

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: P197576

Luminaire Tested: **TT-C5-LED-E1-CQ-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197576
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-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
CONCENTRATED DISTRIBUTION
Light Source: (160) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9583 lumens
Efficiency: N/A
Efficacy: 124.5 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



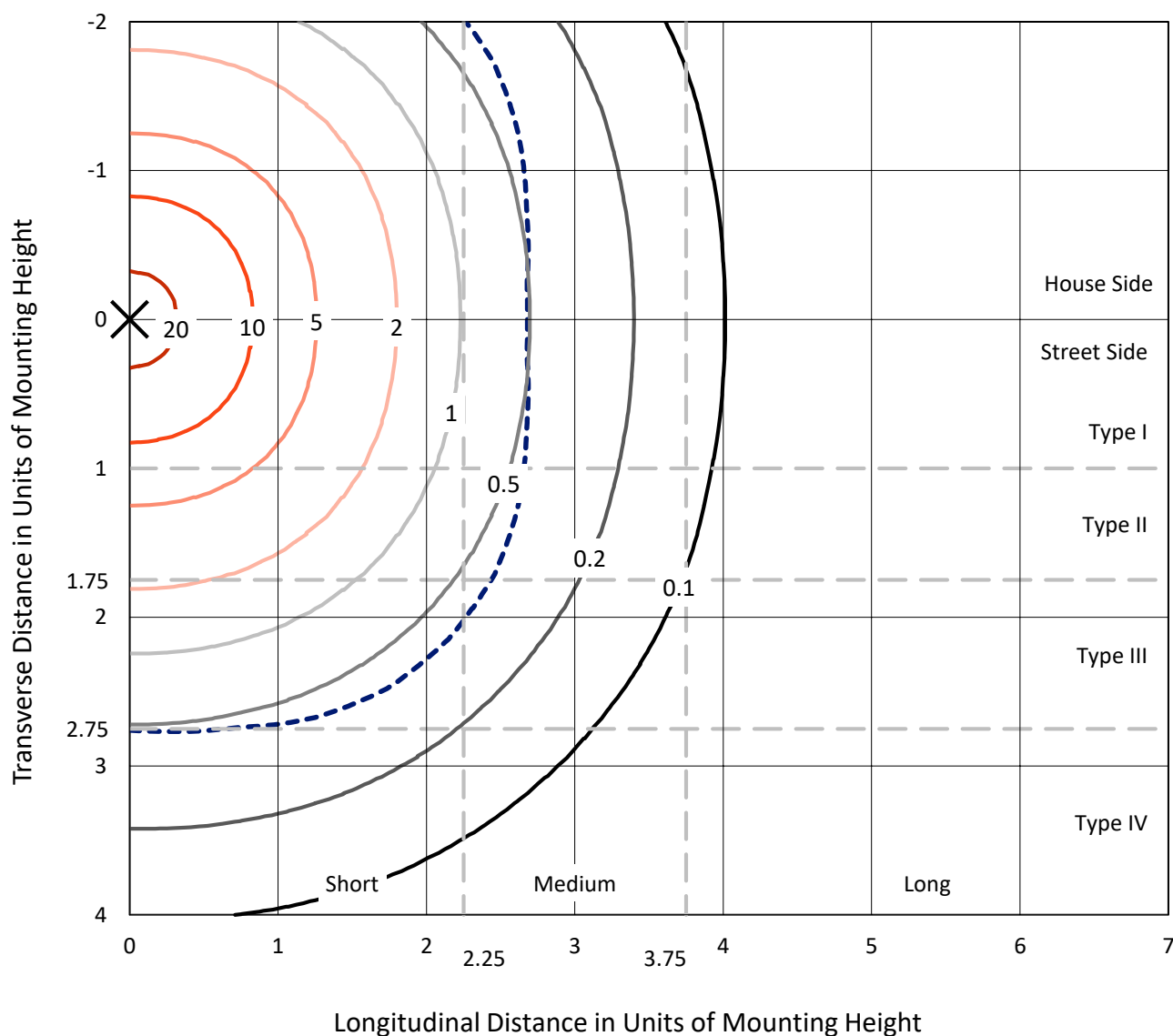
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

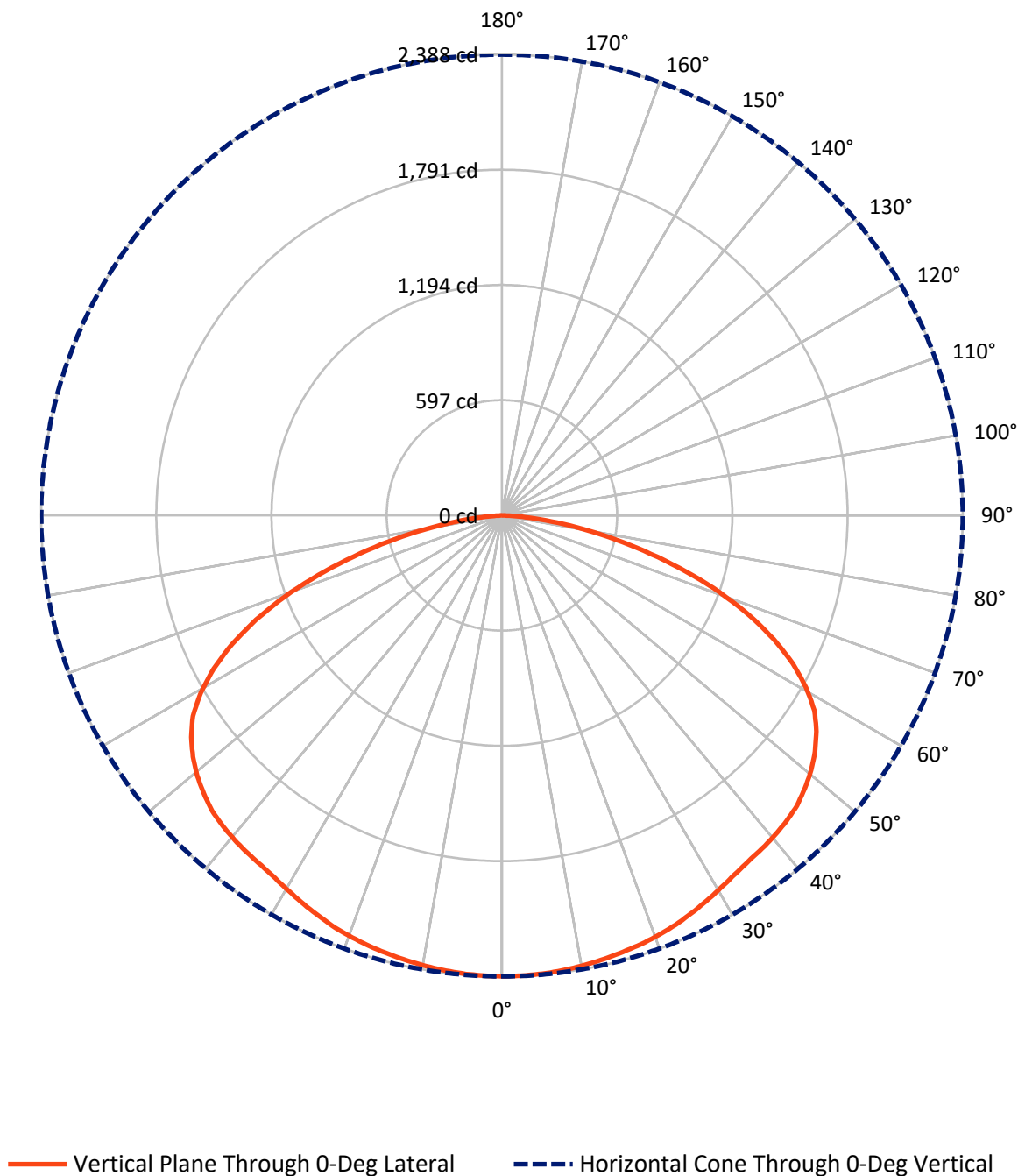


Based on 10 foot mounting height. Maximum calculated value = 23.9 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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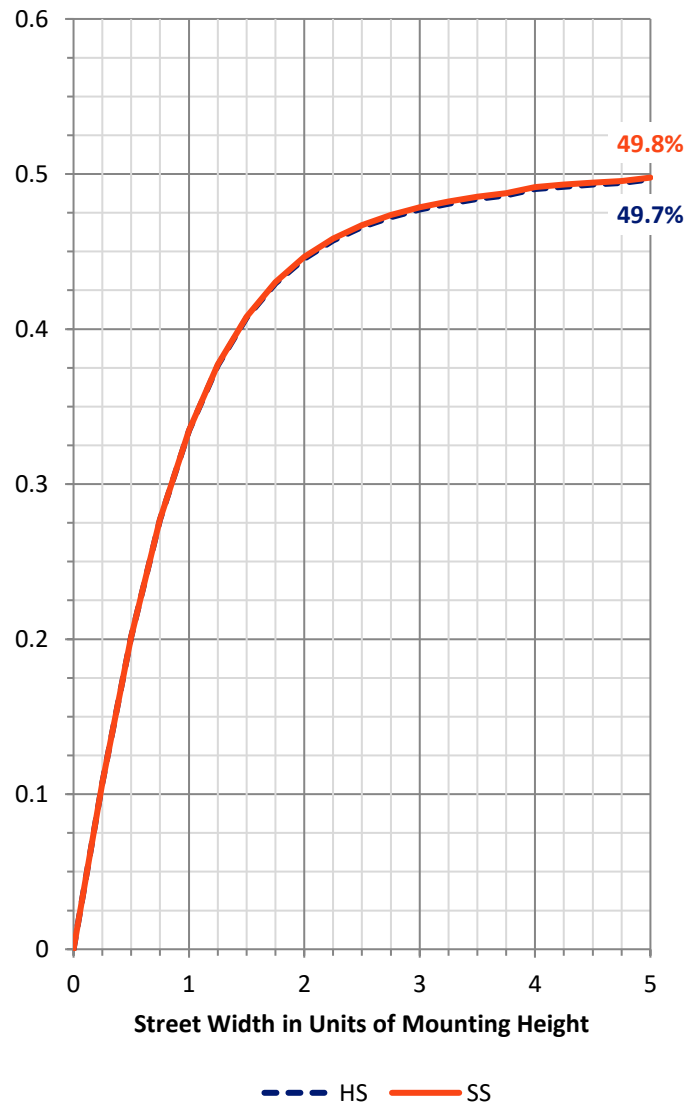
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4791.5	0.0	4791.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4791.5	0.0	4791.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	9583.0	0.0	9583.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.0	2.4
10°-20°	664.6	6.9
20°-30°	1057.3	11.0
30°-40°	1398.3	14.6
40°-50°	1706.3	17.8
50°-60°	1842.7	19.2
60°-70°	1595.8	16.7
70°-80°	904.8	9.4
80°-90°	186.1	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°	9583.0	100.0
0°-180°	9583.0	100.0

Coefficient of Utilization



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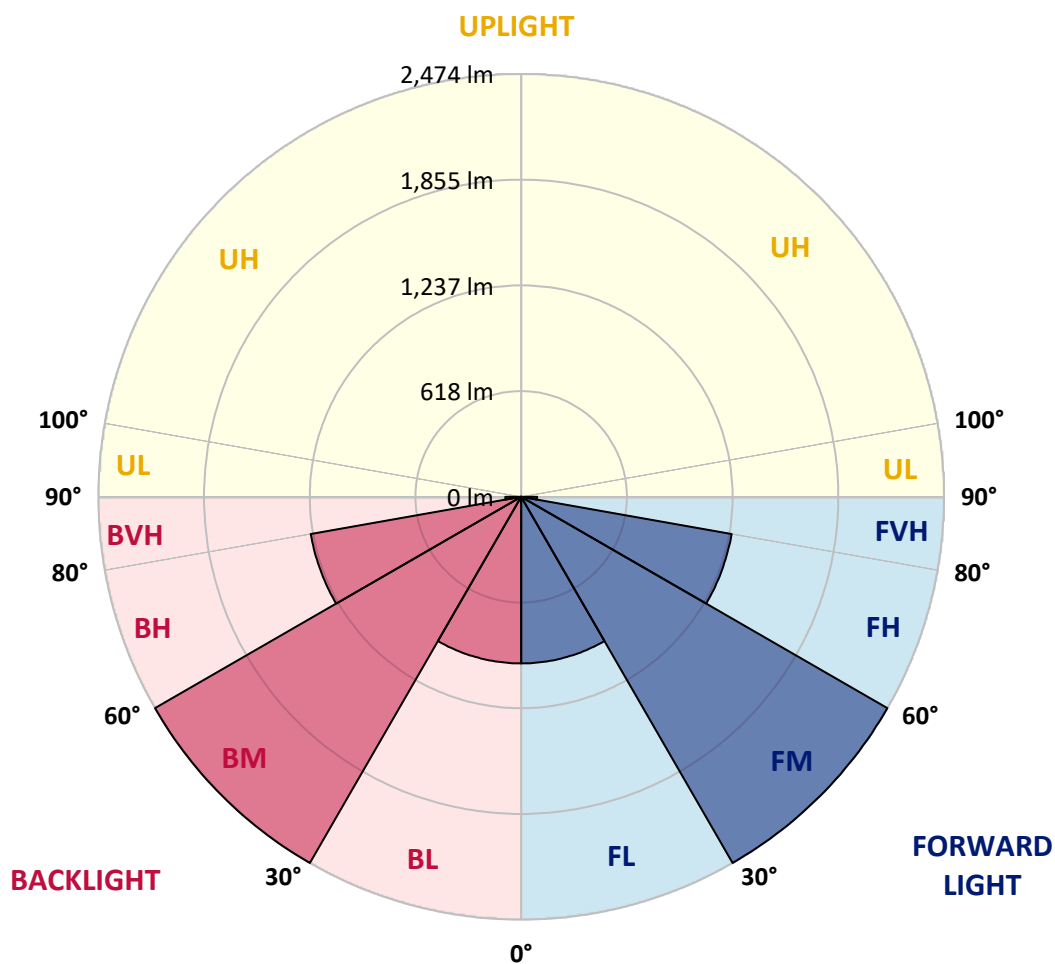
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	974.5	10.2			
FM	(30°-60°)	2473.7	25.8			
FH	(60°-80°)	1250.3	13.0			G1/1800
FVH	(80°-90°)	93.0	1.0			G1/100
BL	(0°-30°)	974.5	10.2	B2/1000		
BM	(30°-60°)	2473.7	25.8	B2/2500		
BH	(60°-80°)	1250.3	13.0	B3/2500		G1/1800
BVH	(80°-90°)	93.0	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°	2388.2	2388.2	2388.2	2388.2	2388.2	2388.2	2388.2	2388.2	2388.2	2388.2	2388.2
2.5°	2386.6	2386.6	2386.6	2386.6	2386.6	2386.6	2386.6	2386.6	2386.6	2386.6	2386.6
5°	2383.3	2383.3	2383.3	2383.3	2383.3	2383.3	2383.3	2383.3	2383.3	2383.3	2383.3
7.5°	2376.7	2376.7	2376.7	2376.7	2376.7	2378.3	2376.7	2376.7	2376.7	2376.7	2378.3
10°	2368.4	2368.4	2370.1	2370.1	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4	2368.4
12.5°	2358.5	2358.5	2358.5	2358.5	2358.5	2358.5	2358.5	2358.5	2356.9	2356.9	2356.9
15°	2347.0	2347.0	2347.0	2348.6	2348.6	2348.6	2348.6	2347.0	2345.3	2343.7	2345.3
17.5°	2335.4	2335.4	2337.1	2338.7	2338.7	2338.7	2338.7	2335.4	2333.8	2332.1	2332.1
20°	2320.6	2322.2	2322.2	2323.9	2325.5	2325.5	2325.5	2323.9	2320.6	2317.3	2317.3
22.5°	2304.1	2305.7	2307.4	2309.0	2310.7	2309.0	2309.0	2307.4	2304.1	2302.4	2300.8
25°	2282.7	2282.7	2285.9	2289.2	2290.9	2290.9	2290.9	2287.6	2284.3	2282.7	2281.0
27.5°	2261.2	2261.2	2264.5	2269.5	2271.1	2272.8	2269.5	2267.8	2262.9	2259.6	2259.6
30°	2238.1	2238.1	2243.1	2249.7	2254.6	2256.3	2254.6	2248.0	2241.4	2238.1	2238.1
32.5°	2216.7	2218.3	2223.3	2233.2	2241.4	2244.7	2243.1	2234.8	2226.6	2220.0	2218.3
35°	2200.2	2201.8	2211.7	2223.3	2236.5	2241.4	2236.5	2228.2	2215.0	2205.1	2205.1
37.5°	2190.3	2190.3	2203.5	2223.3	2238.1	2244.7	2238.1	2226.6	2208.4	2195.2	2195.2
40°	2178.7	2182.0	2198.5	2223.3	2244.7	2254.6	2246.4	2229.9	2206.8	2190.3	2188.6
42.5°	2163.9	2168.8	2187.0	2220.0	2246.4	2261.2	2253.0	2233.2	2205.1	2187.0	2185.3
45°	2144.1	2145.8	2168.8	2208.4	2243.1	2262.9	2256.3	2231.5	2200.2	2178.7	2175.4
47.5°	2112.8	2116.1	2144.1	2190.3	2233.2	2254.6	2249.7	2221.6	2182.0	2157.3	2152.4
50°	2076.5	2079.8	2112.8	2165.5	2213.4	2238.1	2229.9	2195.2	2152.4	2119.4	2116.1
52.5°	2032.0	2038.6	2074.8	2134.2	2185.3	2208.4	2195.2	2150.7	2101.2	2064.9	2061.6
55°	1977.5	1984.1	2025.4	2088.0	2139.2	2157.3	2139.2	2086.4	2033.6	1992.4	1984.1
57.5°	1909.9	1914.9	1954.4	2020.4	2069.9	2084.7	2061.6	2007.2	1944.5	1900.0	1895.1
60°	1810.9	1817.5	1863.7	1924.7	1974.2	1992.4	1969.3	1903.3	1835.7	1791.2	1789.5
62.5°	1692.2	1703.7	1743.3	1809.3	1853.8	1878.6	1847.2	1779.6	1712.0	1660.9	1660.9
65°	1548.7	1557.0	1599.8	1664.2	1707.0	1728.5	1697.1	1634.5	1560.3	1515.7	1510.8
67.5°	1383.8	1390.4	1428.3	1494.3	1540.5	1558.6	1524.0	1464.6	1395.3	1347.5	1342.5
70°	1200.7	1210.6	1238.6	1299.7	1340.9	1350.8	1324.4	1268.3	1205.6	1162.8	1159.5
72.5°	1001.1	1009.4	1045.7	1093.5	1126.5	1129.8	1113.3	1072.1	1007.7	973.1	968.1
75°	796.6	809.8	841.2	882.4	907.1	907.1	897.2	867.5	811.5	785.1	785.1
77.5°	603.6	610.2	643.2	671.3	691.1	701.0	689.4	663.0	618.5	600.4	590.5
80°	420.6	427.2	442.0	463.5	483.2	489.8	476.7	455.2	430.5	417.3	410.7
82.5°	257.3	263.9	272.1	283.7	296.9	303.5	295.2	282.0	260.6	258.9	257.3
85°	123.7	127.0	133.6	136.9	143.5	145.1	146.8	140.2	133.6	125.3	128.6
87.5°	37.9	37.9	39.6	41.2	44.5	44.5	44.5	42.9	39.6	37.9	37.9
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)