

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: P197571

Luminaire Tested: **TT-C4-LED-E1-CQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197571
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-C4-LED-E1-CQ-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
CONCENTRATED DISTRIBUTION
Light Source: (160) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7453 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

Input Watts (W): 58
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



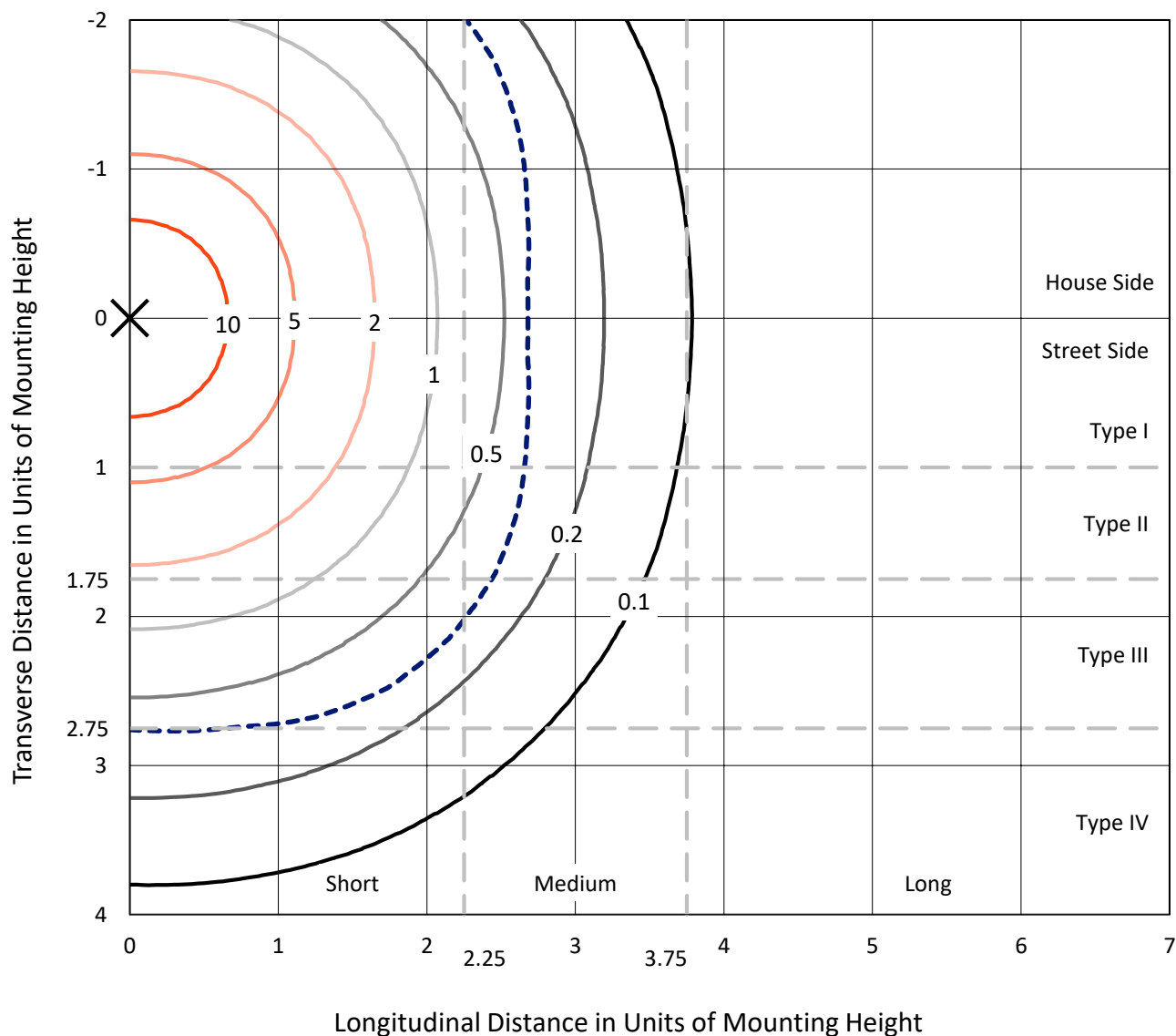
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

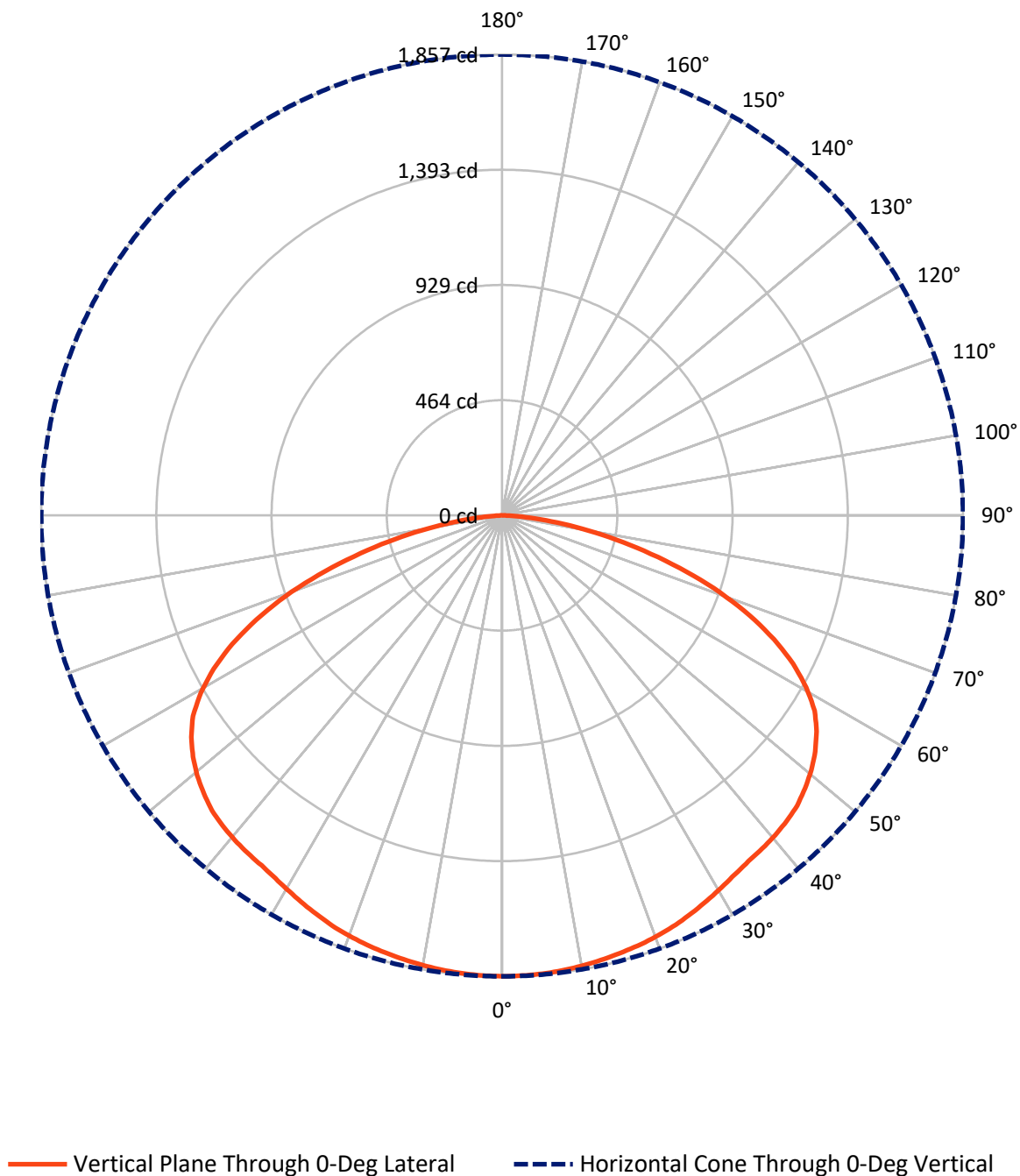


Based on 10 foot mounting height. Maximum calculated value = 18.6 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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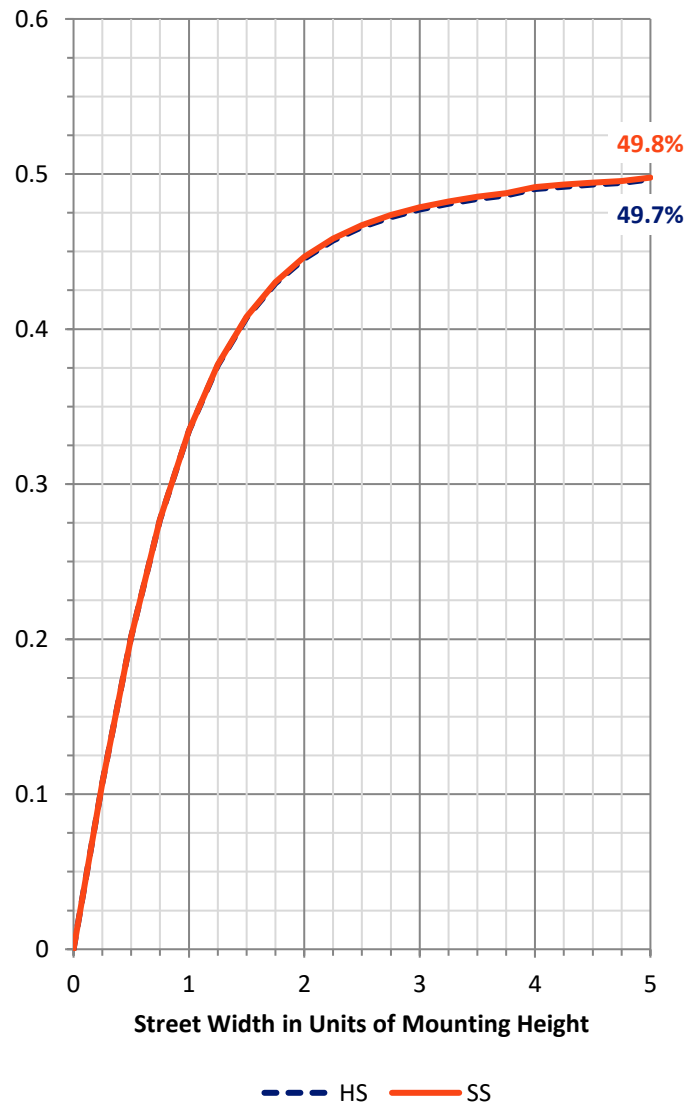
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3726.5	0.0	3726.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3726.5	0.0	3726.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	7453.0	0.0	7453.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.6	2.4
10°-20°	516.9	6.9
20°-30°	822.3	11.0
30°-40°	1087.5	14.6
40°-50°	1327.0	17.8
50°-60°	1433.2	19.2
60°-70°	1241.1	16.7
70°-80°	703.7	9.4
80°-90°	144.7	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°	7453.0	100.0
0°-180°	7453.0	100.0

Coefficient of Utilization



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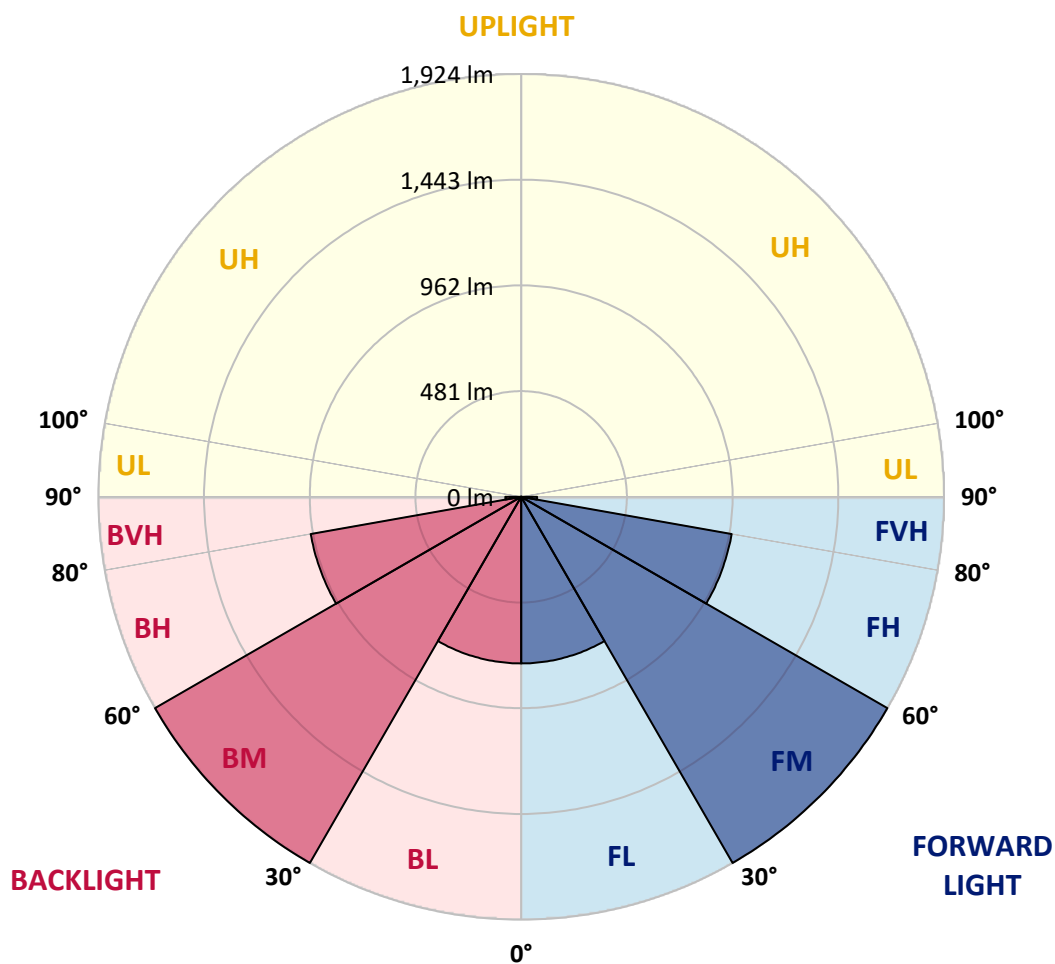
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	757.9	10.2			
FM	(30°-60°)	1923.9	25.8			
FH	(60°-80°)	972.4	13.0			G1/1800
FVH	(80°-90°)	72.4	1.0			G1/100
BL	(0°-30°)	757.9	10.2	B2/1000		
BM	(30°-60°)	1923.9	25.8	B2/2500		
BH	(60°-80°)	972.4	13.0	B2/1000		G1/1800
BVH	(80°-90°)	72.4	1.0			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°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1857.4	1857.4	1857.4	1857.4	1857.4	1857.4	1857.4	1857.4	1857.4	1857.4	1857.4
2.5°	1856.1	1856.1	1856.1	1856.1	1856.1	1856.1	1856.1	1856.1	1856.1	1856.1	1856.1
5°	1853.5	1853.5	1853.5	1853.5	1853.5	1853.5	1853.5	1853.5	1853.5	1853.5	1853.5
7.5°	1848.4	1848.4	1848.4	1848.4	1848.4	1849.7	1848.4	1848.4	1848.4	1848.4	1849.7
10°	1842.0	1842.0	1843.3	1843.3	1842.0	1842.0	1842.0	1842.0	1842.0	1842.0	1842.0
12.5°	1834.3	1834.3	1834.3	1834.3	1834.3	1834.3	1834.3	1834.3	1833.0	1833.0	1833.0
15°	1825.3	1825.3	1825.3	1826.6	1826.6	1826.6	1826.6	1825.3	1824.0	1822.7	1824.0
17.5°	1816.3	1816.3	1817.6	1818.9	1818.9	1818.9	1818.9	1816.3	1815.0	1813.8	1813.8
20°	1804.8	1806.1	1806.1	1807.4	1808.6	1808.6	1808.6	1807.4	1804.8	1802.2	1802.2
22.5°	1792.0	1793.2	1794.5	1795.8	1797.1	1795.8	1795.8	1794.5	1792.0	1790.7	1789.4
25°	1775.3	1775.3	1777.8	1780.4	1781.7	1781.7	1781.7	1779.1	1776.6	1775.3	1774.0
27.5°	1758.6	1758.6	1761.2	1765.0	1766.3	1767.6	1765.0	1763.7	1759.9	1757.3	1757.3
30°	1740.7	1740.7	1744.5	1749.6	1753.5	1754.8	1753.5	1748.3	1743.2	1740.7	1740.7
32.5°	1724.0	1725.3	1729.1	1736.8	1743.2	1745.8	1744.5	1738.1	1731.7	1726.5	1725.3
35°	1711.1	1712.4	1720.1	1729.1	1739.4	1743.2	1739.4	1733.0	1722.7	1715.0	1715.0
37.5°	1703.5	1703.5	1713.7	1729.1	1740.7	1745.8	1740.7	1731.7	1717.6	1707.3	1707.3
40°	1694.5	1697.0	1709.9	1729.1	1745.8	1753.5	1747.1	1734.2	1716.3	1703.5	1702.2
42.5°	1682.9	1686.8	1700.9	1726.5	1747.1	1758.6	1752.2	1736.8	1715.0	1700.9	1699.6
45°	1667.5	1668.8	1686.8	1717.6	1744.5	1759.9	1754.8	1735.5	1711.1	1694.5	1691.9
47.5°	1643.2	1645.7	1667.5	1703.5	1736.8	1753.5	1749.6	1727.8	1697.0	1677.8	1673.9
50°	1614.9	1617.5	1643.2	1684.2	1721.4	1740.7	1734.2	1707.3	1673.9	1648.3	1645.7
52.5°	1580.3	1585.4	1613.7	1659.8	1699.6	1717.6	1707.3	1672.7	1634.2	1606.0	1603.4
55°	1538.0	1543.1	1575.2	1623.9	1663.7	1677.8	1663.7	1622.6	1581.6	1549.5	1543.1
57.5°	1485.4	1489.2	1520.0	1571.3	1609.8	1621.4	1603.4	1561.1	1512.3	1477.7	1473.8
60°	1408.4	1413.6	1449.5	1496.9	1535.4	1549.5	1531.6	1480.3	1427.7	1393.0	1391.8
62.5°	1316.1	1325.0	1355.8	1407.1	1441.8	1461.0	1436.6	1384.1	1331.5	1291.7	1291.7
65°	1204.5	1210.9	1244.2	1294.3	1327.6	1344.3	1319.9	1271.2	1213.5	1178.8	1175.0
67.5°	1076.2	1081.3	1110.8	1162.1	1198.1	1212.2	1185.2	1139.1	1085.2	1048.0	1044.1
70°	933.8	941.5	963.3	1010.8	1042.9	1050.5	1030.0	986.4	937.7	904.3	901.8
72.5°	778.6	785.0	813.2	850.4	876.1	878.7	865.8	833.8	783.7	756.8	753.0
75°	619.6	629.8	654.2	686.3	705.5	705.5	697.8	674.7	631.1	610.6	610.6
77.5°	469.5	474.6	500.3	522.1	537.5	545.2	536.2	515.7	481.0	466.9	459.2
80°	327.1	332.2	343.8	360.4	375.8	381.0	370.7	354.0	334.8	324.5	319.4
82.5°	200.1	205.2	211.6	220.6	230.9	236.0	229.6	219.3	202.7	201.4	200.1
85°	96.2	98.8	103.9	106.5	111.6	112.9	114.2	109.0	103.9	97.5	100.1
87.5°	29.5	29.5	30.8	32.1	34.6	34.6	34.6	33.4	30.8	29.5	29.5
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)