

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: P400665

Luminaire Tested: **TT-D5-827-U-MQ**

Issue Date: 6/3/2020

Test Information

Test Method: LM-79-08
Report Number: P400665
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-D5-827-U-MQ
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
2700K, 80 CRI LEDS AND MEDIUM DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8417 lumens
Efficiency: N/A
Efficacy: 112.7 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



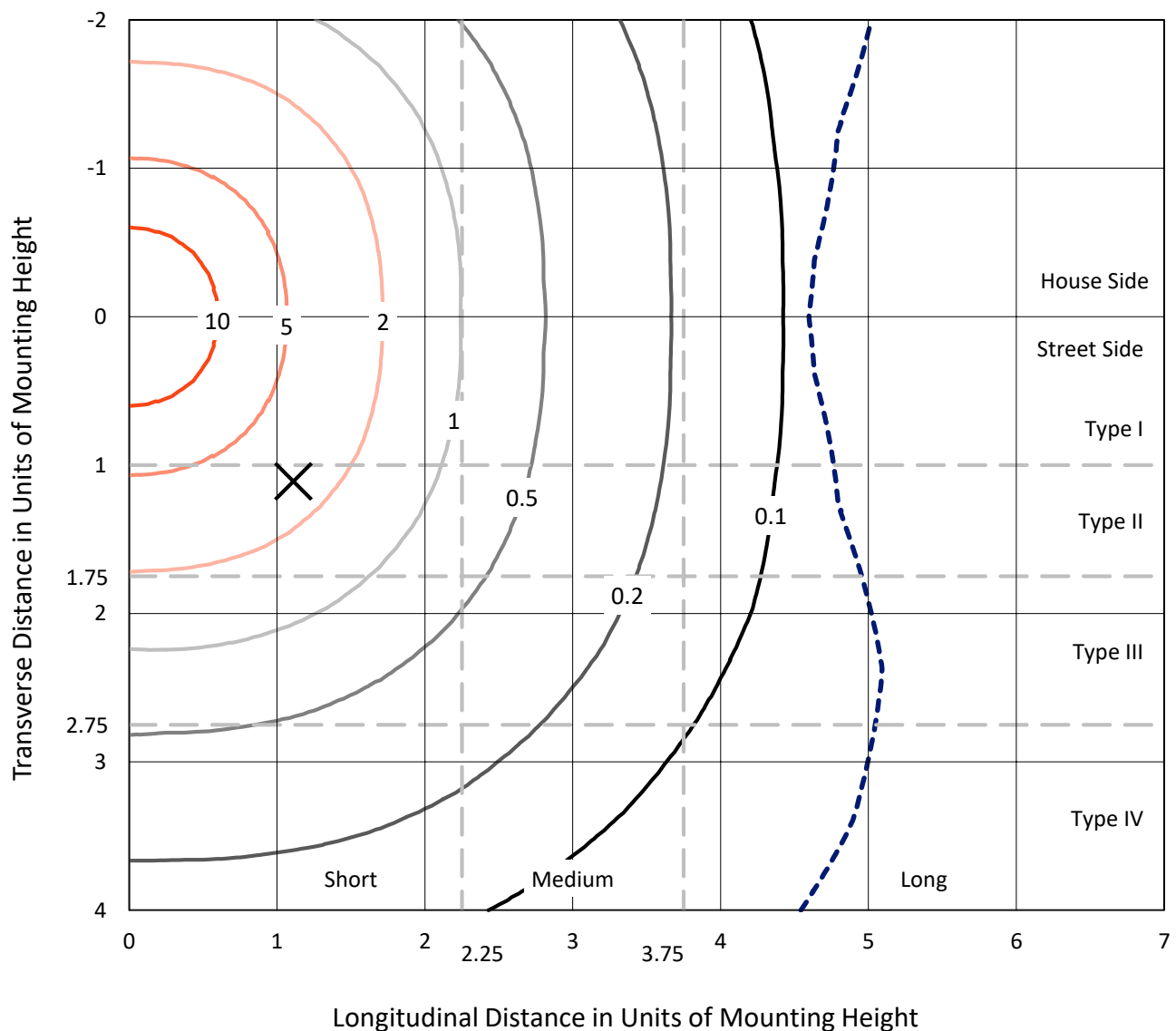
REPORT NUMBER: P400665

CATALOG NUMBER: TT-D5-827-U-MQ

Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd

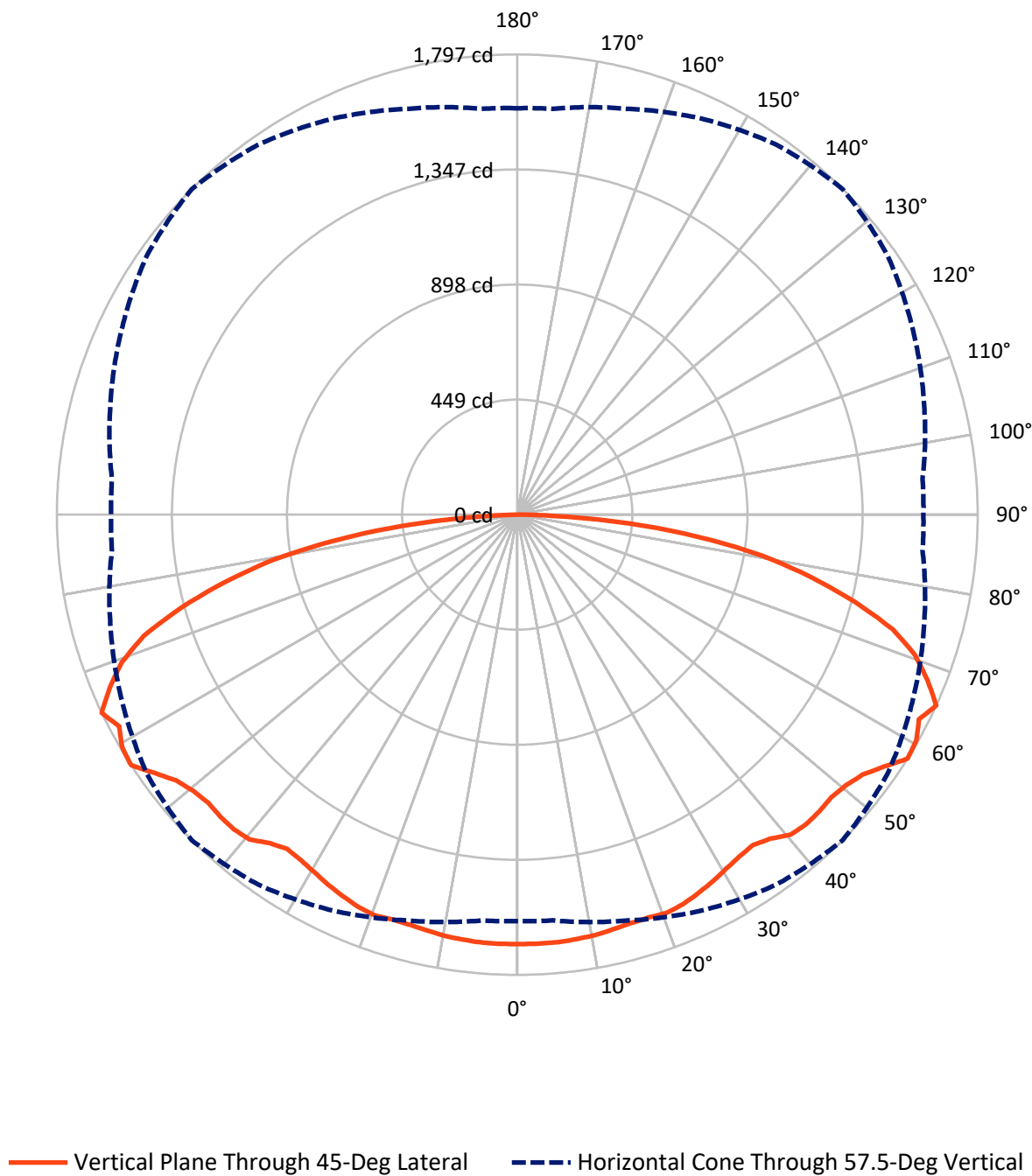


Based on 10 foot mounting height. Maximum calculated value = 16.8 fc
Type V - Short - Semi-Cutoff

REPORT NUMBER: P400665

CATALOG NUMBER: TT-D5-827-U-MQ

Luminous Intensity Polar Plot



REPORT NUMBER: P400665

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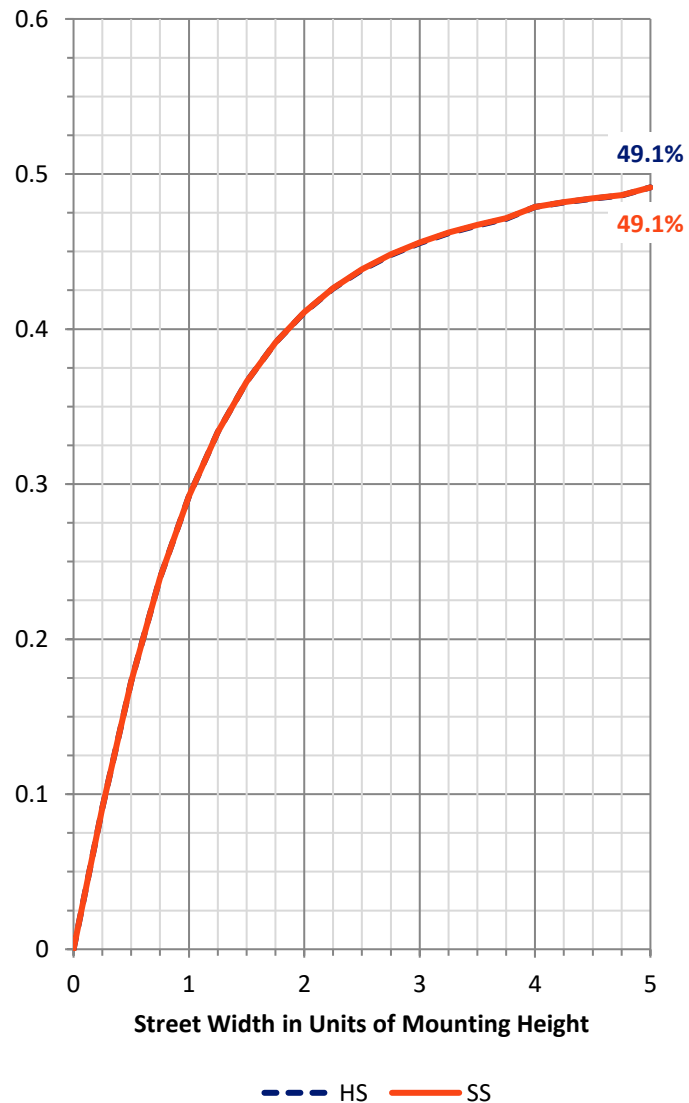
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4208.5	0.0	4208.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4208.5	0.0	4208.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8417.0	0.0	8417.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.8	1.9
10°-20°	469.9	5.6
20°-30°	755.0	9.0
30°-40°	996.7	11.8
40°-50°	1247.0	14.8
50°-60°	1483.2	17.6
60°-70°	1608.7	19.1
70°-80°	1280.5	15.2
80°-90°	416.2	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°	8417.0	100.0
0°-180°	8417.0	100.0

Coefficient of Utilization



REPORT NUMBER: P400665

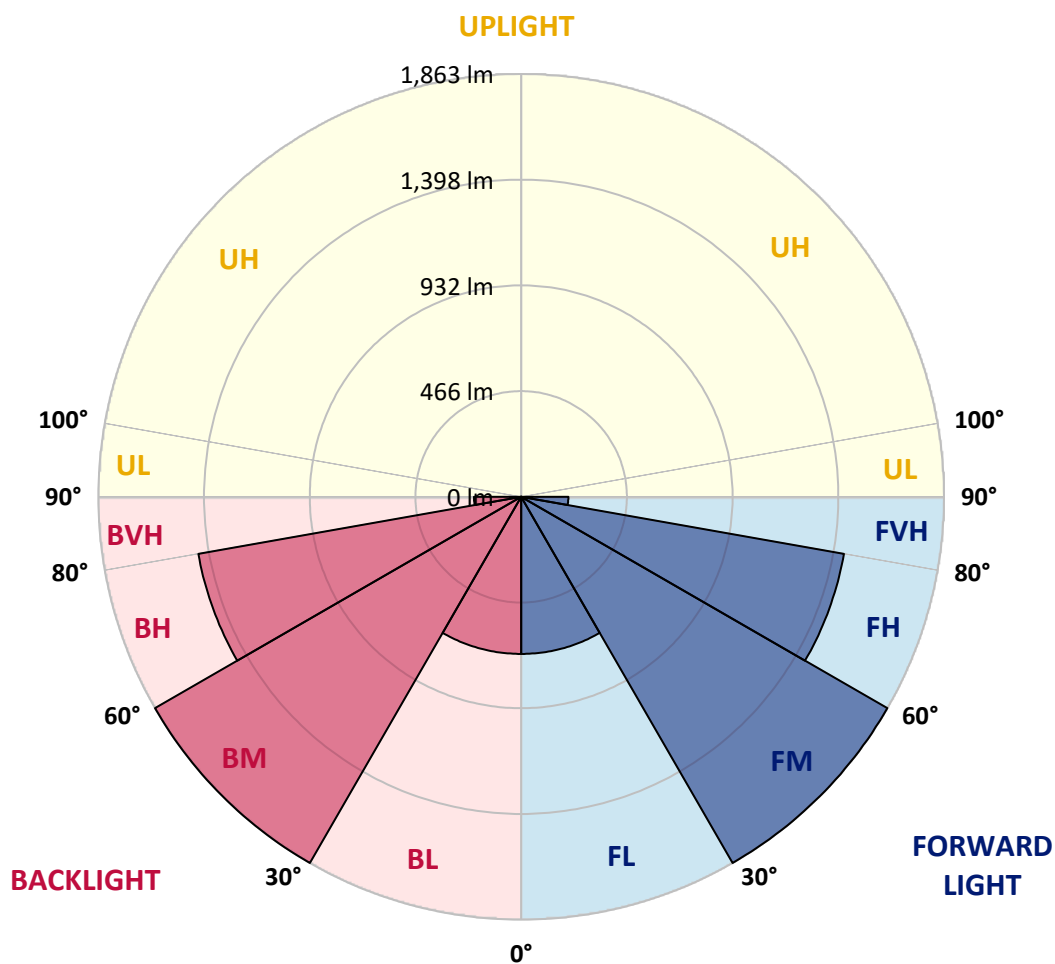
CATALOG NUMBER: TT-D5-827-U-MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	692.3	8.2			
FM	(30°-60°)	1863.5	22.1			
FH	(60°-80°)	1444.6	17.2			G1/1800
FVH	(80°-90°)	208.1	2.5			G2/225
BL	(0°-30°)	692.3	8.2	B2/1000		
BM	(30°-60°)	1863.5	22.1	B2/2500		
BH	(60°-80°)	1444.6	17.2	B3/2500		G1/1800
BVH	(80°-90°)	208.1	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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CATALOG NUMBER: TT-D5-827-U-MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1676.4	1676.4	1676.4	1676.4	1676.4	1676.4	1676.4	1676.4	1676.4	1676.4	1676.4
2.5°	1678.9	1677.7	1678.9	1677.7	1677.7	1676.4	1677.7	1677.7	1677.7	1677.7	1677.7
5°	1677.7	1676.4	1676.4	1677.7	1676.4	1676.4	1676.4	1676.4	1676.4	1676.4	1676.4
7.5°	1672.7	1672.7	1673.9	1672.7	1672.7	1672.7	1672.7	1672.7	1672.7	1673.9	1673.9
10°	1668.9	1667.6	1668.9	1668.9	1667.6	1668.9	1667.6	1668.9	1668.9	1668.9	1668.9
12.5°	1663.9	1662.6	1663.9	1663.9	1662.6	1661.4	1662.6	1662.6	1663.9	1663.9	1663.9
15°	1655.1	1655.1	1657.6	1656.4	1656.4	1655.1	1657.6	1656.4	1655.1	1656.4	1656.4
17.5°	1648.9	1648.9	1651.4	1653.9	1653.9	1653.9	1653.9	1652.6	1650.1	1651.4	1648.9
20°	1650.1	1651.4	1652.6	1656.4	1658.9	1660.1	1660.1	1656.4	1652.6	1653.9	1652.6
22.5°	1646.4	1645.1	1646.4	1648.9	1652.6	1652.6	1652.6	1647.6	1646.4	1645.1	1645.1
25°	1631.3	1631.3	1633.8	1636.3	1638.8	1637.6	1638.8	1636.3	1633.8	1631.3	1631.3
27.5°	1613.8	1613.8	1617.6	1620.1	1622.6	1622.6	1621.3	1618.8	1617.6	1615.1	1613.8
30°	1596.3	1596.3	1600.0	1602.5	1606.3	1605.0	1605.0	1601.3	1597.5	1595.0	1595.0
32.5°	1577.5	1576.2	1580.0	1586.3	1591.3	1591.3	1591.3	1583.8	1578.8	1576.2	1575.0
35°	1561.2	1561.2	1566.2	1577.5	1583.8	1583.8	1581.3	1576.2	1565.0	1561.2	1561.2
37.5°	1556.2	1560.0	1573.7	1590.0	1602.5	1605.0	1601.3	1587.5	1572.5	1561.2	1557.5
40°	1572.5	1576.2	1593.8	1620.1	1638.8	1642.6	1638.8	1618.8	1592.5	1575.0	1573.7
42.5°	1575.0	1577.5	1598.8	1628.8	1646.4	1652.6	1646.4	1626.3	1597.5	1576.2	1575.0
45°	1566.2	1567.5	1592.5	1623.8	1645.1	1652.6	1645.1	1621.3	1591.3	1567.5	1566.2
47.5°	1555.0	1557.5	1585.0	1617.6	1643.9	1648.9	1642.6	1616.3	1582.5	1558.7	1555.0
50°	1546.2	1553.7	1578.8	1615.1	1646.4	1661.4	1646.4	1611.3	1577.5	1551.2	1546.2
52.5°	1551.2	1553.7	1586.3	1637.6	1680.2	1686.4	1678.9	1637.6	1583.8	1553.7	1550.0
55°	1566.2	1577.5	1612.6	1686.4	1725.2	1736.5	1720.2	1683.9	1613.8	1577.5	1566.2
57.5°	1586.3	1590.0	1640.1	1705.2	1762.8	1796.6	1764.0	1704.0	1643.9	1587.5	1585.0
60°	1570.0	1558.7	1621.3	1697.7	1775.3	1789.1	1770.3	1698.9	1618.8	1557.5	1568.7
62.5°	1526.2	1533.7	1585.0	1690.2	1744.0	1759.0	1739.0	1690.2	1582.5	1539.9	1522.4
65°	1491.1	1536.2	1592.5	1667.6	1754.0	1796.6	1755.3	1665.1	1595.0	1528.7	1487.4
67.5°	1442.3	1451.0	1534.9	1627.6	1705.2	1726.5	1704.0	1628.8	1527.4	1444.8	1451.0
70°	1359.7	1347.1	1432.3	1539.9	1613.8	1647.6	1616.3	1534.9	1428.5	1344.6	1355.9
72.5°	1223.2	1230.7	1309.6	1423.5	1499.9	1532.4	1501.1	1414.7	1307.1	1238.2	1230.7
75°	1080.5	1089.2	1165.6	1269.5	1347.1	1360.9	1352.1	1263.3	1168.1	1088.0	1080.5
77.5°	917.7	926.5	989.1	1103.0	1149.3	1170.6	1151.8	1109.3	986.6	925.2	915.2
80°	737.4	734.9	790.0	887.7	945.2	969.0	945.2	890.2	787.5	739.9	723.6
82.5°	527.1	529.6	580.9	648.5	703.6	711.1	699.9	654.8	575.9	535.8	513.3
85°	293.0	304.2	341.8	391.9	428.2	440.7	421.9	379.4	340.5	309.2	299.2
87.5°	70.1	76.4	88.9	112.7	126.5	139.0	126.5	117.7	83.9	76.4	70.1
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)