

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: P266255

Luminaire Tested: **UTLD-AF24-20-D-U-5WQ-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266255
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-9-U0)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-20-D-U-5WQ-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
PHOTOMETRIC DATA REPORTED FOR LOWER HEMISPHERE ONLY. MINIMAL LIGHT IN
UPPER HEMISPHERE NOT REPORTED.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2180.8 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B2 - U0 - G1

Input Watts (W): 21
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: 28.75 FT

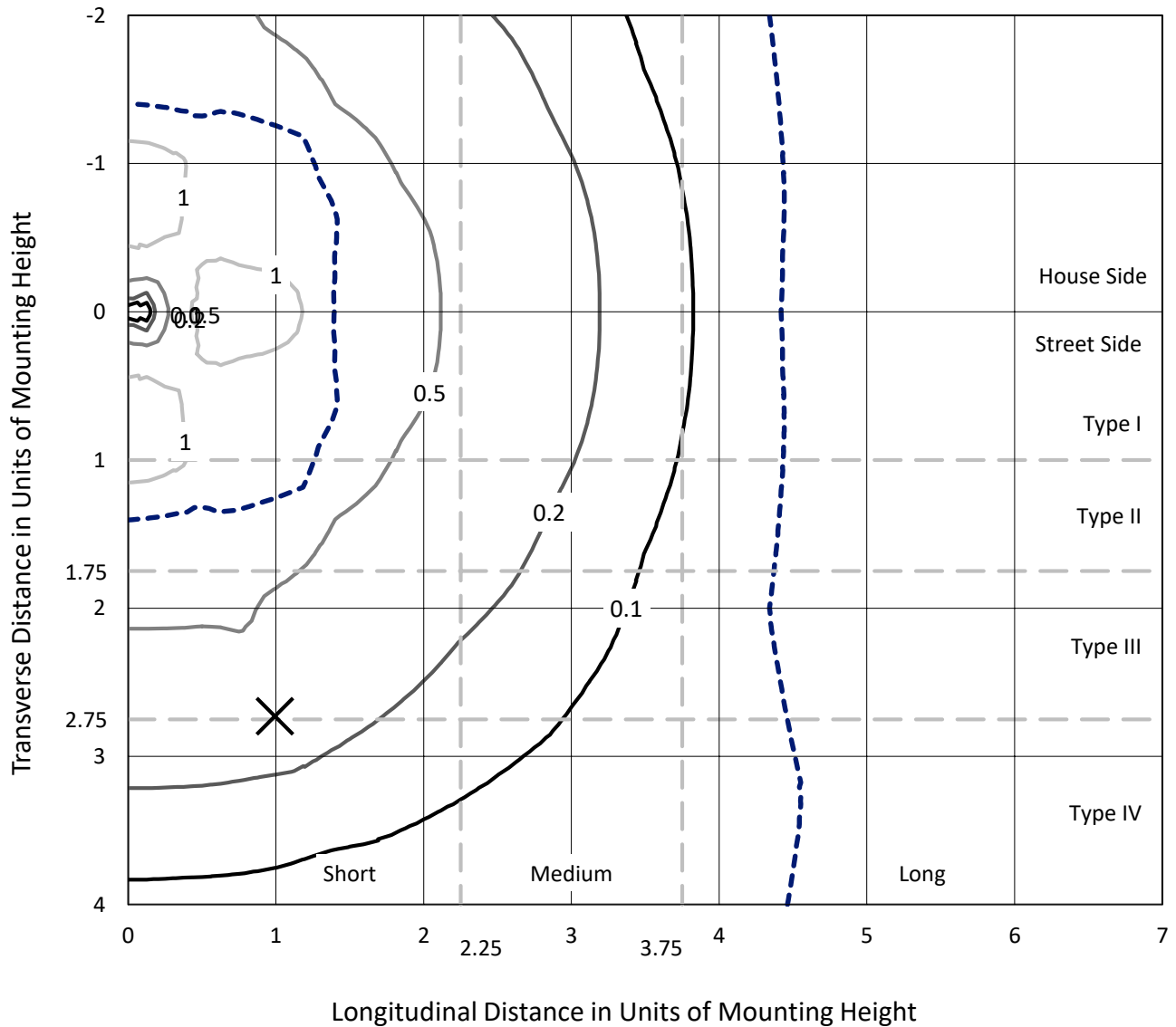


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

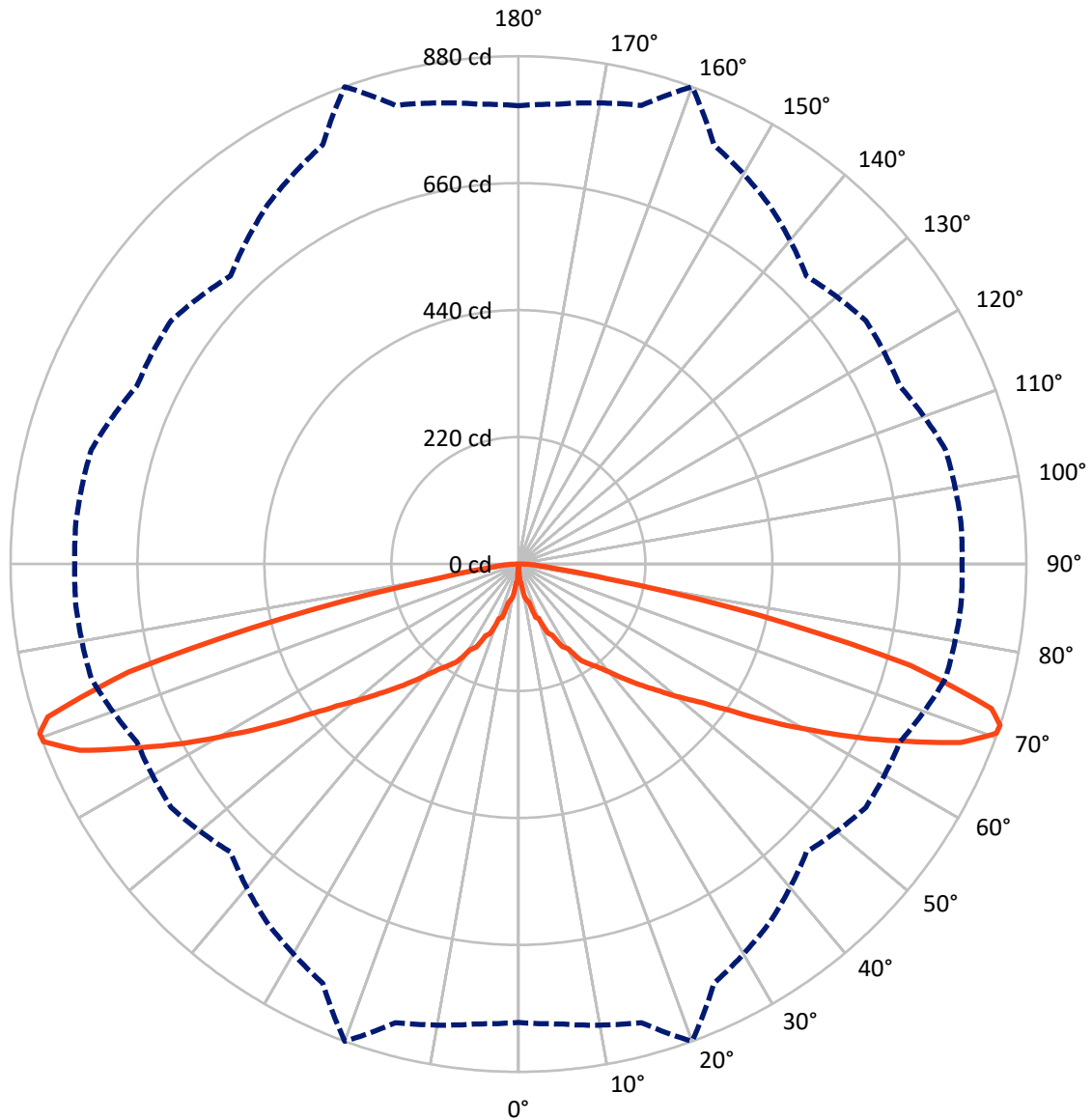


Based on 10 foot mounting height. Maximum calculated value = 1.3 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 20-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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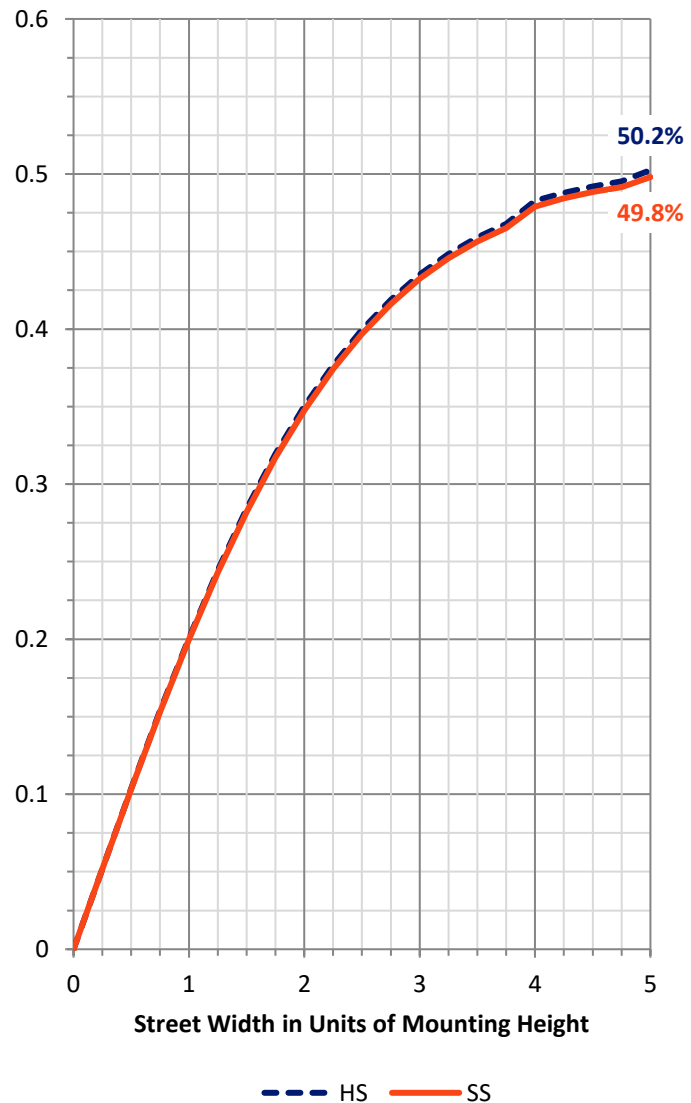
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1090.4	0.0	1090.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1090.4	0.0	1090.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	2180.8	0.0	2180.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.5	0.1
10°-20°	18.0	0.8
20°-30°	61.0	2.8
30°-40°	124.3	5.7
40°-50°	212.9	9.8
50°-60°	375.1	17.2
60°-70°	638.9	29.3
70°-80°	660.8	30.3
80°-90°	88.3	4.0
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°	2180.8	100.0
0°-180°	2180.8	100.0



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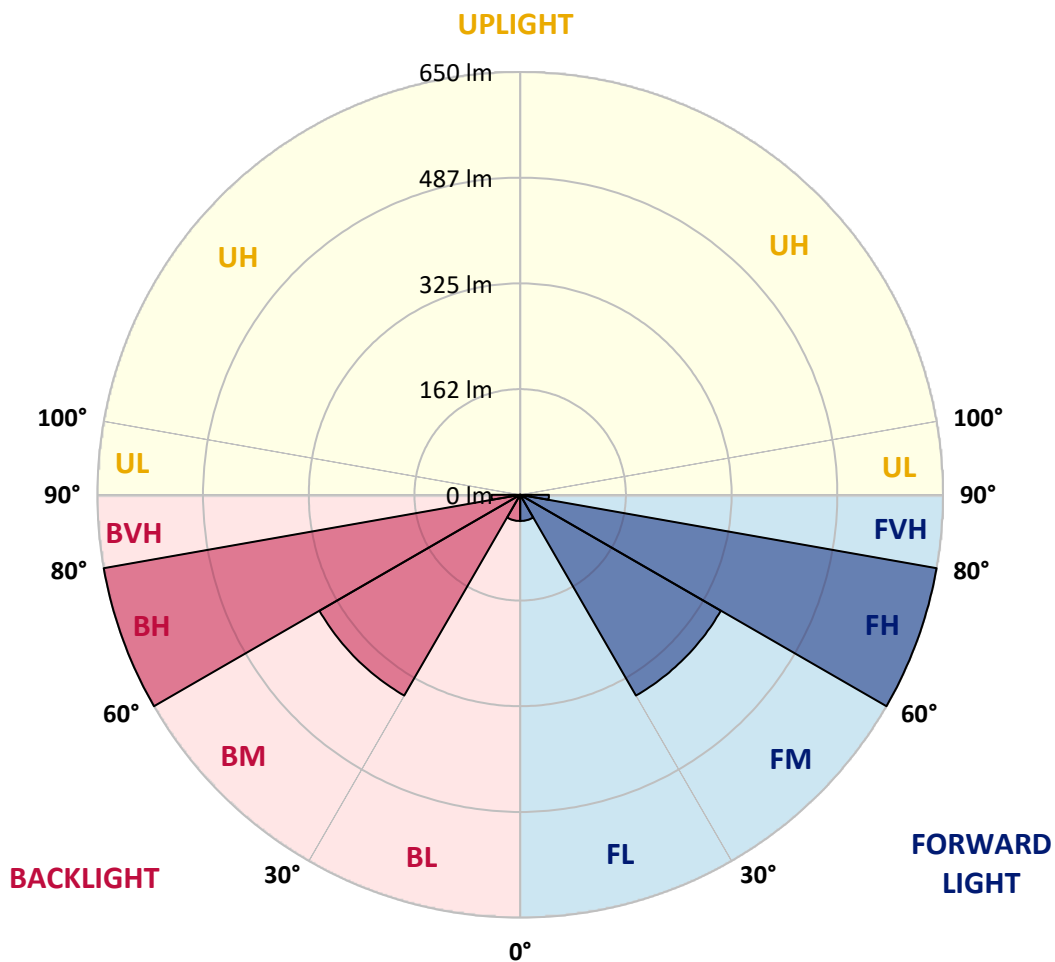
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	40.2	1.8			
FM (30°-60°)	356.2	16.3			
FH (60°-80°)	649.8	29.8			G0/660
FVH (80°-90°)	44.1	2.0			G1/100
BL (0°-30°)	40.2	1.8	B0/110		
BM (30°-60°)	356.2	16.3	B1/1000		
BH (60°-80°)	649.8	29.8	B2/1000		G0/660
BVH (80°-90°)	44.1	2.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	20°	25°	35°	45°	55°	65°	75°	85°
0°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
2.5°	4.9	4.6	4.3	7.9	4.1	3.5	1.6	1.0	0.7	0.7	0.7
5°	17.2	17.2	17.2	32.9	17.0	16.4	14.3	12.5	3.5	1.0	0.7
7.5°	30.1	30.1	23.3	33.3	20.3	17.3	16.7	16.2	13.0	2.6	1.2
10°	47.9	47.7	46.3	57.3	44.2	33.1	20.1	17.0	15.0	8.3	5.1
12.5°	51.6	51.1	49.9	63.6	48.1	46.9	36.3	25.0	33.3	49.9	42.3
15°	77.4	78.0	68.5	69.2	60.7	49.5	54.4	64.4	53.4	57.3	48.9
17.5°	85.2	84.7	83.1	97.0	79.6	66.6	74.0	75.5	64.4	75.3	76.6
20°	105.7	104.3	97.7	100.6	84.9	93.0	86.9	88.4	99.3	97.2	99.0
22.5°	122.7	122.3	119.3	129.6	106.2	104.6	99.4	107.6	109.7	106.2	122.2
25°	139.3	137.9	124.3	136.5	120.7	120.3	118.8	117.9	130.2	141.6	149.3
27.5°	158.6	157.7	152.9	161.7	140.6	128.3	128.9	137.3	144.6	148.6	173.9
30°	176.8	176.6	160.3	170.6	156.0	146.7	142.0	149.7	163.9	187.4	202.9
32.5°	202.5	201.5	190.3	198.9	169.9	160.6	157.3	162.9	183.0	194.6	211.0
35°	230.3	229.3	205.9	212.9	186.0	173.3	166.9	179.8	187.7	205.2	223.8
37.5°	244.9	243.1	231.0	227.7	210.3	189.3	180.5	188.5	199.2	218.6	237.6
40°	262.0	261.2	251.3	248.0	225.0	204.3	191.1	200.1	215.1	234.6	256.2
42.5°	282.5	282.1	273.2	273.4	244.3	223.0	204.3	217.0	232.8	258.6	282.5
45°	307.5	305.9	299.8	300.0	269.0	243.9	222.8	239.5	251.3	281.9	309.5
47.5°	335.5	335.3	328.6	328.6	293.9	268.4	245.1	267.9	280.9	316.9	338.2
50°	367.8	367.2	362.5	362.5	326.7	295.0	271.9	299.2	313.6	348.5	371.9
52.5°	403.1	402.8	401.6	398.9	362.9	332.3	305.9	337.0	349.4	388.3	408.6
55°	445.2	448.3	447.4	449.3	410.5	378.4	346.9	380.6	393.8	433.2	448.6
57.5°	498.6	497.8	502.5	514.9	466.5	437.5	398.8	436.9	441.7	478.8	493.3
60°	547.5	548.8	558.1	584.3	524.5	504.7	460.4	496.9	497.2	528.9	539.8
62.5°	599.8	602.0	618.2	662.5	585.8	572.7	527.9	556.1	553.5	581.2	592.1
65°	658.5	661.5	683.5	739.7	654.0	637.7	591.4	613.8	613.2	649.8	648.9
67.5°	730.0	733.6	753.4	825.5	735.1	698.5	644.9	672.1	669.7	706.2	703.6
70°	787.0	791.0	812.4	878.3	789.5	745.5	690.1	719.5	721.5	755.8	759.7
71°	793.7	799.4	822.2	879.5	801.1	758.3	705.3	734.5	729.0	765.7	769.8
72.5°	774.2	779.8	809.6	856.8	805.9	764.3	727.5	745.2	723.5	758.0	758.0
75°	657.1	657.1	699.1	700.7	735.5	736.7	742.5	727.1	658.8	661.2	650.4
77.5°	410.0	414.5	458.2	422.5	535.4	625.0	686.1	619.7	504.7	458.0	422.5
80°	155.9	153.9	204.8	156.2	284.6	421.9	516.5	423.6	267.5	176.3	132.3
82.5°	35.8	45.8	63.4	61.4	94.9	186.3	287.0	188.3	85.9	66.7	51.6
85°	17.6	18.7	31.7	33.6	37.8	51.1	95.1	58.6	44.0	43.7	32.2
87.5°	7.2	8.4	17.6	17.2	17.0	21.3	19.4	27.4	28.0	29.7	18.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°
0°	0.7
2.5°	0.7
5°	0.7
7.5°	1.2
10°	5.1
12.5°	40.5
15°	51.1
17.5°	76.4
20°	99.4
22.5°	124.9
25°	148.6
27.5°	177.3
30°	204.8
32.5°	218.6
35°	229.5
37.5°	243.1
40°	260.6
42.5°	284.4
45°	310.6
47.5°	340.0
50°	373.9
52.5°	409.5
55°	448.3
57.5°	494.5
60°	537.8
62.5°	591.9
65°	647.5
67.5°	702.8
70°	756.4
71°	768.4
72.5°	753.4
75°	647.9
77.5°	414.9
80°	125.9
82.5°	48.1
85°	30.7
87.5°	17.6
90°	0.0

(END OF REPORT)