

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: McGRAW-EDISON

Report Number: P197574

Luminaire Tested: **TT-C5-LED-E1-CQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197574
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33411)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C5-LED-E1-CQ
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
CONCENTRATED DISTRIBUTION
Light Source: (160) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9748.1 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 77
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: 25 FT

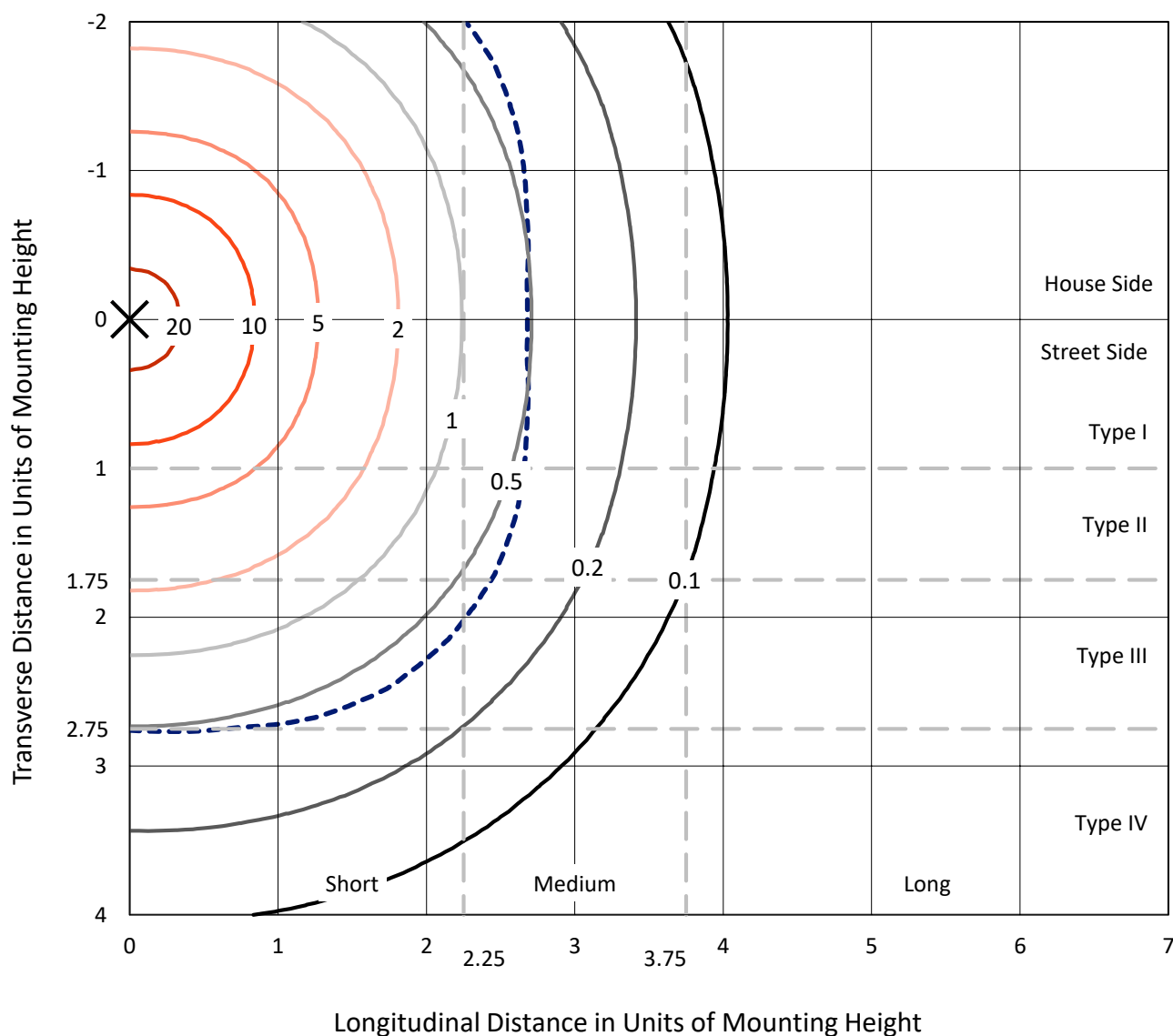


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

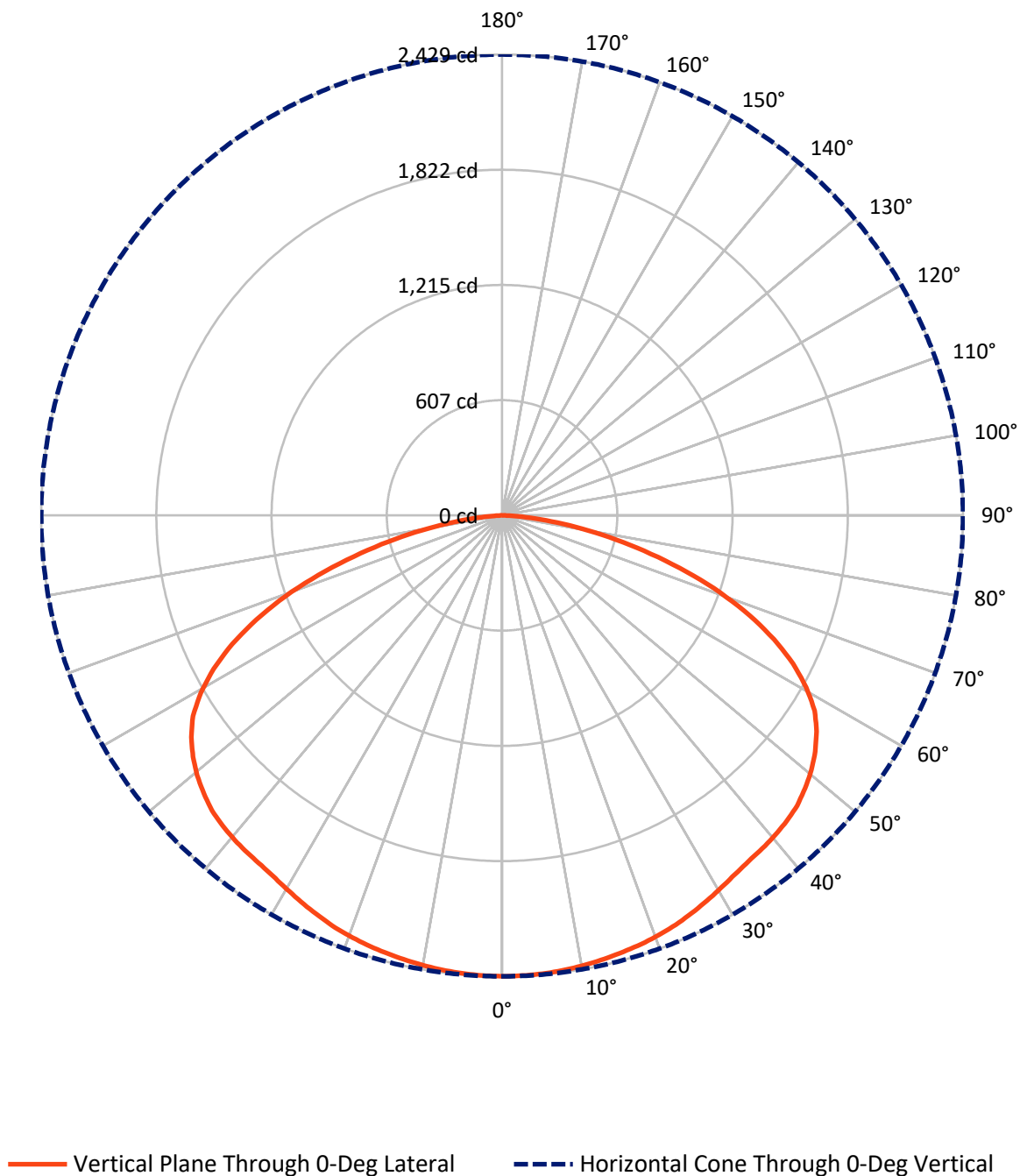


Based on 10 foot mounting height. Maximum calculated value = 24.3 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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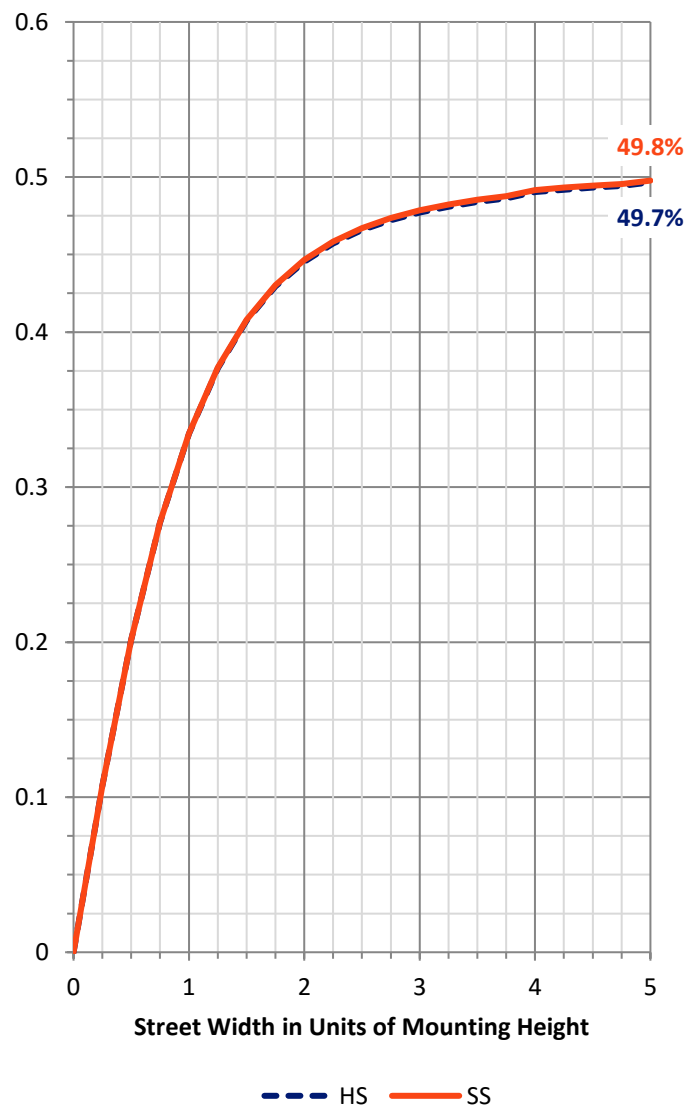
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4874.1	0.0	4874.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4874.1	0.0	4874.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	9748.1	0.0	9748.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.9	2.4
10°-20°	676.1	6.9
20°-30°	1075.5	11.0
30°-40°	1422.4	14.6
40°-50°	1735.7	17.8
50°-60°	1874.5	19.2
60°-70°	1623.3	16.7
70°-80°	920.4	9.4
80°-90°	189.3	1.9
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°	9748.1	100.0
0°-180°	9748.1	100.0

Coefficient of Utilization



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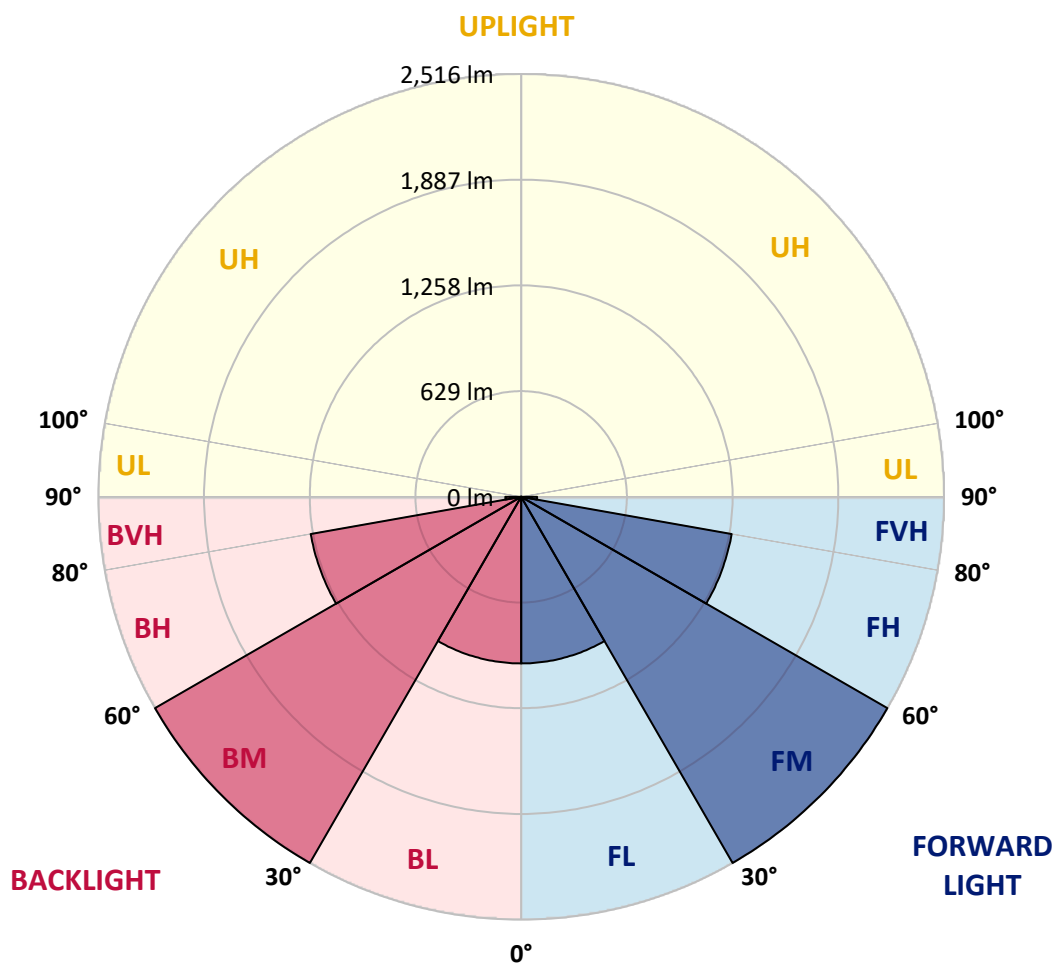
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	991.3	10.2			
FM	(30°-60°)	2516.3	25.8			
FH	(60°-80°)	1271.9	13.0			G1/1800
FVH	(80°-90°)	94.6	1.0			G1/100
BL	(0°-30°)	991.3	10.2	B2/1000		
BM	(30°-60°)	2516.3	25.8	B3/5000		
BH	(60°-80°)	1271.9	13.0	B3/2500		G1/1800
BVH	(80°-90°)	94.6	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2429.4	2429.4	2429.4	2429.4	2429.4	2429.4	2429.4	2429.4	2429.4	2429.4	2429.4
2.5°	2427.7	2427.7	2427.7	2427.7	2427.7	2427.7	2427.7	2427.7	2427.7	2427.7	2427.7
5°	2424.3	2424.3	2424.3	2424.3	2424.3	2424.3	2424.3	2424.3	2424.3	2424.3	2424.3
7.5°	2417.6	2417.6	2417.6	2417.6	2417.6	2419.3	2417.6	2417.6	2417.6	2417.6	2419.3
10°	2409.2	2409.2	2410.9	2410.9	2409.2	2409.2	2409.2	2409.2	2409.2	2409.2	2409.2
12.5°	2399.2	2399.2	2399.2	2399.2	2399.2	2399.2	2399.2	2399.2	2397.5	2397.5	2397.5
15°	2387.4	2387.4	2387.4	2389.1	2389.1	2389.1	2389.1	2387.4	2385.7	2384.1	2385.7
17.5°	2375.7	2375.7	2377.4	2379.0	2379.0	2379.0	2379.0	2375.7	2374.0	2372.3	2372.3
20°	2360.6	2362.3	2362.3	2363.9	2365.6	2365.6	2365.6	2363.9	2360.6	2357.2	2357.2
22.5°	2343.8	2345.5	2347.2	2348.8	2350.5	2348.8	2348.8	2347.2	2343.8	2342.1	2340.4
25°	2322.0	2322.0	2325.3	2328.7	2330.4	2330.4	2330.4	2327.0	2323.7	2322.0	2320.3
27.5°	2300.2	2300.2	2303.5	2308.6	2310.2	2311.9	2308.6	2306.9	2301.9	2298.5	2298.5
30°	2276.7	2276.7	2281.7	2288.4	2293.5	2295.1	2293.5	2286.8	2280.0	2276.7	2276.7
32.5°	2254.9	2256.6	2261.6	2271.7	2280.0	2283.4	2281.7	2273.3	2264.9	2258.2	2256.6
35°	2238.1	2239.8	2249.8	2261.6	2275.0	2280.0	2275.0	2266.6	2253.2	2243.1	2243.1
37.5°	2228.0	2228.0	2241.5	2261.6	2276.7	2283.4	2276.7	2264.9	2246.5	2233.1	2233.1
40°	2216.3	2219.6	2236.4	2261.6	2283.4	2293.5	2285.1	2268.3	2244.8	2228.0	2226.4
42.5°	2201.2	2206.2	2224.7	2258.2	2285.1	2300.2	2291.8	2271.7	2243.1	2224.7	2223.0
45°	2181.1	2182.7	2206.2	2246.5	2281.7	2301.9	2295.1	2270.0	2238.1	2216.3	2212.9
47.5°	2149.2	2152.5	2181.1	2228.0	2271.7	2293.5	2288.4	2259.9	2219.6	2194.5	2189.4
50°	2112.3	2115.6	2149.2	2202.9	2251.5	2276.7	2268.3	2233.1	2189.4	2155.9	2152.5
52.5°	2067.0	2073.7	2110.6	2171.0	2223.0	2246.5	2233.1	2187.8	2137.4	2100.5	2097.2
55°	2011.6	2018.3	2060.3	2124.0	2176.0	2194.5	2176.0	2122.3	2068.6	2026.7	2018.3
57.5°	1942.8	1947.9	1988.1	2055.2	2105.6	2120.7	2097.2	2041.8	1978.1	1932.8	1927.7
60°	1842.2	1848.9	1895.8	1957.9	2008.3	2026.7	2003.2	1936.1	1867.3	1822.0	1820.3
62.5°	1721.4	1733.1	1773.4	1840.5	1885.8	1910.9	1879.1	1810.3	1741.5	1689.5	1689.5
65°	1575.4	1583.8	1627.4	1692.8	1736.5	1758.3	1726.4	1662.6	1587.1	1541.8	1536.8
67.5°	1407.6	1414.3	1452.9	1520.0	1567.0	1585.5	1550.2	1489.8	1419.4	1370.7	1365.7
70°	1221.4	1231.5	1260.0	1322.1	1364.0	1374.1	1347.2	1290.2	1226.4	1182.8	1179.4
72.5°	1018.4	1026.8	1063.7	1112.3	1145.9	1149.2	1132.5	1090.5	1025.1	989.9	984.8
75°	810.3	823.8	855.6	897.6	922.8	922.8	912.7	882.5	825.4	798.6	798.6
77.5°	614.1	620.8	654.3	682.8	703.0	713.0	701.3	674.5	629.2	610.7	600.6
80°	427.8	434.5	449.6	471.4	491.6	498.3	484.9	463.1	437.9	424.5	417.8
82.5°	261.7	268.4	276.8	288.6	302.0	308.7	300.3	286.9	265.1	263.4	261.7
85°	125.8	129.2	135.9	139.3	146.0	147.6	149.3	142.6	135.9	127.5	130.9
87.5°	38.6	38.6	40.3	41.9	45.3	45.3	45.3	43.6	40.3	38.6	38.6
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)