

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: P400669

Luminaire Tested: **TT-D5-835-U-MQ**

Issue Date: 6/3/2020

Test Information

Test Method: LM-79-08
Report Number: P400669
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1908-473-16)
Test Lab: INNOVATION CENTER
Issue Date: 6/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-D5-835-U-MQ
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
3500K, 80 CRI LEDS AND MEDIUM DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8969 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 74.7
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

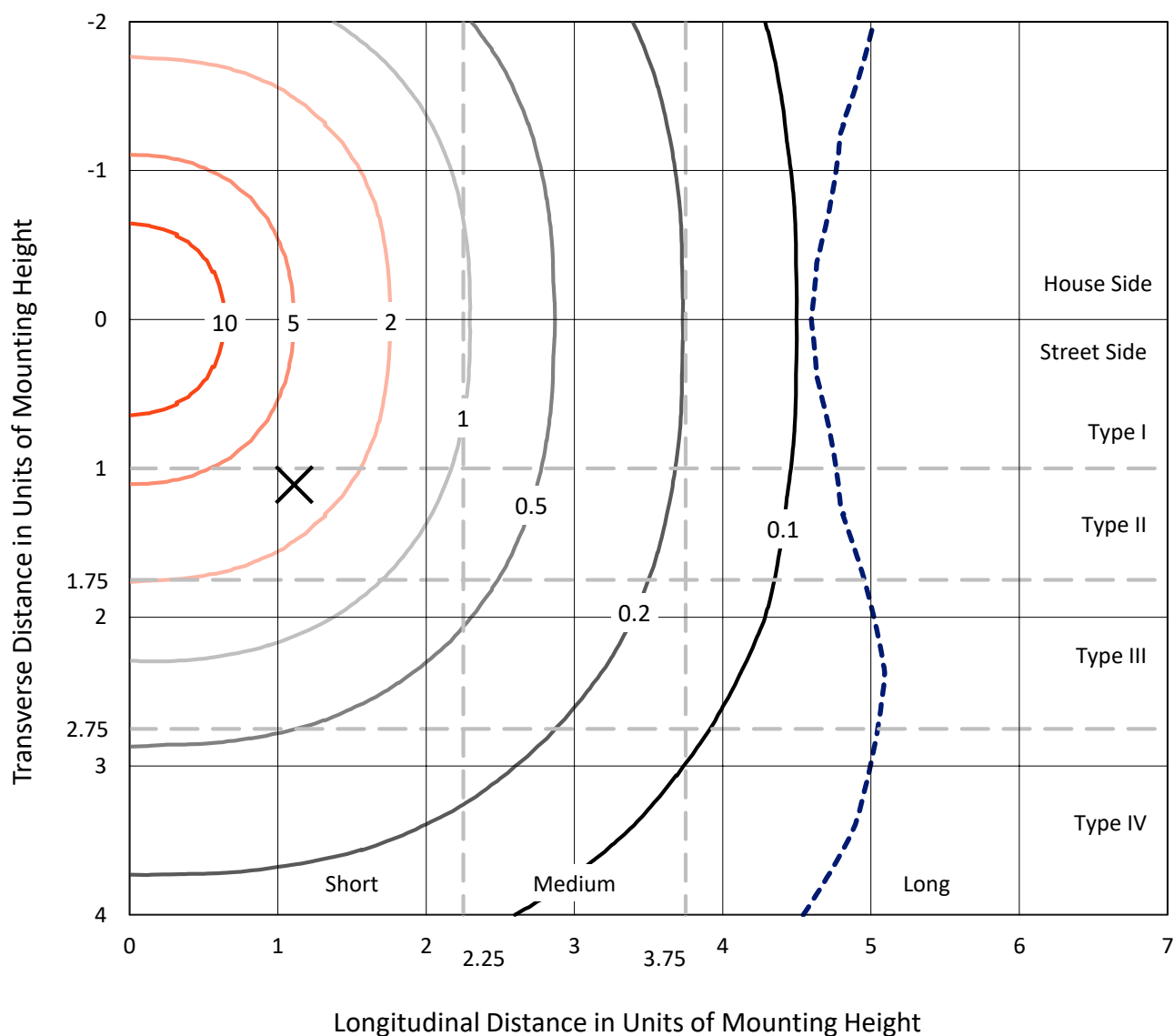


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

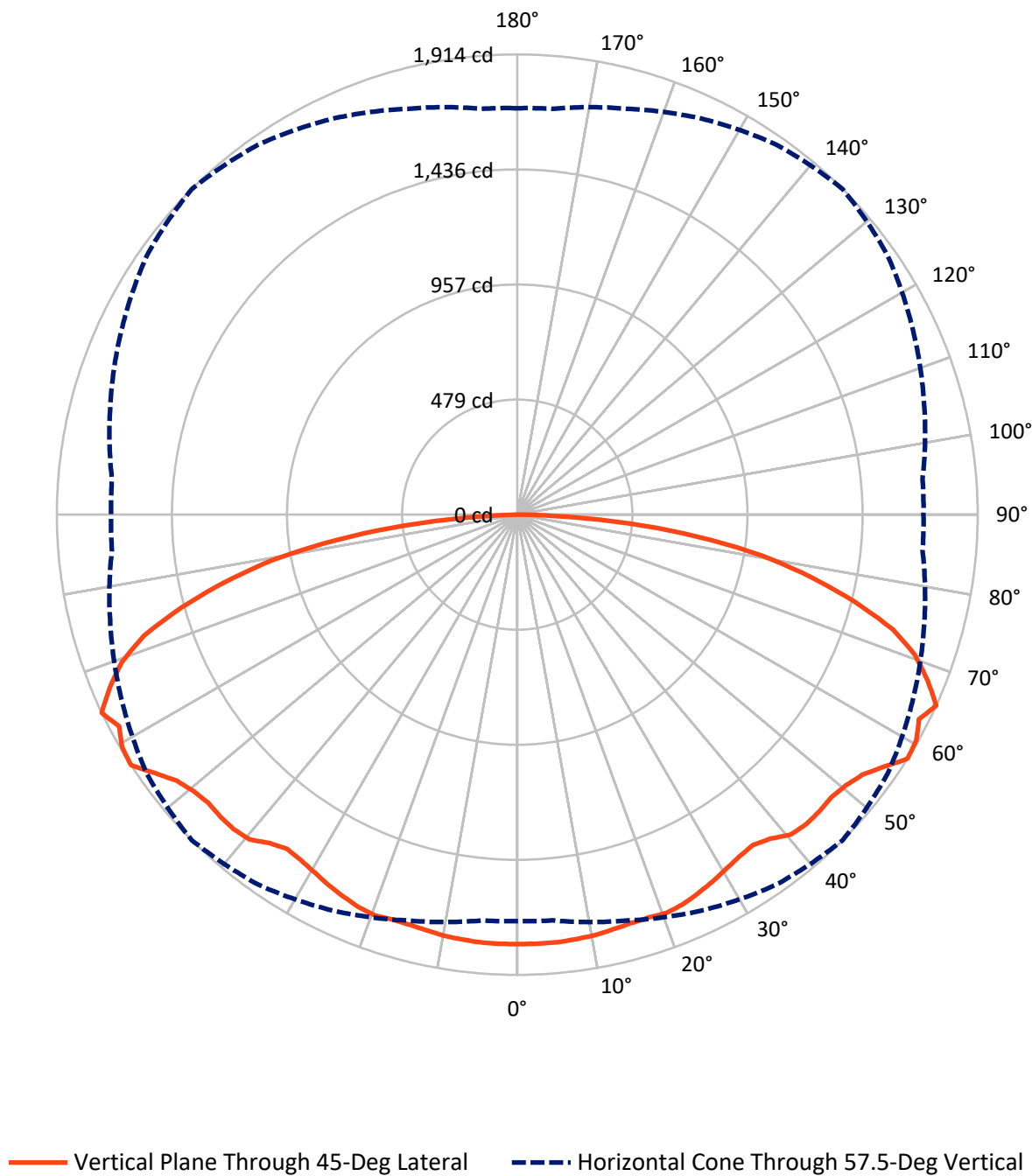


Based on 10 foot mounting height. Maximum calculated value = 17.9 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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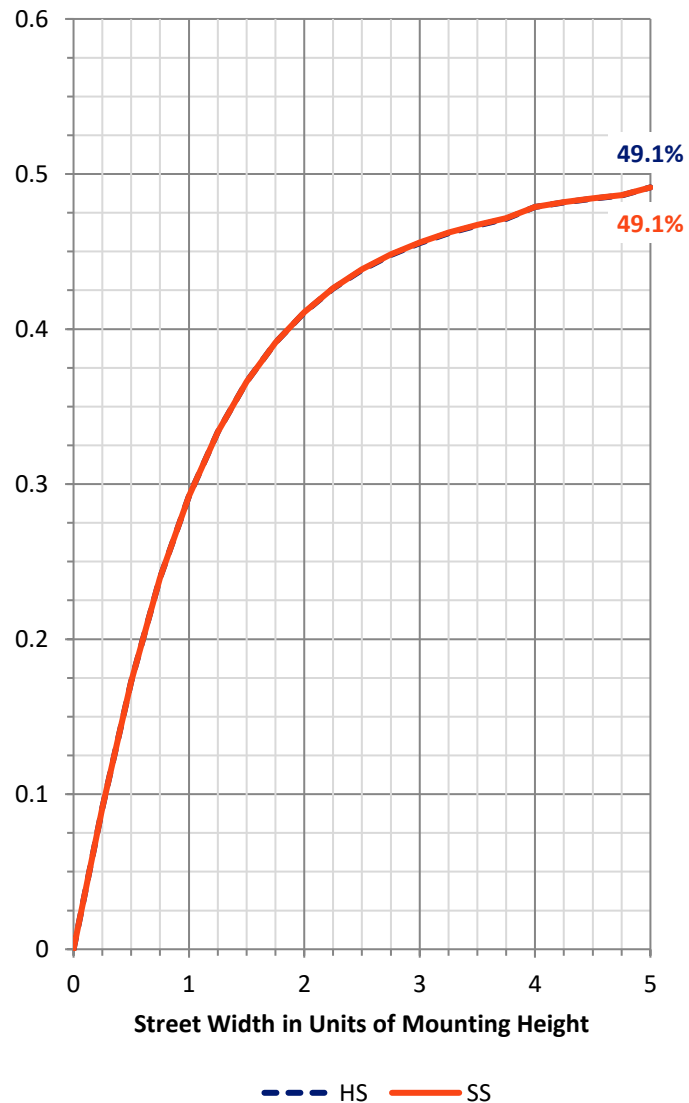
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4484.5	0.0	4484.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4484.5	0.0	4484.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8969.0	0.0	8969.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.2	1.9
10°-20°	500.7	5.6
20°-30°	804.5	9.0
30°-40°	1062.1	11.8
40°-50°	1328.8	14.8
50°-60°	1580.5	17.6
60°-70°	1714.2	19.1
70°-80°	1364.4	15.2
80°-90°	443.5	4.9
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°	8969.0	100.0
0°-180°	8969.0	100.0

Coefficient of Utilization



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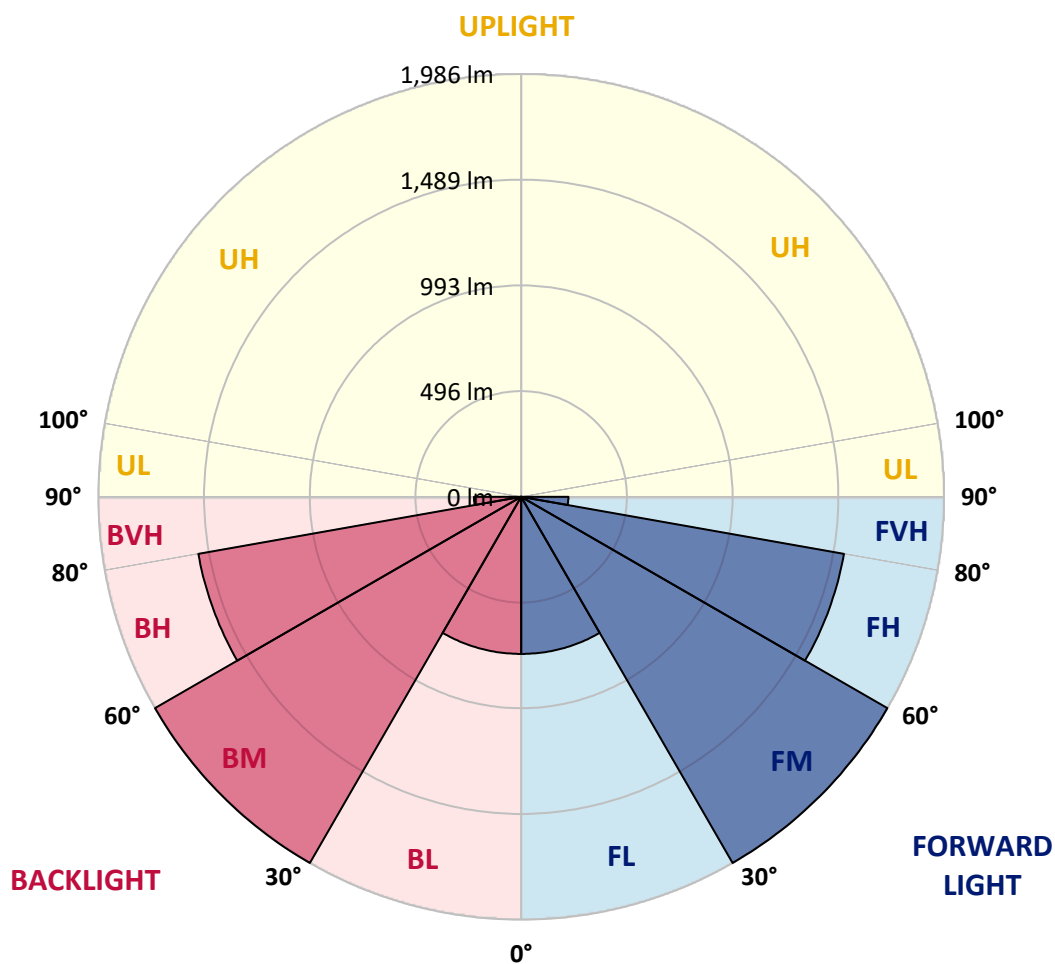
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	737.7	8.2			
FM	(30°-60°)	1985.7	22.1			
FH	(60°-80°)	1539.3	17.2			G1/1800
FVH	(80°-90°)	221.8	2.5			G2/225
BL	(0°-30°)	737.7	8.2	B2/1000		
BM	(30°-60°)	1985.7	22.1	B2/2500		
BH	(60°-80°)	1539.3	17.2	B3/2500		G1/1800
BVH	(80°-90°)	221.8	2.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1786.3	1786.3	1786.3	1786.3	1786.3	1786.3	1786.3	1786.3	1786.3	1786.3	1786.3
2.5°	1789.0	1787.7	1789.0	1787.7	1787.7	1786.3	1787.7	1787.7	1787.7	1787.7	1787.7
5°	1787.7	1786.3	1786.3	1787.7	1786.3	1786.3	1786.3	1786.3	1786.3	1786.3	1786.3
7.5°	1782.3	1782.3	1783.7	1782.3	1782.3	1782.3	1782.3	1782.3	1782.3	1783.7	1783.7
10°	1778.3	1777.0	1778.3	1778.3	1777.0	1778.3	1777.0	1778.3	1778.3	1778.3	1778.3
12.5°	1773.0	1771.7	1773.0	1773.0	1771.7	1770.3	1771.7	1771.7	1773.0	1773.0	1773.0
15°	1763.7	1763.7	1766.3	1765.0	1765.0	1763.7	1766.3	1765.0	1763.7	1765.0	1765.0
17.5°	1757.0	1757.0	1759.7	1762.3	1762.3	1762.3	1762.3	1761.0	1758.3	1759.7	1757.0
20°	1758.3	1759.7	1761.0	1765.0	1767.7	1769.0	1769.0	1765.0	1761.0	1762.3	1761.0
22.5°	1754.3	1753.0	1754.3	1757.0	1761.0	1761.0	1761.0	1755.7	1754.3	1753.0	1753.0
25°	1738.3	1738.3	1741.0	1743.7	1746.3	1745.0	1746.3	1743.7	1741.0	1738.3	1738.3
27.5°	1719.6	1719.6	1723.6	1726.3	1729.0	1729.0	1727.6	1725.0	1723.6	1721.0	1719.6
30°	1701.0	1701.0	1705.0	1707.6	1711.6	1710.3	1710.3	1706.3	1702.3	1699.6	1699.6
32.5°	1681.0	1679.6	1683.6	1690.3	1695.6	1695.6	1695.6	1687.6	1682.3	1679.6	1678.3
35°	1663.6	1663.6	1668.9	1681.0	1687.6	1687.6	1685.0	1679.6	1667.6	1663.6	1663.6
37.5°	1658.3	1662.3	1677.0	1694.3	1707.6	1710.3	1706.3	1691.6	1675.6	1663.6	1659.6
40°	1675.6	1679.6	1698.3	1726.3	1746.3	1750.3	1746.3	1725.0	1697.0	1678.3	1677.0
42.5°	1678.3	1681.0	1703.6	1735.7	1754.3	1761.0	1754.3	1733.0	1702.3	1679.6	1678.3
45°	1668.9	1670.3	1697.0	1730.3	1753.0	1761.0	1753.0	1727.6	1695.6	1670.3	1668.9
47.5°	1656.9	1659.6	1689.0	1723.6	1751.7	1757.0	1750.3	1722.3	1686.3	1660.9	1656.9
50°	1647.6	1655.6	1682.3	1721.0	1754.3	1770.3	1754.3	1717.0	1681.0	1652.9	1647.6
52.5°	1652.9	1655.6	1690.3	1745.0	1790.3	1797.0	1789.0	1745.0	1687.6	1655.6	1651.6
55°	1668.9	1681.0	1718.3	1797.0	1838.4	1850.4	1833.0	1794.4	1719.6	1681.0	1668.9
57.5°	1690.3	1694.3	1747.7	1817.0	1878.4	1914.4	1879.7	1815.7	1751.7	1691.6	1689.0
60°	1672.9	1660.9	1727.6	1809.0	1891.7	1906.4	1886.4	1810.4	1725.0	1659.6	1671.6
62.5°	1626.3	1634.3	1689.0	1801.0	1858.4	1874.4	1853.1	1801.0	1686.3	1640.9	1622.3
65°	1588.9	1636.9	1697.0	1777.0	1869.1	1914.4	1870.4	1774.3	1699.6	1628.9	1584.9
67.5°	1536.9	1546.2	1635.6	1734.3	1817.0	1839.7	1815.7	1735.7	1627.6	1539.5	1546.2
70°	1448.8	1435.5	1526.2	1640.9	1719.6	1755.7	1722.3	1635.6	1522.2	1432.8	1444.8
72.5°	1303.4	1311.4	1395.5	1516.9	1598.2	1632.9	1599.6	1507.5	1392.8	1319.4	1311.4
75°	1151.3	1160.7	1242.0	1352.8	1435.5	1450.2	1440.8	1346.1	1244.7	1159.3	1151.3
77.5°	977.9	987.2	1053.9	1175.3	1224.7	1247.4	1227.4	1182.0	1051.3	985.9	975.2
80°	785.8	783.1	841.8	945.9	1007.2	1032.6	1007.2	948.5	839.1	788.4	771.1
82.5°	561.7	564.3	619.0	691.1	749.8	757.8	745.8	697.7	613.7	571.0	547.0
85°	312.2	324.2	364.2	417.6	456.3	469.6	449.6	404.2	362.9	329.5	318.8
87.5°	74.7	81.4	94.7	120.1	134.7	148.1	134.7	125.4	89.4	81.4	74.7
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)