

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: P842521

Luminaire Tested: **ARCH4-60-727-U-5WQ**

Issue Date: 5/27/2024

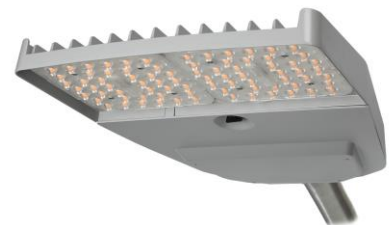
Test Information

Test Method: LM-79-08
Report Number: P842521
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-60-727-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 520mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10503 lumens
Efficiency: N/A
Efficacy: 166.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B3 - U0 - G2

Input Watts (W): 63
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



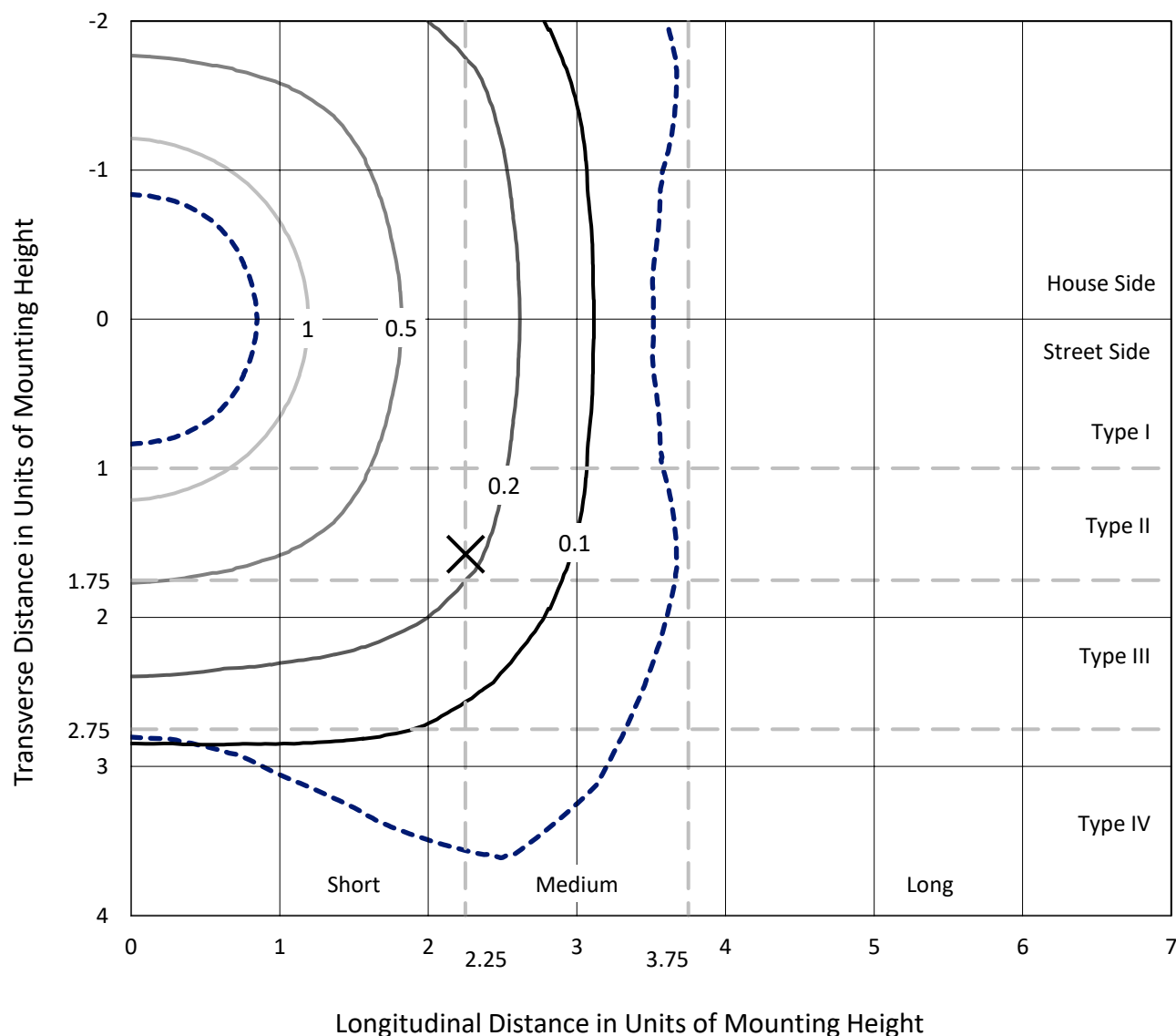
REPORT NUMBER: P842521

CATALOG NUMBER: ARCH4-60-727-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

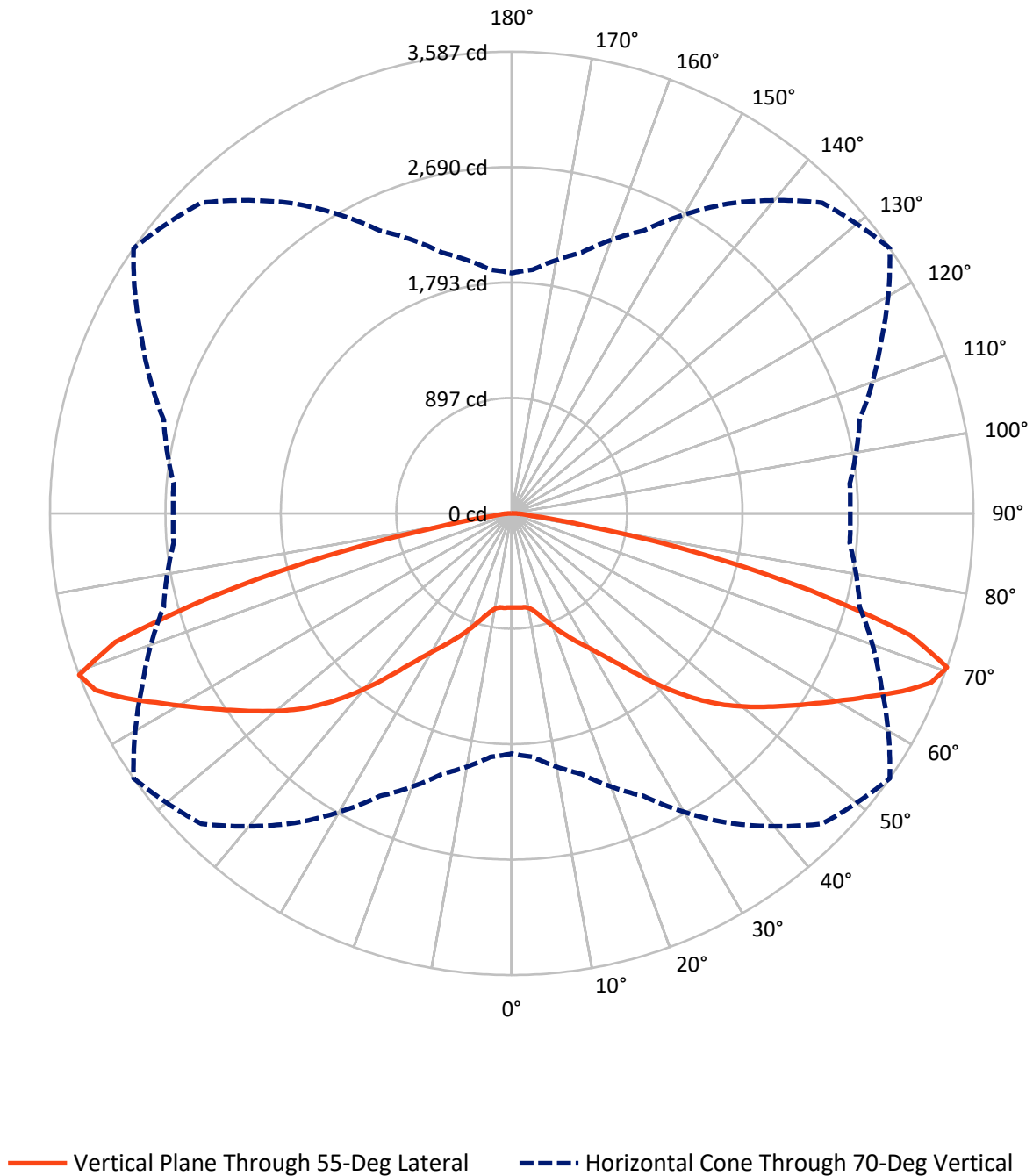
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type V - Medium - N/A

REPORT NUMBER: P842521
CATALOG NUMBER: ARCH4-60-727-U-5WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P842521

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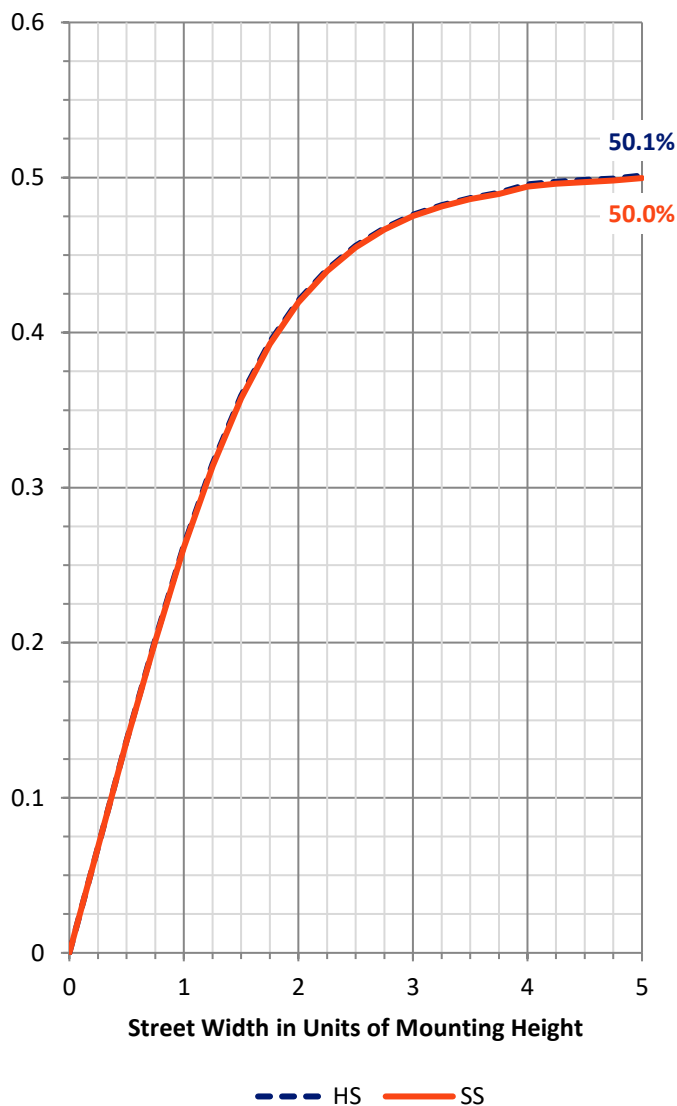
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5251.5	0.0	5251.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5251.5	0.0	5251.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10503.0	0.0	10503.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.7	0.7
10°-20°	240.6	2.3
20°-30°	499.9	4.8
30°-40°	923.2	8.8
40°-50°	1621.9	15.4
50°-60°	2339.1	22.3
60°-70°	2862.8	27.3
70°-80°	1821.7	17.3
80°-90°	123.3	1.2
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°	10503.0	100.0
0°-180°	10503.0	100.0

Coefficient of Utilization



REPORT NUMBER: P842521

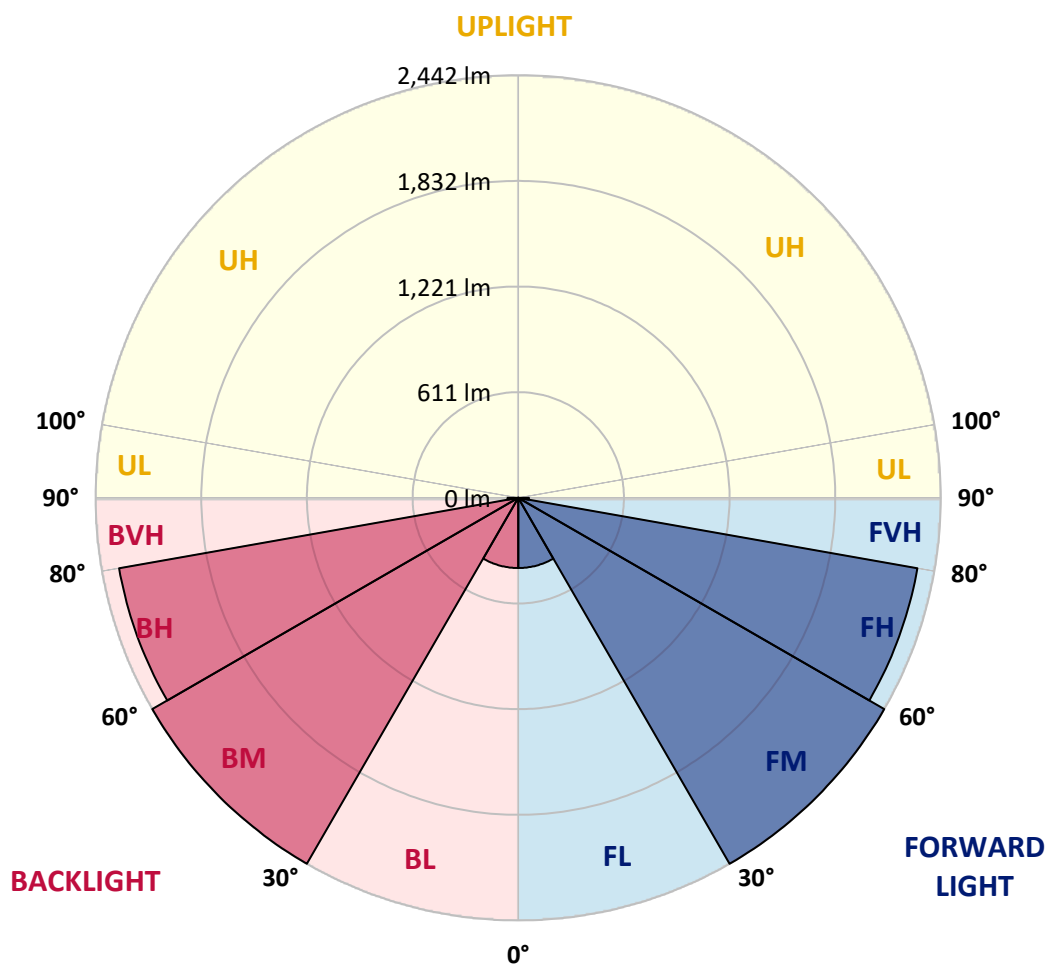
CATALOG NUMBER: ARCH4-60-727-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	405.5	3.9			
FM	(30°-60°)	2442.1	23.3			
FH	(60°-80°)	2342.2	22.3			G2/5000
FVH	(80°-90°)	61.6	0.6			G1/100
BL	(0°-30°)	405.5	3.9	B1/500		
BM	(30°-60°)	2442.1	23.3	B2/2500		
BH	(60°-80°)	2342.2	22.3	B3/2500		G2/5000
BVH	(80°-90°)	61.6	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	732.2	732.2	732.2	732.2	732.2	732.2	732.2	732.2	732.2	732.2	732.2
2.5°	741.9	741.9	740.0	740.0	736.1	734.1	732.2	732.2	730.2	730.2	728.3
5°	745.8	745.8	745.8	743.9	741.9	740.0	736.1	732.2	730.2	728.3	726.3
7.5°	747.8	747.8	745.8	745.8	743.9	741.9	736.1	730.2	728.3	726.3	726.3
10°	763.4	761.4	759.5	755.6	755.6	755.6	747.8	741.9	740.0	740.0	740.0
12.5°	800.5	798.5	794.6	788.8	788.8	790.7	779.0	771.2	771.2	769.3	769.3
15°	855.2	853.2	849.3	839.5	837.6	841.5	823.9	816.1	816.1	816.1	814.2
17.5°	915.7	911.8	905.9	898.1	898.1	898.1	880.5	870.8	864.9	864.9	863.0
20°	966.4	964.5	964.5	962.5	968.4	968.4	945.0	929.4	915.7	907.9	905.9
22.5°	1011.4	1009.4	1013.3	1021.1	1032.8	1036.7	1009.4	986.0	964.5	948.9	945.0
25°	1071.9	1069.9	1068.0	1079.7	1099.2	1105.1	1075.8	1046.5	1025.0	1017.2	1013.3
27.5°	1136.3	1138.3	1140.2	1151.9	1167.5	1177.3	1148.0	1120.7	1103.1	1091.4	1087.5
30°	1208.5	1212.5	1218.3	1235.9	1247.6	1251.5	1226.1	1206.6	1191.0	1181.2	1175.4
32.5°	1300.3	1308.1	1315.9	1331.6	1337.4	1333.5	1321.8	1308.1	1296.4	1282.7	1280.8
35°	1437.0	1444.8	1442.8	1448.7	1450.6	1446.7	1440.9	1433.1	1427.2	1409.6	1407.7
37.5°	1608.8	1616.6	1604.9	1599.0	1585.4	1587.3	1585.4	1591.2	1593.2	1575.6	1573.7
40°	1782.6	1790.4	1774.8	1759.1	1745.5	1739.6	1749.4	1768.9	1768.9	1757.2	1757.2
42.5°	1968.0	1973.9	1948.5	1929.0	1911.4	1907.5	1913.4	1936.8	1942.7	1940.7	1940.7
45°	2153.5	2149.6	2116.4	2096.9	2081.3	2071.5	2073.5	2091.0	2102.8	2108.6	2108.6
47.5°	2296.0	2290.2	2262.9	2247.2	2237.5	2223.8	2223.8	2233.6	2239.4	2241.4	2241.4
50°	2409.3	2403.4	2376.1	2374.1	2374.1	2368.3	2362.4	2360.5	2356.6	2358.5	2358.5
52.5°	2506.9	2499.1	2479.6	2483.5	2501.1	2505.0	2497.1	2481.5	2465.9	2460.1	2462.0
55°	2612.3	2600.6	2585.0	2596.7	2631.9	2647.5	2635.8	2604.5	2577.2	2559.6	2559.6
57.5°	2696.3	2682.6	2682.6	2715.8	2780.2	2811.5	2786.1	2727.5	2680.7	2661.2	2663.1
60°	2637.7	2626.0	2672.9	2819.3	2940.3	2993.1	2950.1	2846.6	2770.5	2747.1	2751.0
62.5°	2522.5	2514.7	2573.3	2799.8	3084.8	3194.2	3129.7	2981.3	2868.1	2840.8	2840.8
65°	2352.7	2350.7	2432.7	2711.9	3118.0	3387.5	3332.8	3127.8	2981.3	2944.3	2952.1
67.5°	2177.0	2177.0	2251.1	2561.6	3079.0	3469.5	3512.4	3260.5	3036.0	2944.3	2946.2
70°	1866.5	1899.7	2096.9	2423.0	2936.4	3410.9	3586.6	3166.8	2797.8	2635.8	2629.9
72.5°	1230.0	1273.0	1665.4	2180.9	2795.9	3198.1	3237.1	2782.2	2323.4	2134.0	2124.2
75°	741.9	779.0	1079.7	1702.5	2458.1	2575.2	2403.4	2180.9	1735.7	1587.3	1587.3
77.5°	218.7	244.1	497.9	1079.7	1700.6	1692.7	1481.9	1284.7	1027.0	872.7	884.4
80°	128.9	132.8	162.1	492.0	704.8	741.9	572.1	357.3	357.3	265.5	257.7
82.5°	99.6	99.6	103.5	123.0	169.9	189.4	144.5	123.0	140.6	119.1	113.2
85°	70.3	70.3	70.3	72.2	74.2	76.1	80.0	82.0	89.8	74.2	70.3
87.5°	21.5	23.4	25.4	29.3	35.1	37.1	39.0	35.1	35.1	33.2	31.2
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)