

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: P836422

Luminaire Tested: **ARCH3-180-750-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836422
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: ARCH3-180-750-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1375mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24752 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B5 - U0 - G3

Input Watts (W): 180.5
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

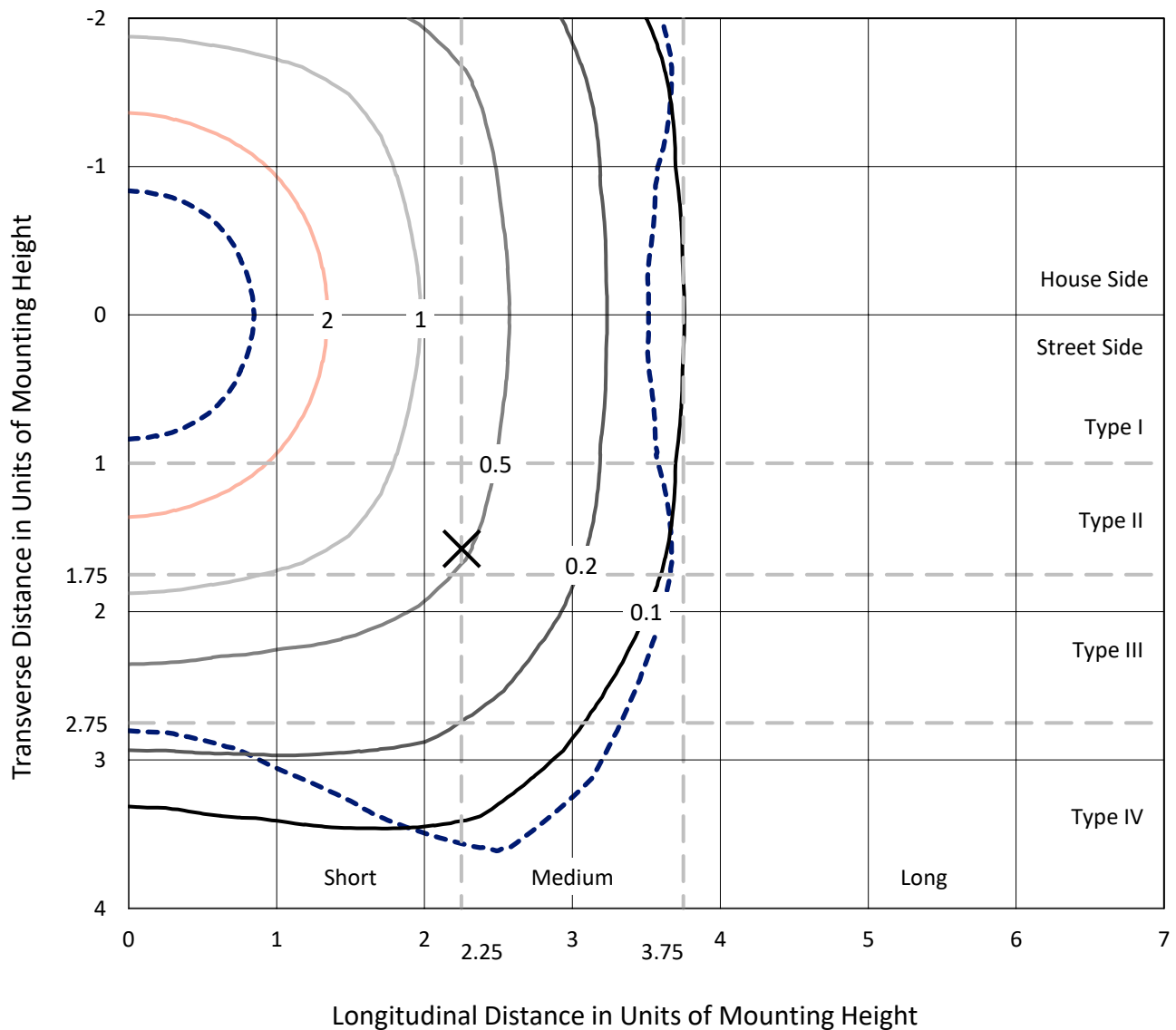


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Iso-Footcandle Lines of Horizontal Illumination

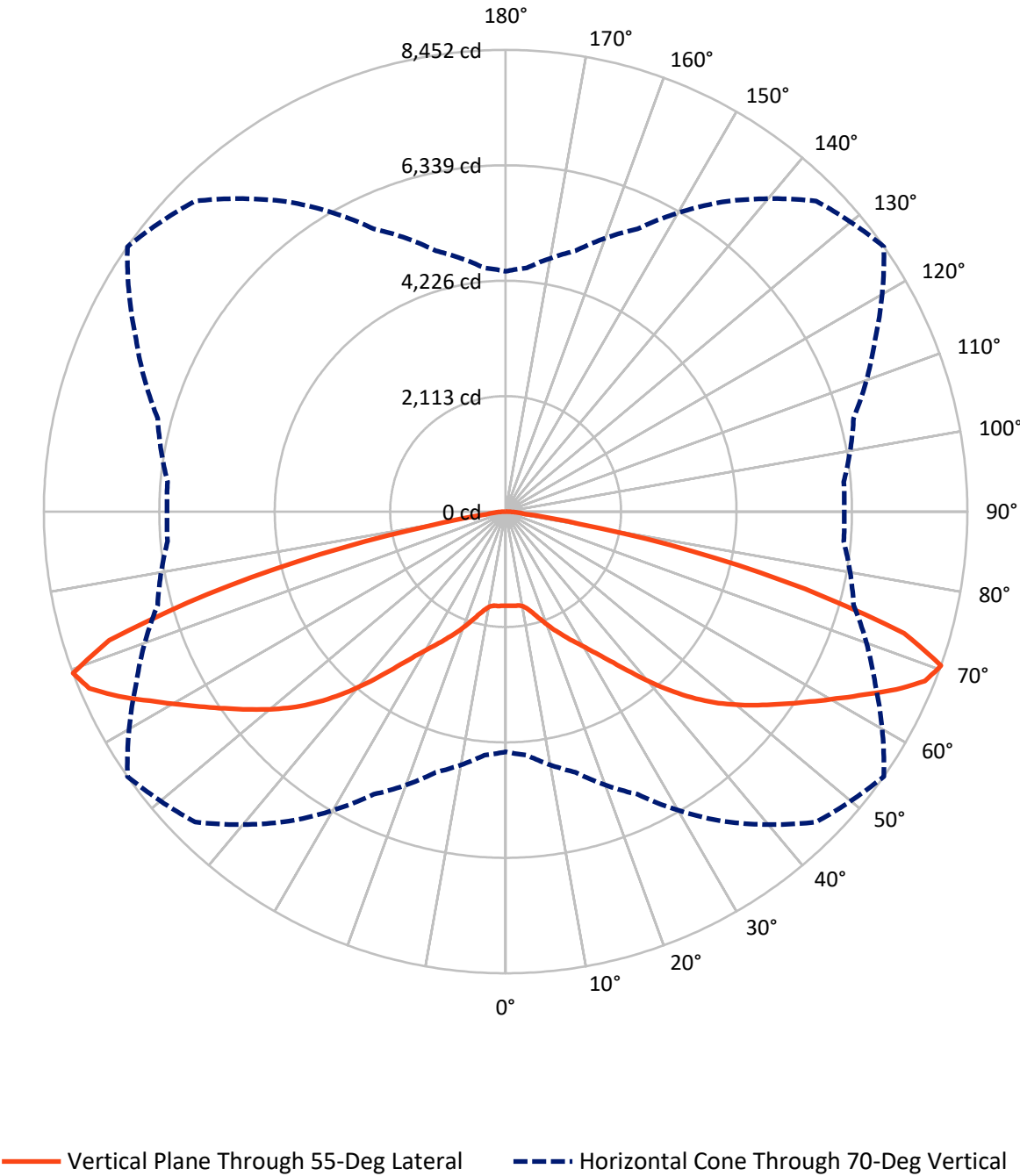
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Medium - N/A

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Luminous Intensity Polar Plot



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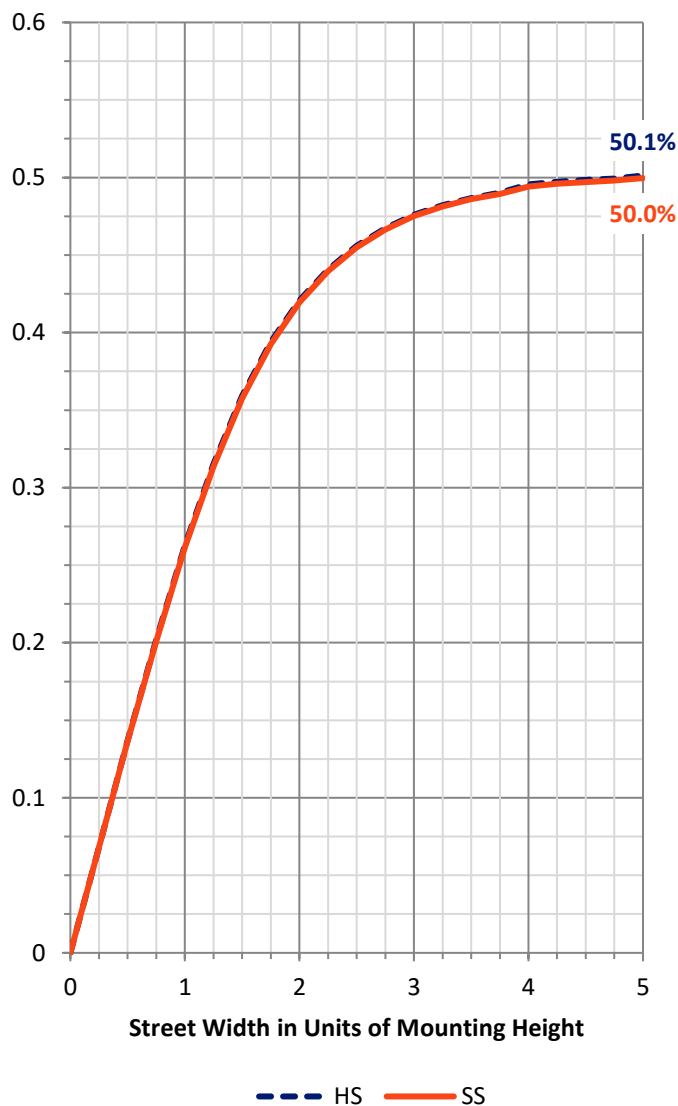
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12376.0	0.0	12376.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12376.0	0.0	12376.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	24752.0	0.0	24752.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.6	0.7
10°-20°	566.9	2.3
20°-30°	1178.0	4.8
30°-40°	2175.7	8.8
40°-50°	3822.2	15.4
50°-60°	5512.5	22.3
60°-70°	6746.7	27.3
70°-80°	4293.1	17.3
80°-90°	290.5	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°	24752.0	100.0
0°-180°	24752.0	100.0

Coefficient of Utilization



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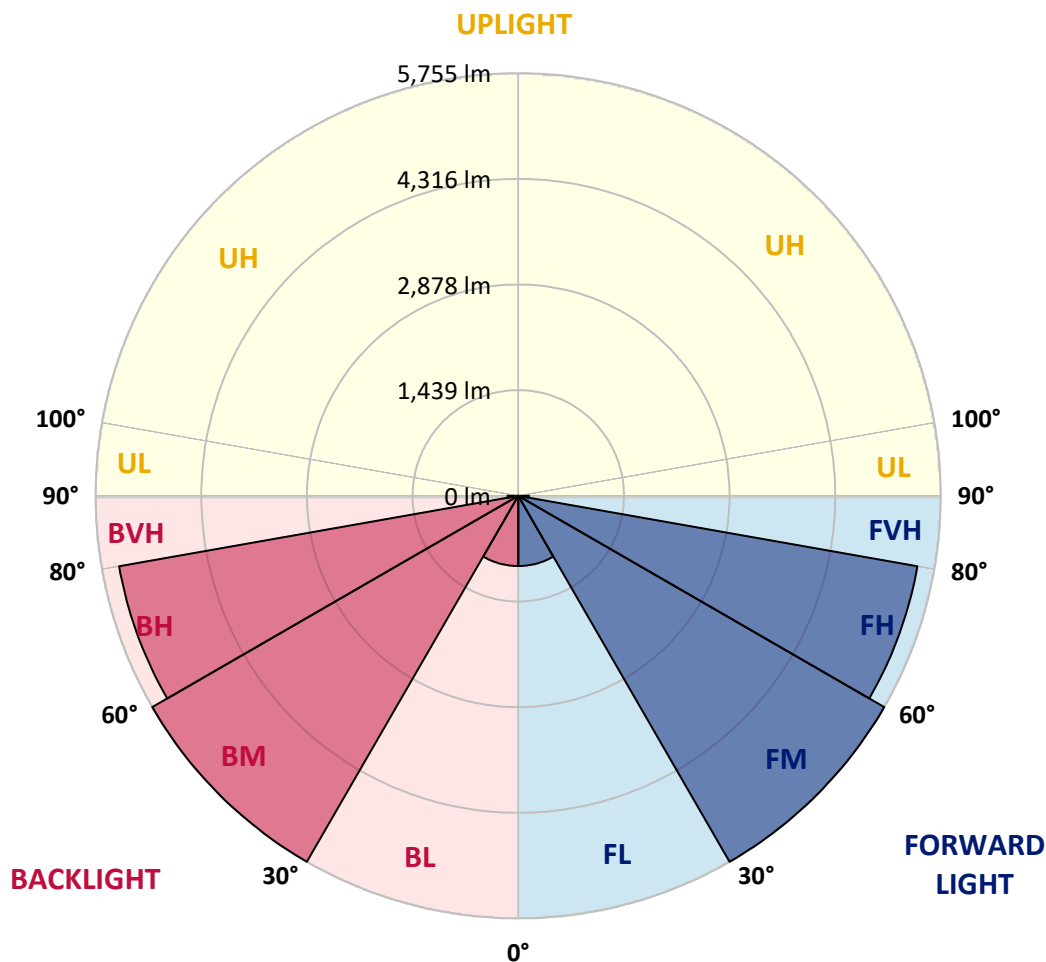
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	955.7	3.9			
FM	(30°-60°)	5755.2	23.3			
FH	(60°-80°)	5519.9	22.3			G3/7500
FVH	(80°-90°)	145.2	0.6			G2/225
BL	(0°-30°)	955.7	3.9	B2/1000		
BM	(30°-60°)	5755.2	23.3	B4/8500		
BH	(60°-80°)	5519.9	22.3	B5		G3/7500
BVH	(80°-90°)	145.2	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-G3

Type V Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1725.4	1725.4	1725.4	1725.4	1725.4	1725.4	1725.4	1725.4	1725.4	1725.4	1725.4
2.5°	1748.5	1748.5	1743.9	1743.9	1734.7	1730.0	1725.4	1725.4	1720.8	1720.8	1716.2
5°	1757.7	1757.7	1757.7	1753.1	1748.5	1743.9	1734.7	1725.4	1720.8	1716.2	1711.6
7.5°	1762.3	1762.3	1757.7	1757.7	1753.1	1748.5	1734.7	1720.8	1716.2	1711.6	1711.6
10°	1799.1	1794.5	1789.9	1780.7	1780.7	1780.7	1762.3	1748.5	1743.9	1743.9	1743.9
12.5°	1886.5	1881.9	1872.7	1858.9	1858.9	1863.5	1835.9	1817.5	1817.5	1812.9	1812.9
15°	2015.3	2010.7	2001.5	1978.5	1973.9	1983.1	1941.7	1923.3	1923.3	1923.3	1918.7
17.5°	2158.0	2148.8	2135.0	2116.5	2116.5	2116.5	2075.1	2052.1	2038.3	2038.3	2033.7
20°	2277.6	2273.0	2273.0	2268.4	2282.2	2282.2	2227.0	2190.2	2158.0	2139.6	2135.0
22.5°	2383.4	2378.8	2388.0	2406.4	2434.0	2443.2	2378.8	2323.6	2273.0	2236.2	2227.0
25°	2526.1	2521.5	2516.9	2544.5	2590.5	2604.3	2535.3	2466.2	2415.6	2397.2	2388.0
27.5°	2677.9	2682.5	2687.1	2714.7	2751.5	2774.5	2705.5	2641.1	2599.7	2572.1	2562.9
30°	2848.1	2857.3	2871.1	2912.6	2940.2	2949.4	2889.6	2843.5	2806.7	2783.7	2769.9
32.5°	3064.4	3082.8	3101.2	3138.0	3151.8	3142.6	3115.0	3082.8	3055.2	3023.0	3018.4
35°	3386.5	3404.9	3400.3	3414.1	3418.7	3409.5	3395.7	3377.3	3363.5	3322.1	3317.5
37.5°	3791.4	3809.8	3782.2	3768.4	3736.2	3740.8	3736.2	3750.0	3754.6	3713.2	3708.6
40°	4200.9	4219.3	4182.5	4145.7	4113.5	4099.7	4122.7	4168.7	4168.7	4141.1	4141.1
42.5°	4638.0	4651.8	4592.0	4546.0	4504.6	4495.4	4509.2	4564.4	4578.2	4573.6	4573.6
45°	5075.1	5065.9	4987.7	4941.7	4904.9	4881.9	4886.5	4927.9	4955.5	4969.3	4969.3
47.5°	5411.0	5397.2	5332.8	5296.0	5273.0	5240.8	5240.8	5263.8	5277.6	5282.2	5282.2
50°	5677.9	5664.1	5599.7	5595.1	5595.1	5581.2	5567.4	5562.8	5553.6	5558.2	5558.2
52.5°	5907.9	5889.5	5843.5	5852.7	5894.1	5903.3	5884.9	5848.1	5811.3	5797.5	5802.1
55°	6156.4	6128.8	6092.0	6119.6	6202.4	6239.2	6211.6	6138.0	6073.6	6032.2	6032.2
57.5°	6354.2	6322.0	6322.0	6400.3	6552.1	6625.7	6565.9	6427.9	6317.4	6271.4	6276.0
60°	6216.2	6188.6	6299.0	6644.1	6929.4	7053.6	6952.4	6708.5	6529.1	6473.9	6483.1
62.5°	5944.7	5926.3	6064.4	6598.1	7269.9	7527.6	7375.7	7026.0	6759.2	6694.7	6694.7
65°	5544.4	5539.8	5733.1	6391.1	7348.1	7983.1	7854.2	7371.1	7026.0	6938.6	6957.0
67.5°	5130.3	5130.3	5305.2	6036.8	7256.1	8176.3	8277.5	7684.0	7154.9	6938.6	6943.2
70°	4398.7	4477.0	4941.7	5710.1	6920.2	8038.3	8452.4	7463.1	6593.5	6211.6	6197.8
72.5°	2898.8	3000.0	3924.8	5139.5	6588.9	7536.8	7628.8	6556.7	5475.4	5029.1	5006.1
75°	1748.5	1835.9	2544.5	4012.2	5792.9	6069.0	5664.1	5139.5	4090.5	3740.8	3740.8
77.5°	515.3	575.1	1173.3	2544.5	4007.6	3989.2	3492.3	3027.6	2420.2	2056.7	2084.3
80°	303.7	312.9	381.9	1159.5	1661.0	1748.5	1348.1	842.0	842.0	625.8	607.4
82.5°	234.7	234.7	243.9	289.9	400.3	446.3	340.5	289.9	331.3	280.7	266.9
85°	165.6	165.6	165.6	170.2	174.8	179.4	188.6	193.3	211.7	174.8	165.6
87.5°	50.6	55.2	59.8	69.0	82.8	87.4	92.0	82.8	82.8	78.2	73.6
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)