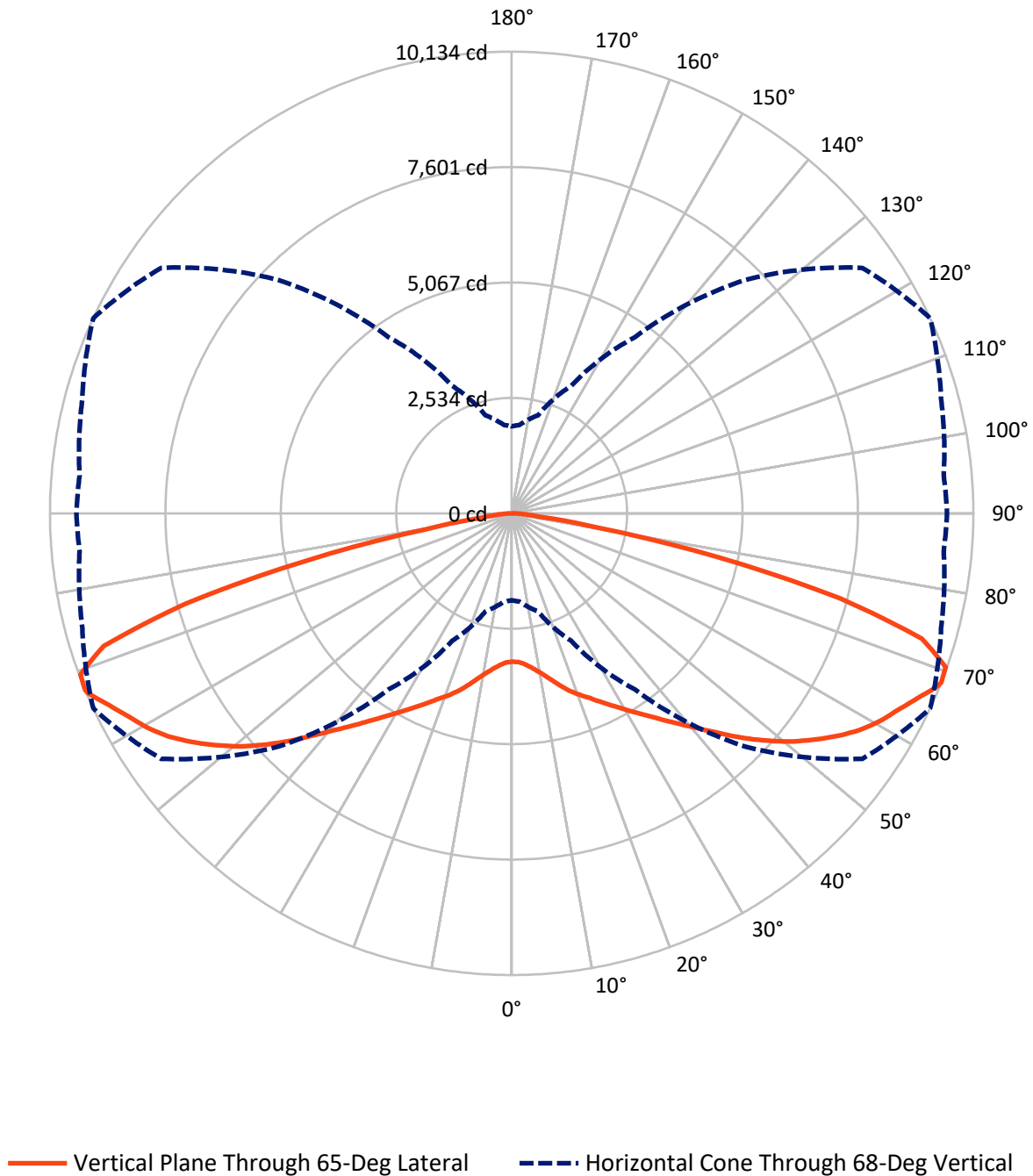
--- 1/2 Max cd



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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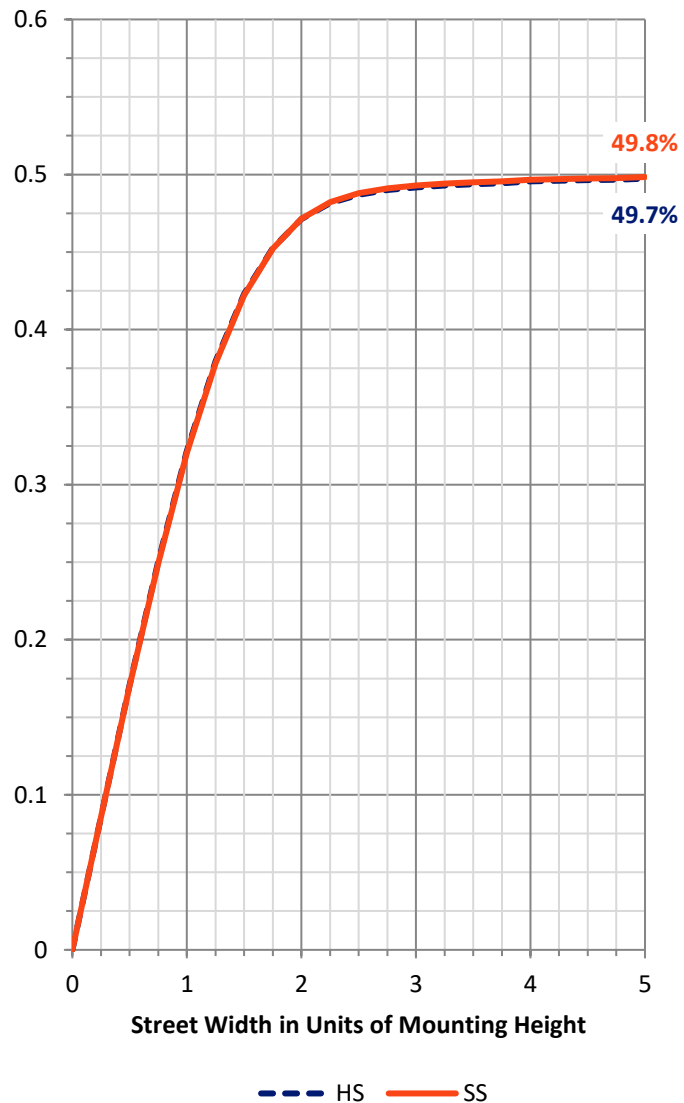
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15653.5	0.0	15653.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15653.5	0.0	15653.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	31307.0	0.0	31307.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.7	1.0
10°-20°	1067.2	3.4
20°-30°	2080.7	6.6
30°-40°	3495.4	11.2
40°-50°	5507.5	17.6
50°-60°	7365.4	23.5
60°-70°	7160.1	22.9
70°-80°	3914.0	12.5
80°-90°	398.1	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°	31307.0	100.0
0°-180°	31307.0	100.0

Coefficient of Utilization



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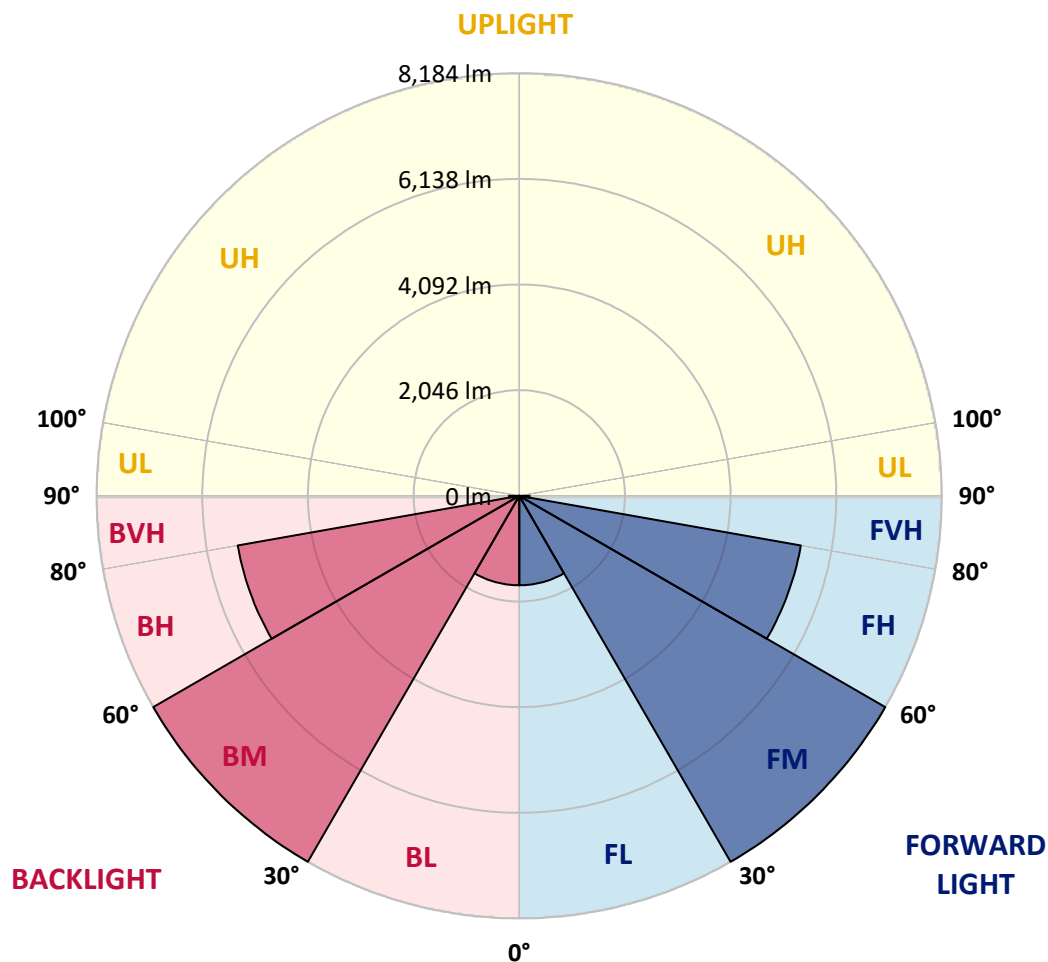
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1733.3	5.5			
FM	(30°-60°)	8184.1	26.1			
FH	(60°-80°)	5537.1	17.7			G3/7500
FVH	(80°-90°)	199.0	0.6			G2/225
BL	(0°-30°)	1733.3	5.5	B3/2500		
BM	(30°-60°)	8184.1	26.1	B4/8500		
BH	(60°-80°)	5537.1	17.7	B5		G5
BVH	(80°-90°)	199.0	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°	3255.2	3255.2	3255.2	3255.2	3255.2	3255.2	3255.2	3255.2	3255.2	3255.2	3255.2
2.5°	3232.1	3233.1	3238.4	3244.7	3249.9	3263.6	3266.7	3272.0	3274.1	3279.3	3279.3
5°	3203.8	3205.9	3218.5	3235.2	3254.1	3287.7	3311.9	3339.2	3352.8	3367.5	3366.5
7.5°	3200.6	3205.9	3223.7	3251.0	3282.5	3338.1	3388.5	3443.1	3479.8	3513.4	3511.3
10°	3233.1	3241.5	3266.7	3307.7	3354.9	3424.2	3498.7	3572.2	3636.2	3687.7	3689.8
12.5°	3282.5	3293.0	3332.9	3394.8	3466.2	3555.4	3643.6	3726.5	3814.7	3891.3	3897.6
15°	3347.6	3361.2	3421.0	3513.4	3622.6	3728.6	3823.1	3908.1	4009.9	4116.0	4126.5
17.5°	3444.1	3463.0	3541.8	3666.7	3810.5	3927.0	4025.7	4089.7	4174.7	4283.9	4303.9
20°	3591.1	3615.2	3715.0	3864.0	4039.3	4161.1	4236.7	4250.3	4292.3	4389.9	4413.0
22.5°	3782.2	3803.1	3914.4	4091.8	4288.1	4420.4	4460.3	4405.7	4401.5	4480.2	4502.3
25°	3995.2	4014.1	4143.3	4342.7	4553.7	4699.6	4698.6	4592.5	4519.1	4579.9	4603.0
27.5°	4234.6	4264.0	4387.8	4597.8	4823.5	4967.3	4958.9	4795.1	4655.5	4671.3	4691.2
30°	4509.6	4542.2	4662.9	4876.0	5101.7	5242.3	5231.8	5015.6	4805.6	4763.6	4778.3
32.5°	4850.8	4889.6	5004.0	5214.0	5413.4	5540.4	5510.0	5254.9	4986.2	4894.9	4908.5
35°	5261.2	5284.3	5405.0	5611.8	5773.5	5860.6	5796.6	5532.0	5215.0	5104.8	5104.8
37.5°	5676.9	5694.7	5830.2	6030.7	6187.1	6233.3	6108.3	5835.4	5514.2	5357.8	5360.9
40°	6075.8	6124.1	6276.3	6482.0	6636.3	6648.9	6483.1	6181.8	5847.0	5685.3	5704.2
42.5°	6492.5	6539.8	6721.4	6954.4	7090.9	7111.9	6917.7	6570.2	6222.8	6091.5	6112.5
45°	6864.1	6901.9	7111.9	7382.7	7552.8	7607.3	7377.5	7015.3	6629.0	6500.9	6506.2
47.5°	7123.4	7172.8	7403.7	7722.8	7970.5	8054.5	7828.8	7448.8	7028.9	6873.6	6887.2
50°	7358.6	7384.8	7618.9	7967.4	8282.3	8455.5	8262.4	7877.1	7433.1	7268.3	7283.0
52.5°	7489.8	7523.4	7750.1	8113.3	8486.0	8765.2	8647.6	8262.4	7823.6	7663.0	7680.8
55°	7398.4	7423.6	7695.5	8145.9	8611.9	8956.2	8974.1	8639.2	8206.7	8066.1	8116.5
57.5°	6982.8	7014.2	7346.0	7935.9	8627.7	9085.4	9219.7	8988.8	8564.7	8450.3	8479.7
60°	6333.0	6352.9	6706.7	7370.1	8321.2	9138.9	9376.1	9274.3	8915.3	8800.9	8840.8
62.5°	5175.1	5204.5	5627.6	6516.7	7673.5	8980.4	9527.3	9510.5	9241.8	9136.8	9172.5
65°	3537.6	3589.0	4057.2	5181.4	6675.2	8495.4	9664.8	9785.5	9530.4	9398.2	9445.4
67.5°	2136.2	2174.0	2513.0	3421.0	5108.0	7517.1	9523.1	10098.3	9734.1	9521.0	9559.8
68°	1909.4	1944.1	2227.5	3087.2	4724.8	7241.0	9394.0	10134.0	9756.1	9518.9	9553.5
70°	1153.6	1176.7	1366.7	1908.4	3150.2	5744.1	8513.3	10104.6	9896.8	9548.3	9568.2
72.5°	751.6	758.9	790.4	979.4	1609.2	3212.2	6389.7	9416.0	10107.8	9719.4	9716.2
75°	624.6	620.4	623.5	645.6	793.6	1408.7	3733.9	7438.3	9635.4	9449.6	9383.5
77.5°	528.0	524.9	523.8	524.9	531.2	680.2	1620.8	4633.5	7373.3	8358.9	8417.7
80°	427.2	423.0	436.7	430.4	411.5	423.0	679.2	1927.3	3475.6	3739.1	3504.0
82.5°	310.7	295.0	353.8	337.0	321.2	298.1	374.8	622.5	829.3	568.9	399.9
85°	239.3	222.5	268.7	258.2	220.4	152.2	222.5	304.4	335.9	192.1	151.2
87.5°	97.6	102.9	194.2	153.3	129.1	73.5	91.3	121.8	163.8	81.9	63.0
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)