

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: P317229

Luminaire Tested: **GAN-SA5A-827-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317229
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-SA5A-827-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 17502 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

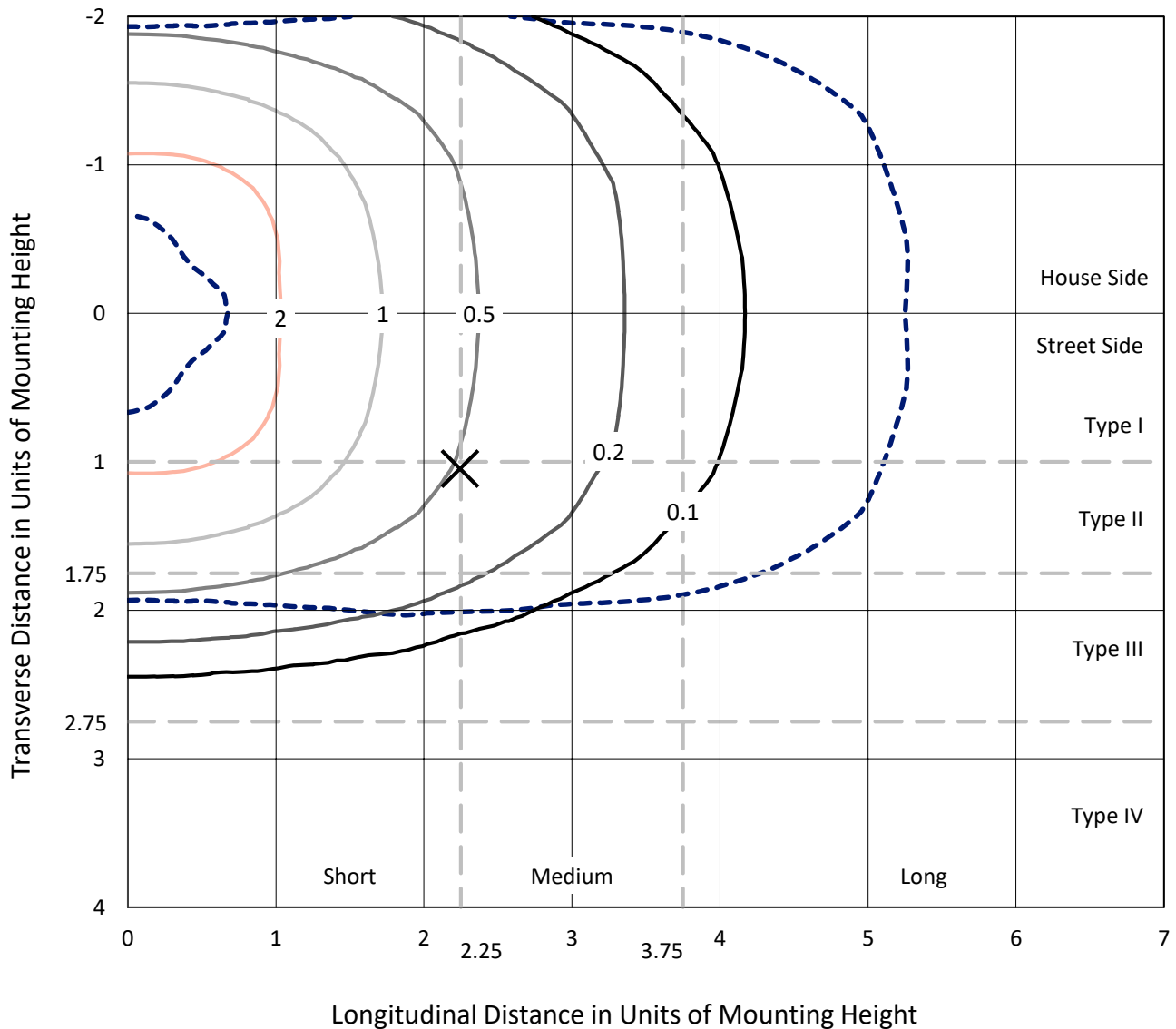
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

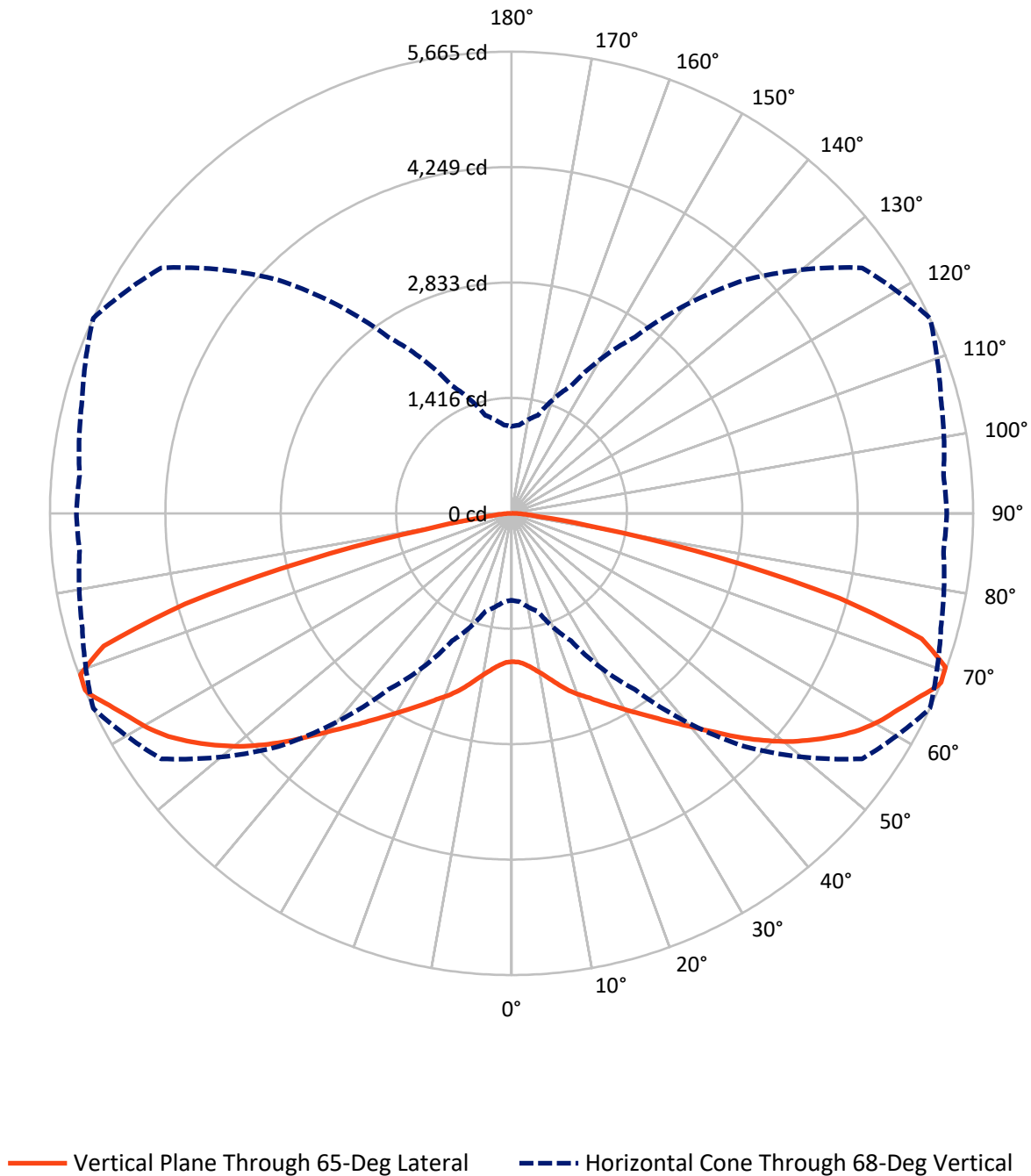
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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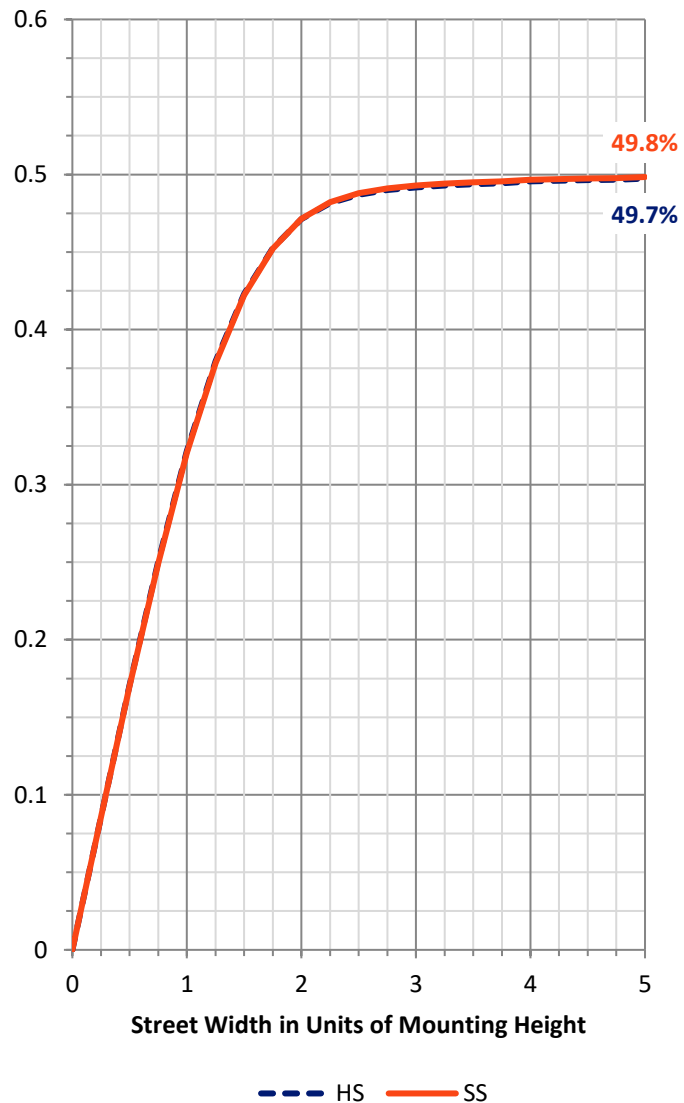
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8751.0	0.0	8751.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8751.0	0.0	8751.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17502.0	0.0	17502.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.2	1.0
10°-20°	596.6	3.4
20°-30°	1163.2	6.6
30°-40°	1954.1	11.2
40°-50°	3078.9	17.6
50°-60°	4117.6	23.5
60°-70°	4002.8	22.9
70°-80°	2188.1	12.5
80°-90°	222.5	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°	17502.0	100.0
0°-180°	17502.0	100.0

Coefficient of Utilization



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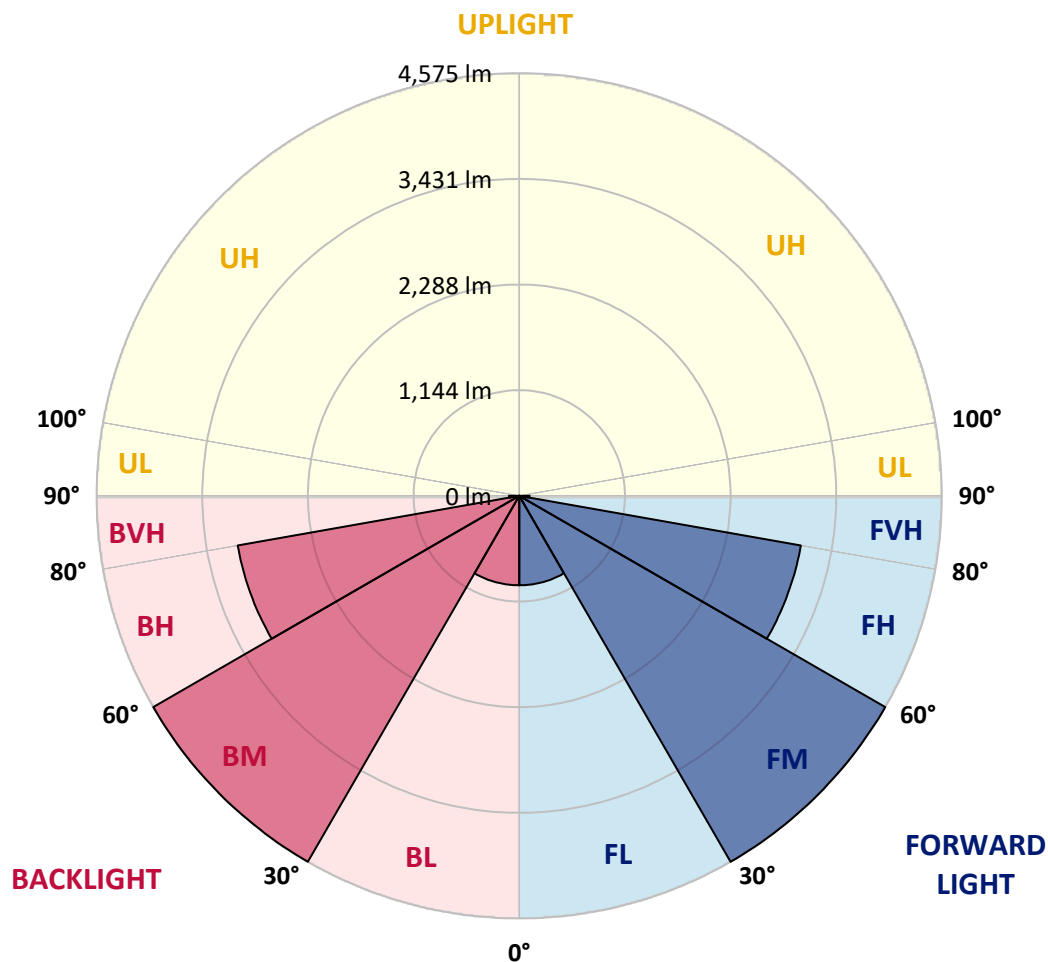
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	969.0	5.5			
FM	(30°-60°)	4575.3	26.1			
FH	(60°-80°)	3095.5	17.7			G2/5000
FVH	(80°-90°)	111.3	0.6			G2/225
BL	(0°-30°)	969.0	5.5	B2/1000		
BM	(30°-60°)	4575.3	26.1	B3/5000		
BH	(60°-80°)	3095.5	17.7	B4/5000		G4/5000
BVH	(80°-90°)	111.3	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1819.8	1819.8	1819.8	1819.8	1819.8	1819.8	1819.8	1819.8	1819.8	1819.8	1819.8
2.5°	1806.9	1807.5	1810.4	1813.9	1816.9	1824.5	1826.3	1829.2	1830.4	1833.3	1833.3
5°	1791.0	1792.2	1799.3	1808.6	1819.2	1838.0	1851.5	1866.7	1874.4	1882.6	1882.0
7.5°	1789.3	1792.2	1802.2	1817.4	1835.1	1866.2	1894.3	1924.8	1945.4	1964.2	1963.0
10°	1807.5	1812.2	1826.3	1849.1	1875.5	1914.3	1955.9	1997.0	2032.8	2061.6	2062.7
12.5°	1835.1	1840.9	1863.2	1897.8	1937.8	1987.6	2036.9	2083.3	2132.6	2175.4	2178.9
15°	1871.4	1879.1	1912.5	1964.2	2025.2	2084.5	2137.3	2184.8	2241.7	2301.0	2306.9
17.5°	1925.4	1936.0	1980.0	2049.8	2130.2	2195.4	2250.5	2286.3	2333.9	2394.9	2406.1
20°	2007.6	2021.1	2076.8	2160.2	2258.2	2326.2	2368.5	2376.1	2399.6	2454.2	2467.1
22.5°	2114.4	2126.1	2188.3	2287.5	2397.2	2471.2	2493.5	2463.0	2460.6	2504.6	2517.0
25°	2233.5	2244.1	2316.3	2427.8	2545.7	2627.3	2626.7	2567.4	2526.4	2560.4	2573.3
27.5°	2367.3	2383.8	2453.0	2570.4	2696.5	2776.9	2772.2	2680.7	2602.6	2611.4	2622.6
30°	2521.1	2539.3	2606.8	2725.9	2852.1	2930.7	2924.8	2803.9	2686.6	2663.1	2671.3
32.5°	2711.8	2733.5	2797.5	2914.8	3026.3	3097.4	3080.3	2937.7	2787.5	2736.4	2744.1
35°	2941.3	2954.2	3021.6	3137.3	3227.6	3276.3	3240.5	3092.7	2915.4	2853.8	2853.8
37.5°	3173.6	3183.6	3259.3	3371.4	3458.8	3484.7	3414.8	3262.3	3082.7	2995.2	2997.0
40°	3396.6	3423.6	3508.7	3623.7	3710.0	3717.1	3624.3	3455.9	3268.7	3178.3	3188.9
42.5°	3629.6	3656.0	3757.5	3887.8	3964.1	3975.9	3867.3	3673.0	3478.8	3405.4	3417.2
45°	3837.4	3858.5	3975.9	4127.3	4222.3	4252.8	4124.3	3921.9	3705.9	3634.3	3637.2
47.5°	3982.3	4009.9	4139.0	4317.4	4455.9	4502.8	4376.7	4164.2	3929.5	3842.6	3850.3
50°	4113.8	4128.4	4259.3	4454.1	4630.2	4727.0	4619.0	4403.7	4155.4	4063.3	4071.5
52.5°	4187.1	4205.9	4332.7	4535.7	4744.0	4900.1	4834.4	4619.0	4373.7	4283.9	4293.9
55°	4136.1	4150.1	4302.1	4553.9	4814.4	5006.9	5016.9	4829.7	4587.9	4509.3	4537.5
57.5°	3903.7	3921.3	4106.7	4436.5	4823.3	5079.1	5154.2	5025.1	4788.0	4724.1	4740.5
60°	3540.4	3551.6	3749.3	4120.2	4651.9	5109.0	5241.7	5184.7	4984.0	4920.1	4942.4
62.5°	2893.1	2909.6	3146.1	3643.1	4289.8	5020.4	5326.2	5316.8	5166.6	5107.9	5127.8
65°	1977.7	2006.4	2268.1	2896.7	3731.7	4749.3	5403.1	5470.5	5327.9	5254.0	5280.4
67.5°	1194.2	1215.3	1404.9	1912.5	2855.6	4202.4	5323.8	5645.4	5441.8	5322.7	5344.4
68°	1067.5	1086.8	1245.3	1725.9	2641.4	4048.0	5251.6	5665.4	5454.1	5321.5	5340.8
70°	644.9	657.8	764.1	1066.9	1761.1	3211.2	4759.3	5648.9	5532.7	5337.9	5349.1
72.5°	420.2	424.3	441.9	547.5	899.6	1795.7	3572.1	5264.0	5650.7	5433.6	5431.8
75°	349.2	346.8	348.6	360.9	443.7	787.5	2087.4	4158.4	5386.6	5282.7	5245.8
77.5°	295.2	293.4	292.8	293.4	296.9	380.3	906.1	2590.3	4122.0	4673.0	4705.9
80°	238.8	236.5	244.1	240.6	230.0	236.5	379.7	1077.4	1943.0	2090.3	1958.9
82.5°	173.7	164.9	197.8	188.4	179.6	166.7	209.5	348.0	463.6	318.1	223.6
85°	133.8	124.4	150.2	144.4	123.2	85.1	124.4	170.2	187.8	107.4	84.5
87.5°	54.6	57.5	108.6	85.7	72.2	41.1	51.1	68.1	91.5	45.8	35.2
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)