

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: P197648

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197648
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33410)
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-MQ-7060
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
MEDIUM DISTRIBUTION
Light Source: (160) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9441.1 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

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



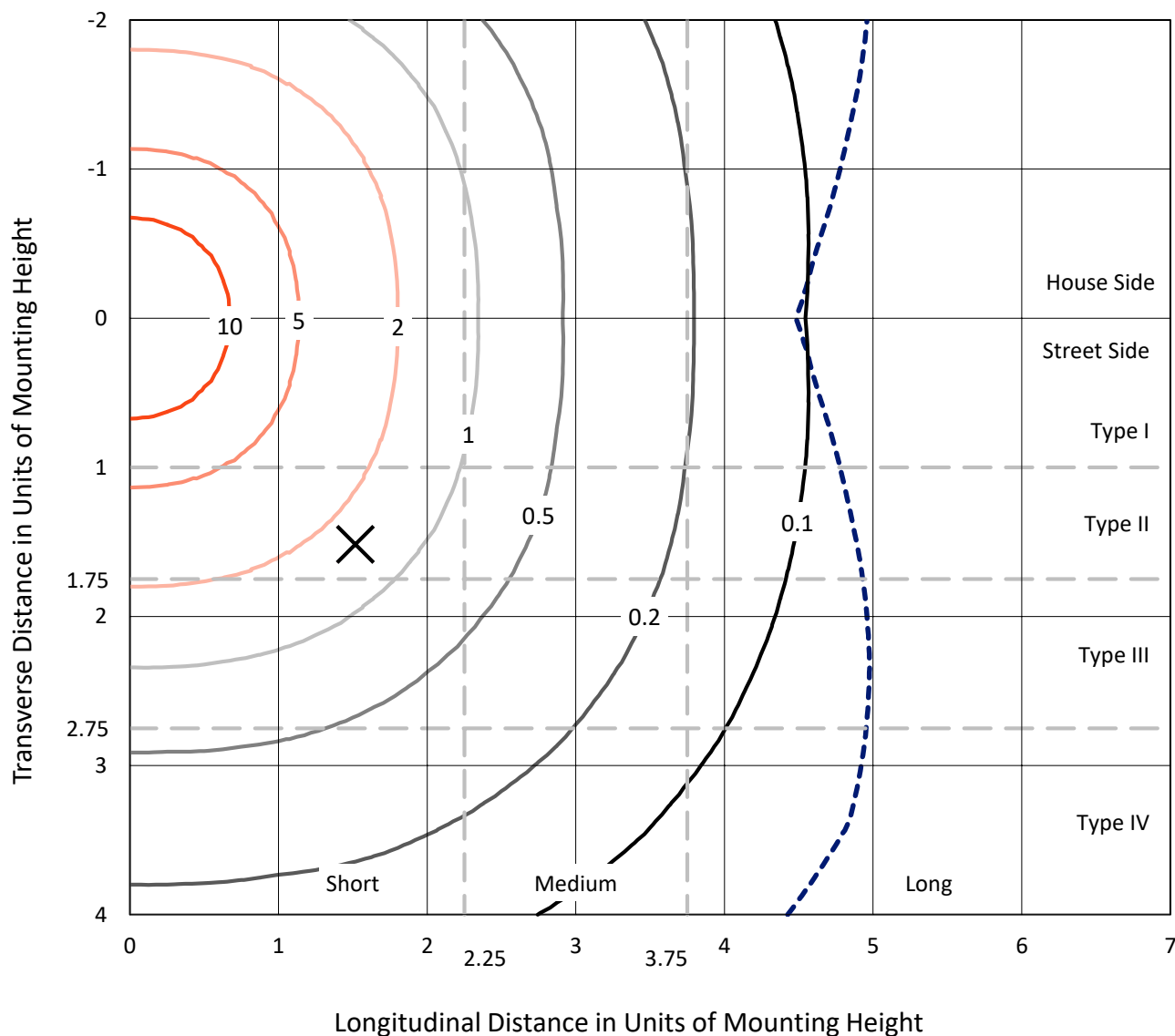
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

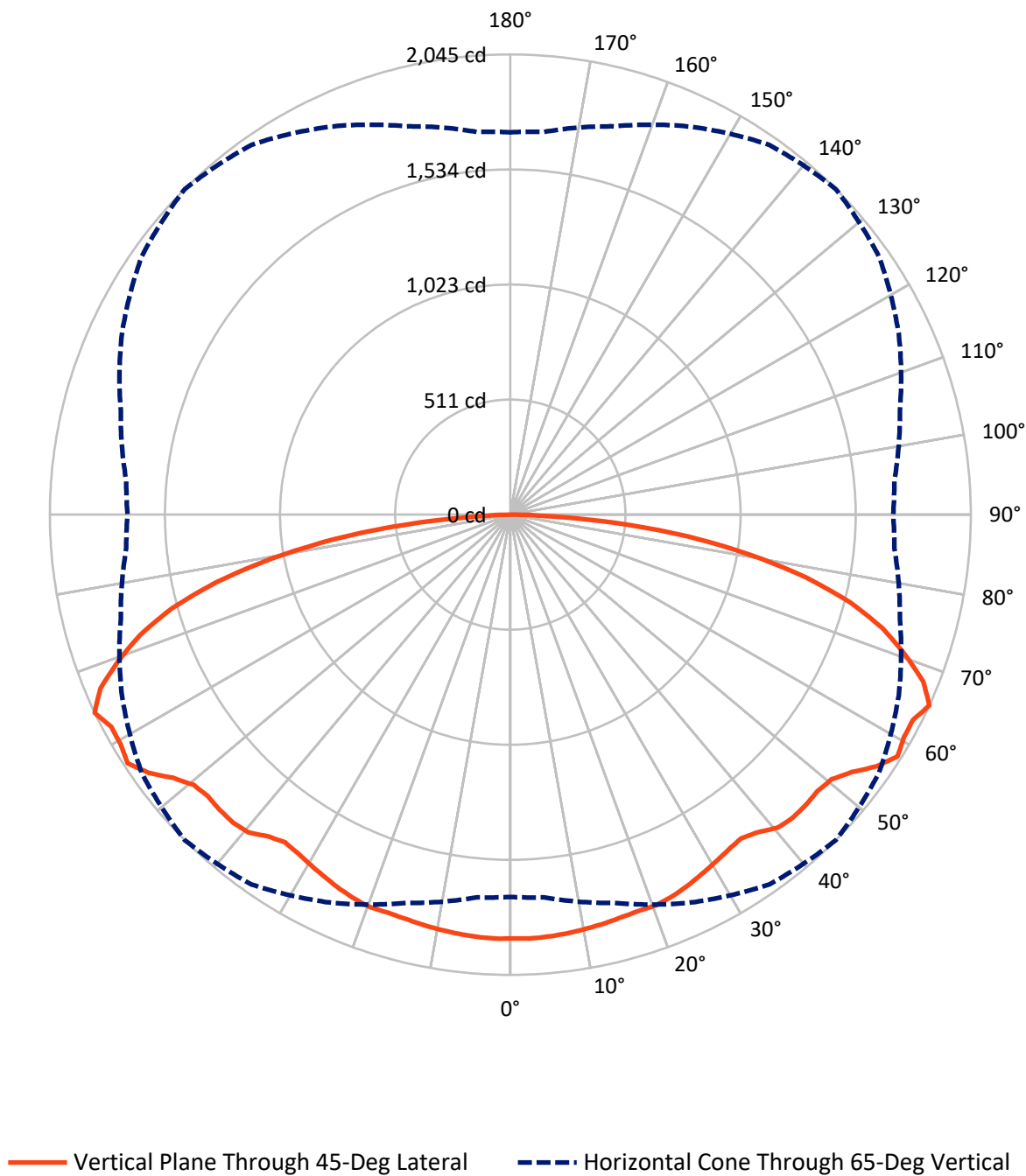


Based on 10 foot mounting height. Maximum calculated value = 18.8 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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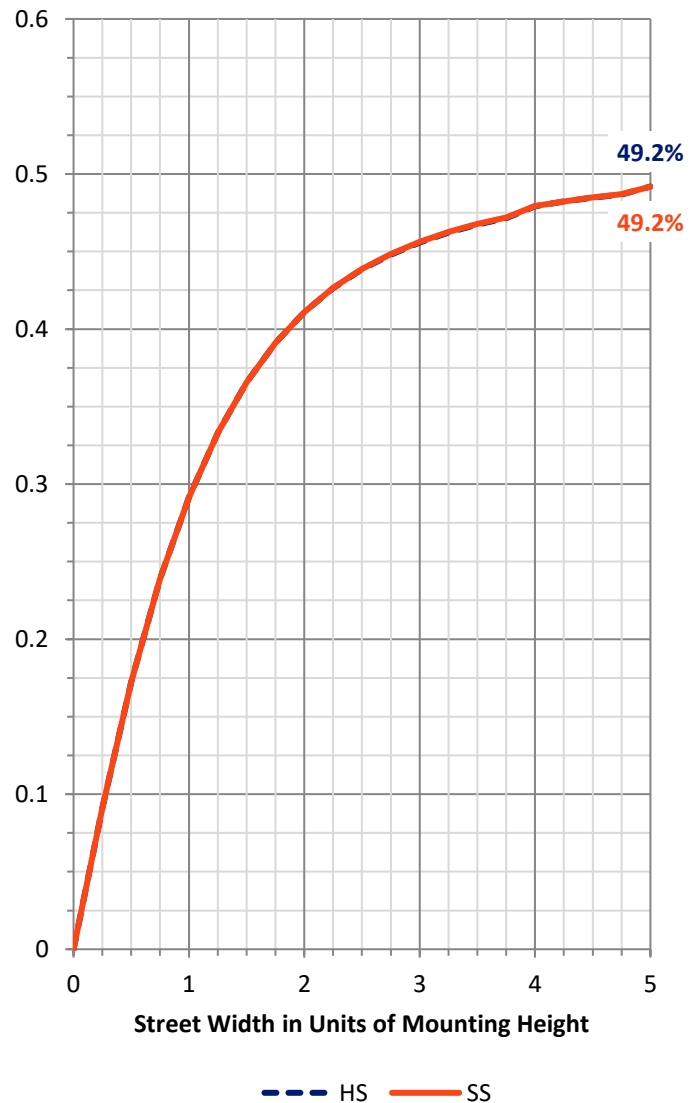
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4720.6	0.0	4720.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4720.6	0.0	4720.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	9441.1	0.0	9441.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.3	1.9
10°-20°	525.9	5.6
20°-30°	841.4	8.9
30°-40°	1111.4	11.8
40°-50°	1389.3	14.7
50°-60°	1668.0	17.7
60°-70°	1823.1	19.3
70°-80°	1448.6	15.3
80°-90°	454.2	4.8
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°	9441.1	100.0
0°-180°	9441.1	100.0

Coefficient of Utilization



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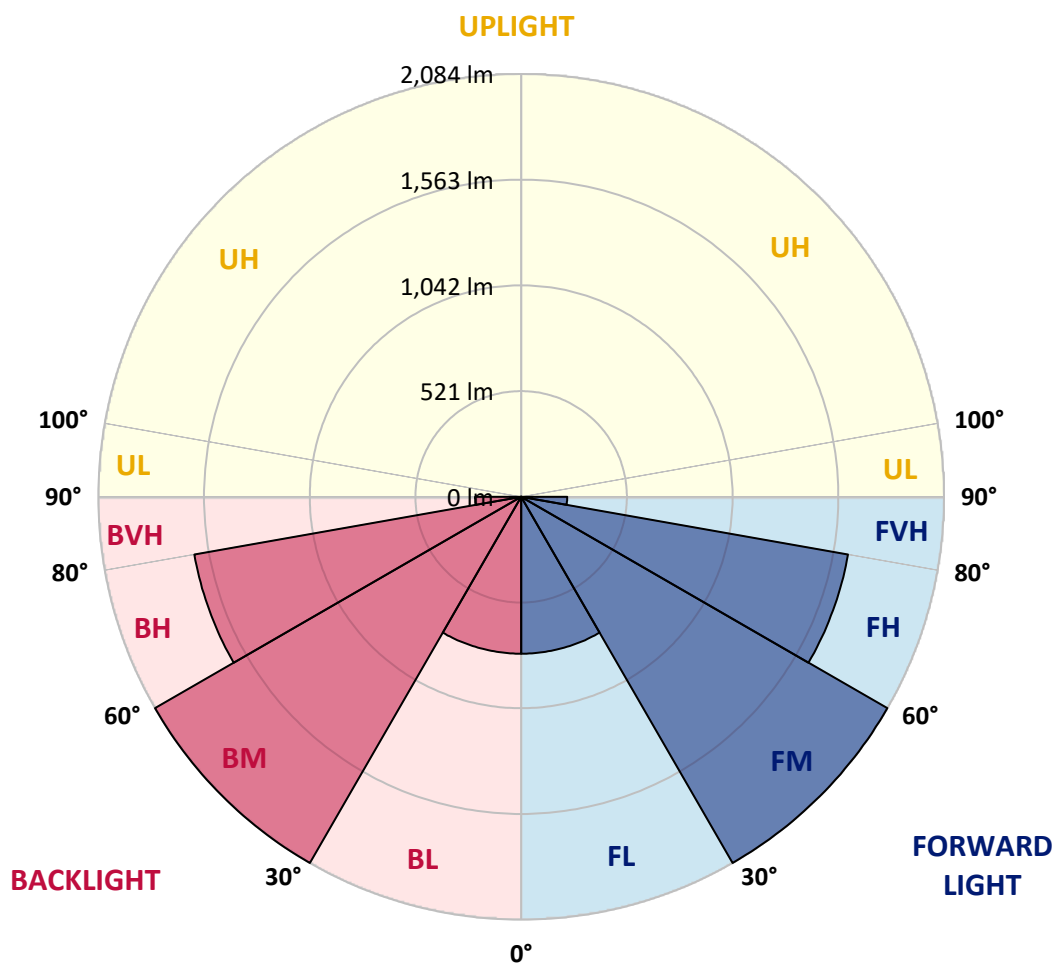
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	773.3	8.2			
FM	(30°-60°)	2084.3	22.1			
FH	(60°-80°)	1635.9	17.3			G1/1800
FVH	(80°-90°)	227.1	2.4			G3/500
BL	(0°-30°)	773.3	8.2	B2/1000		
BM	(30°-60°)	2084.3	22.1	B2/2500		
BH	(60°-80°)	1635.9	17.3	B3/2500		G1/1800
BVH	(80°-90°)	227.1	2.4			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1883.6	1883.6	1883.6	1883.6	1883.6	1883.6	1883.6	1883.6	1883.6	1883.6	1883.6
2.5°	1885.3	1885.3	1885.3	1885.3	1883.6	1885.3	1883.6	1883.6	1885.3	1885.3	1885.3
5°	1882.0	1882.0	1882.0	1882.0	1882.0	1882.0	1882.0	1882.0	1882.0	1882.0	1882.0
7.5°	1877.0	1877.0	1877.0	1877.0	1877.0	1877.0	1877.0	1877.0	1877.0	1877.0	1877.0
10°	1870.4	1872.1	1872.1	1872.1	1870.4	1870.4	1870.4	1872.1	1872.1	1870.4	1870.4
12.5°	1863.8	1863.8	1865.5	1863.8	1863.8	1863.8	1863.8	1863.8	1863.8	1863.8	1862.2
15°	1853.9	1853.9	1855.6	1855.6	1855.6	1855.6	1855.6	1853.9	1853.9	1852.3	1852.3
17.5°	1845.7	1845.7	1849.0	1849.0	1850.6	1850.6	1850.6	1847.3	1847.3	1844.0	1844.0
20°	1844.0	1844.0	1845.7	1849.0	1850.6	1852.3	1850.6	1847.3	1844.0	1840.7	1840.7
22.5°	1832.5	1834.1	1837.4	1839.1	1842.4	1842.4	1842.4	1837.4	1835.8	1832.5	1832.5
25°	1817.6	1816.0	1820.9	1824.2	1827.5	1827.5	1825.9	1822.6	1820.9	1816.0	1816.0
27.5°	1794.6	1796.2	1799.5	1804.4	1809.4	1809.4	1807.7	1804.4	1801.2	1797.9	1796.2
30°	1774.8	1776.4	1779.7	1784.7	1788.0	1792.9	1788.0	1784.7	1779.7	1778.1	1776.4
32.5°	1753.3	1755.0	1759.9	1768.2	1773.1	1776.4	1773.1	1769.8	1761.6	1756.6	1755.0
35°	1738.5	1740.1	1745.1	1756.6	1766.5	1766.5	1766.5	1758.3	1748.4	1740.1	1738.5
37.5°	1740.1	1743.4	1755.0	1771.5	1788.0	1789.6	1788.0	1771.5	1756.6	1743.4	1741.8
40°	1753.3	1756.6	1776.4	1801.2	1822.6	1829.2	1824.2	1801.2	1778.1	1759.9	1755.0
42.5°	1751.7	1756.6	1778.1	1809.4	1830.8	1840.7	1830.8	1809.4	1781.4	1761.6	1755.0
45°	1745.1	1748.4	1771.5	1804.4	1830.8	1840.7	1832.5	1807.7	1776.4	1753.3	1748.4
47.5°	1735.2	1738.5	1756.6	1796.2	1825.9	1835.8	1827.5	1801.2	1761.6	1743.4	1740.1
50°	1722.0	1731.9	1761.6	1802.8	1842.4	1849.0	1844.0	1806.1	1764.9	1738.5	1725.3
52.5°	1735.2	1733.5	1768.2	1842.4	1878.7	1900.1	1883.6	1839.1	1776.4	1741.8	1738.5
55°	1764.9	1778.1	1816.0	1885.3	1944.6	1974.3	1951.2	1890.2	1819.3	1776.4	1768.2
57.5°	1763.2	1779.7	1847.3	1916.6	2007.3	2027.1	2000.7	1924.9	1844.0	1788.0	1766.5
60°	1753.3	1759.9	1811.0	1934.8	1985.9	2009.0	1985.9	1926.5	1824.2	1761.6	1761.6
62.5°	1720.3	1731.9	1812.7	1898.5	1971.0	2007.3	1979.3	1905.1	1811.0	1743.4	1722.0
65°	1698.9	1707.1	1786.3	1901.8	2005.7	2045.3	1999.1	1903.4	1791.3	1712.1	1700.5
67.5°	1631.3	1646.1	1720.3	1845.7	1946.3	1977.6	1959.5	1842.4	1720.3	1647.8	1629.6
70°	1515.8	1524.1	1626.3	1745.1	1837.4	1858.9	1832.5	1756.6	1616.4	1535.6	1510.9
72.5°	1374.0	1385.5	1479.5	1611.5	1700.5	1728.6	1697.2	1616.4	1471.3	1398.7	1375.6
75°	1230.5	1242.0	1303.0	1446.5	1520.8	1560.3	1524.1	1436.6	1306.3	1235.4	1225.5
77.5°	1024.3	1042.4	1136.4	1232.1	1303.0	1344.3	1312.9	1232.1	1129.8	1045.7	1014.4
80°	804.9	818.1	905.5	989.6	1054.0	1080.4	1065.5	989.6	907.2	821.4	806.6
82.5°	564.1	572.3	648.2	715.8	795.0	795.0	778.5	729.0	646.6	572.3	575.6
85°	301.8	311.7	369.5	422.2	471.7	471.7	456.9	425.5	367.8	310.1	303.5
87.5°	61.0	67.6	89.1	97.3	115.5	123.7	112.2	102.3	89.1	70.9	70.9
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)