

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: P835891

Luminaire Tested: **ARCH3-110-730-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835891
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-110-730-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 880mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16739 lumens
Efficiency: N/A
Efficacy: 149.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B4 - U0 - G2

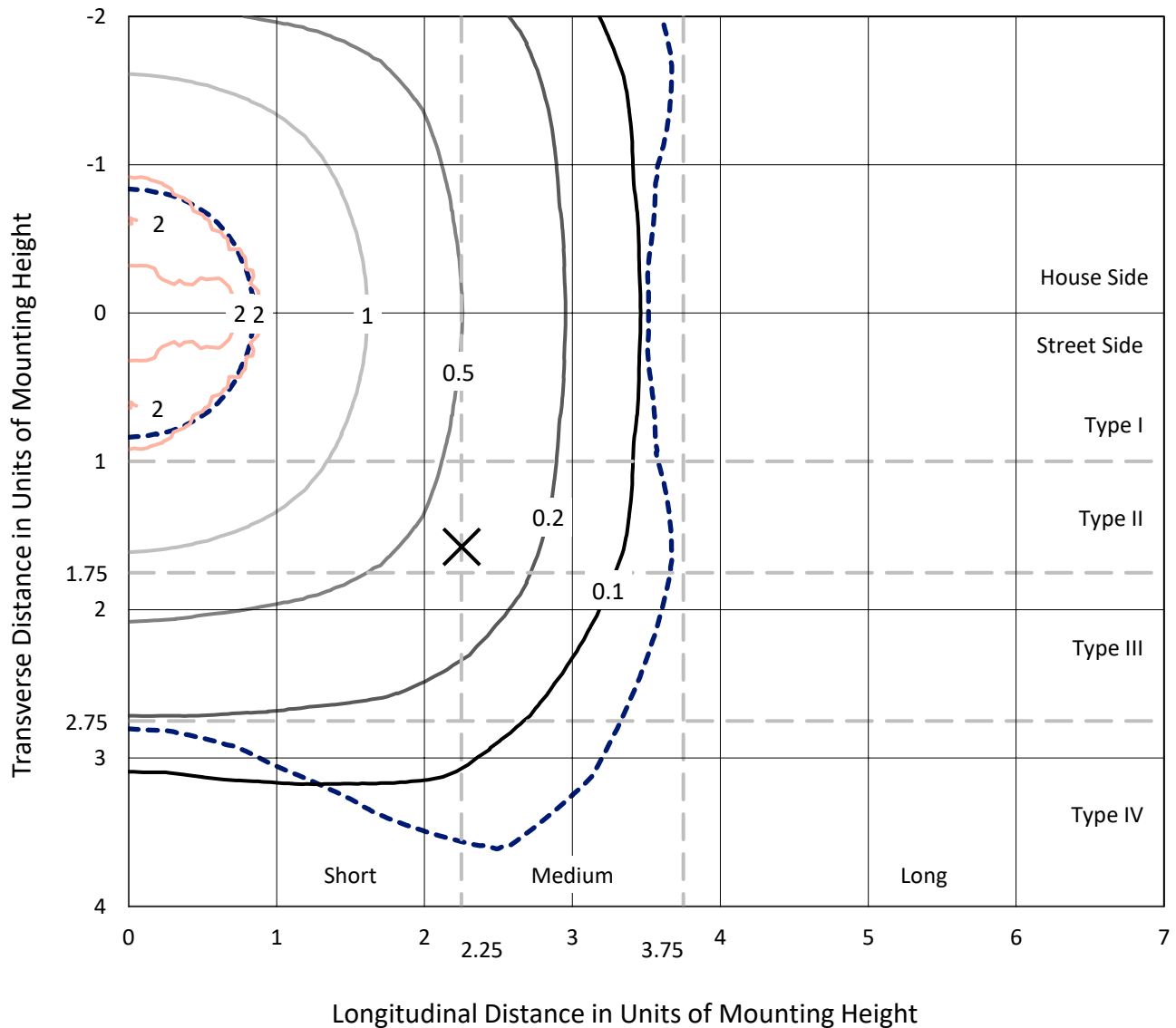
Input Watts (W): 111.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

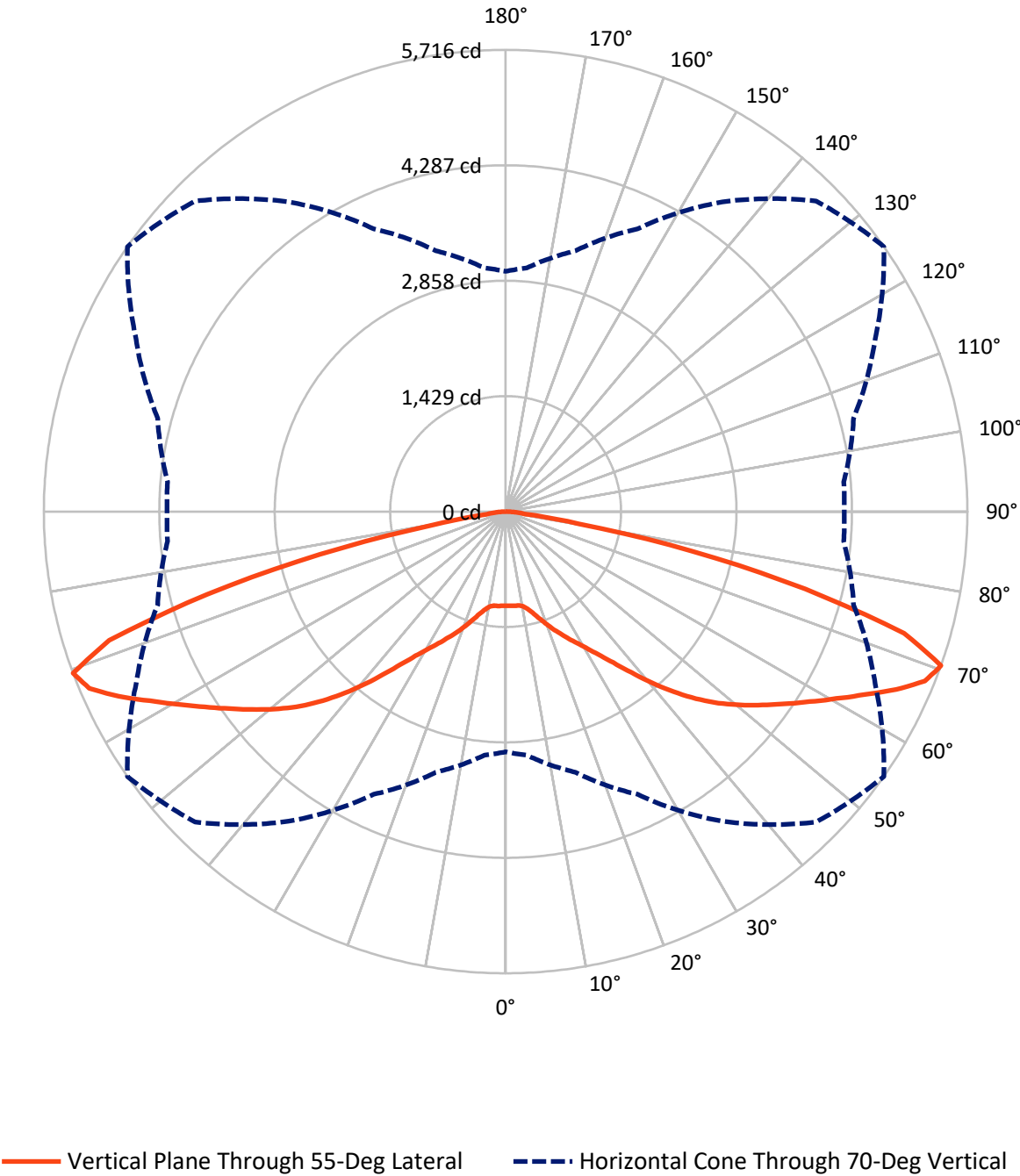
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type V - Medium - N/A

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Luminous Intensity Polar Plot



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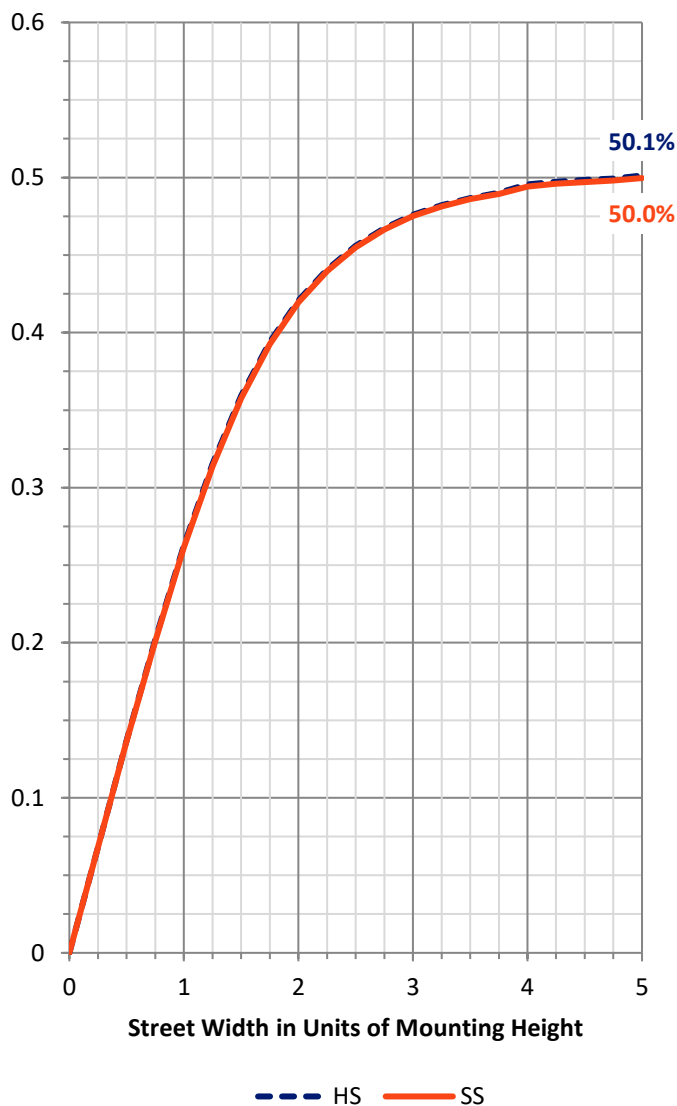
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8369.5	0.0	8369.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8369.5	0.0	8369.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	16739.0	0.0	16739.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.6	0.7
10°-20°	383.4	2.3
20°-30°	796.6	4.8
30°-40°	1471.3	8.8
40°-50°	2584.8	15.4
50°-60°	3727.9	22.3
60°-70°	4562.6	27.3
70°-80°	2903.3	17.3
80°-90°	196.4	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°	16739.0	100.0
0°-180°	16739.0	100.0

Coefficient of Utilization



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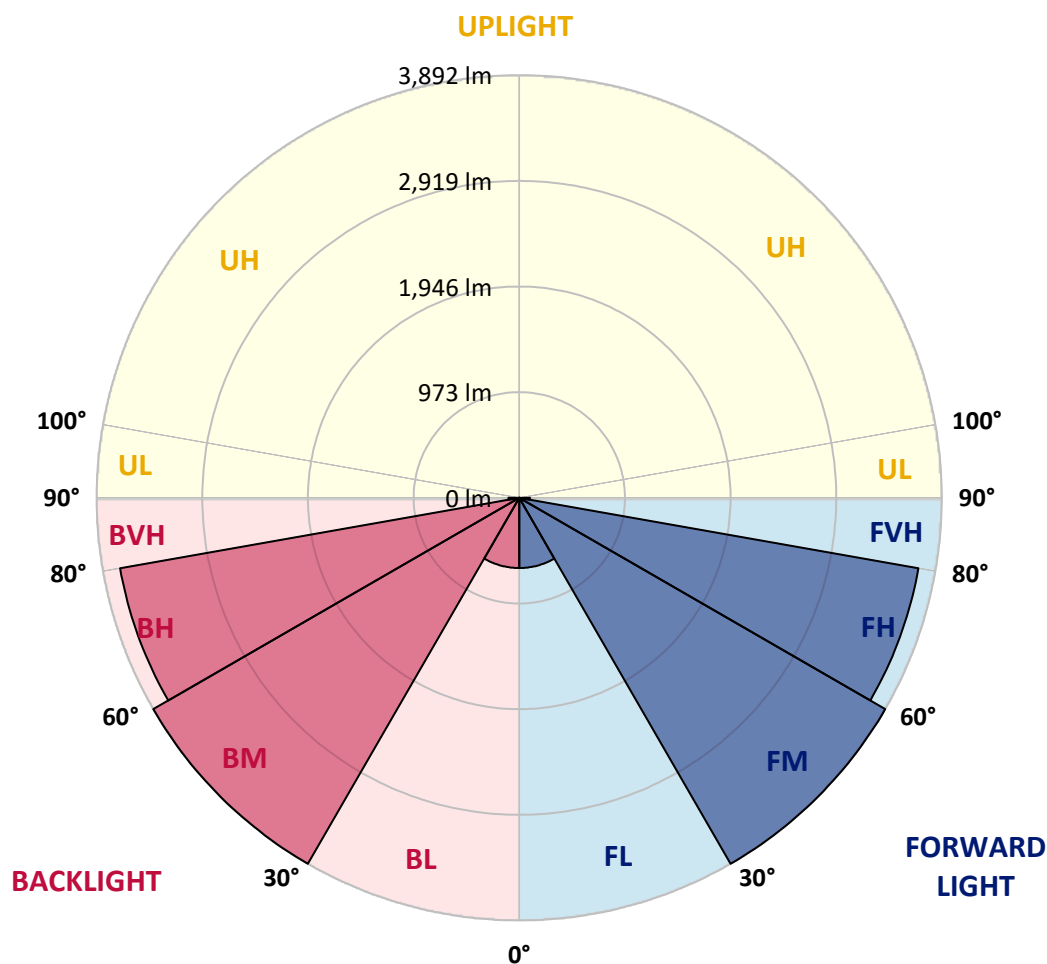
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	646.3	3.9			
FM	(30°-60°)	3892.0	23.3			
FH	(60°-80°)	3732.9	22.3			G2/5000
FVH	(80°-90°)	98.2	0.6			G1/100
BL	(0°-30°)	646.3	3.9	B2/1000		
BM	(30°-60°)	3892.0	23.3	B3/5000		
BH	(60°-80°)	3732.9	22.3	B4/5000		G2/5000
BVH	(80°-90°)	98.2	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1166.9	1166.9	1166.9	1166.9	1166.9	1166.9	1166.9	1166.9	1166.9	1166.9	1166.9
2.5°	1182.4	1182.4	1179.3	1179.3	1173.1	1170.0	1166.9	1166.9	1163.8	1163.8	1160.6
5°	1188.6	1188.6	1188.6	1185.5	1182.4	1179.3	1173.1	1166.9	1163.8	1160.6	1157.5
7.5°	1191.8	1191.8	1188.6	1188.6	1185.5	1182.4	1173.1	1163.8	1160.6	1157.5	1157.5
10°	1216.7	1213.5	1210.4	1204.2	1204.2	1204.2	1191.8	1182.4	1179.3	1179.3	1179.3
12.5°	1275.8	1272.7	1266.4	1257.1	1257.1	1260.2	1241.5	1229.1	1229.1	1226.0	1226.0
15°	1362.9	1359.8	1353.6	1338.0	1334.9	1341.1	1313.1	1300.7	1300.7	1300.7	1297.6
17.5°	1459.4	1453.1	1443.8	1431.4	1431.4	1431.4	1403.4	1387.8	1378.5	1378.5	1375.3
20°	1540.3	1537.2	1537.2	1534.0	1543.4	1543.4	1506.0	1481.1	1459.4	1446.9	1443.8
22.5°	1611.8	1608.7	1614.9	1627.4	1646.1	1652.3	1608.7	1571.4	1537.2	1512.3	1506.0
25°	1708.3	1705.2	1702.1	1720.7	1751.9	1761.2	1714.5	1667.8	1633.6	1621.2	1614.9
27.5°	1811.0	1814.1	1817.2	1835.9	1860.8	1876.3	1829.6	1786.1	1758.1	1739.4	1733.2
30°	1926.1	1932.3	1941.7	1969.7	1988.3	1994.6	1954.1	1923.0	1898.1	1882.5	1873.2
32.5°	2072.4	2084.8	2097.2	2122.1	2131.5	2125.3	2106.6	2084.8	2066.1	2044.3	2041.2
35°	2290.2	2302.6	2299.5	2308.8	2312.0	2305.7	2296.4	2283.9	2274.6	2246.6	2243.5
37.5°	2564.0	2576.4	2557.8	2548.4	2526.7	2529.8	2526.7	2536.0	2539.1	2511.1	2508.0
40°	2840.9	2853.4	2828.5	2803.6	2781.8	2772.5	2788.0	2819.1	2819.1	2800.5	2800.5
42.5°	3136.5	3145.9	3105.4	3074.3	3046.3	3040.1	3049.4	3086.8	3096.1	3093.0	3093.0
45°	3432.1	3425.9	3373.0	3341.9	3317.0	3301.5	3304.6	3332.6	3351.2	3360.6	3360.6
47.5°	3659.3	3650.0	3606.4	3581.5	3565.9	3544.2	3544.2	3559.7	3569.1	3572.2	3572.2
50°	3839.8	3830.4	3786.9	3783.8	3783.8	3774.4	3765.1	3762.0	3755.8	3758.9	3758.9
52.5°	3995.3	3982.9	3951.8	3958.0	3986.0	3992.2	3979.8	3954.9	3930.0	3920.7	3923.8
55°	4163.4	4144.7	4119.8	4138.5	4194.5	4219.4	4200.7	4150.9	4107.4	4079.4	4079.4
57.5°	4297.2	4275.4	4275.4	4328.3	4431.0	4480.8	4440.3	4347.0	4272.3	4241.2	4244.3
60°	4203.8	4185.2	4259.8	4493.2	4686.1	4770.1	4701.7	4536.8	4415.4	4378.1	4384.3
62.5°	4020.2	4007.8	4101.1	4462.1	4916.4	5090.6	4988.0	4751.5	4571.0	4527.4	4527.4
65°	3749.5	3746.4	3877.1	4322.1	4969.3	5398.7	5311.6	4984.9	4751.5	4692.4	4704.8
67.5°	3469.5	3469.5	3587.7	4082.5	4907.1	5529.4	5597.8	5196.4	4838.6	4692.4	4695.5
70°	2974.7	3027.6	3341.9	3861.5	4679.9	5436.0	5716.1	5047.1	4459.0	4200.7	4191.4
72.5°	1960.3	2028.8	2654.2	3475.7	4455.9	5096.9	5159.1	4434.1	3702.9	3401.0	3385.5
75°	1182.4	1241.5	1720.7	2713.4	3917.6	4104.3	3830.4	3475.7	2766.3	2529.8	2529.8
77.5°	348.5	389.0	793.5	1720.7	2710.2	2697.8	2361.7	2047.5	1636.7	1390.9	1409.6
80°	205.4	211.6	258.3	784.1	1123.3	1182.4	911.7	569.4	569.4	423.2	410.7
82.5°	158.7	158.7	164.9	196.0	270.7	301.8	230.3	196.0	224.0	189.8	180.5
85°	112.0	112.0	112.0	115.1	118.2	121.4	127.6	130.7	143.1	118.2	112.0
87.5°	34.2	37.3	40.5	46.7	56.0	59.1	62.2	56.0	56.0	52.9	49.8
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)