

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: P200077

Luminaire Tested: **GPC-AF-01-LED-E1-5WQ-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200077
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-AF-01-LED-E1-5WQ-800
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5534.2 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G1

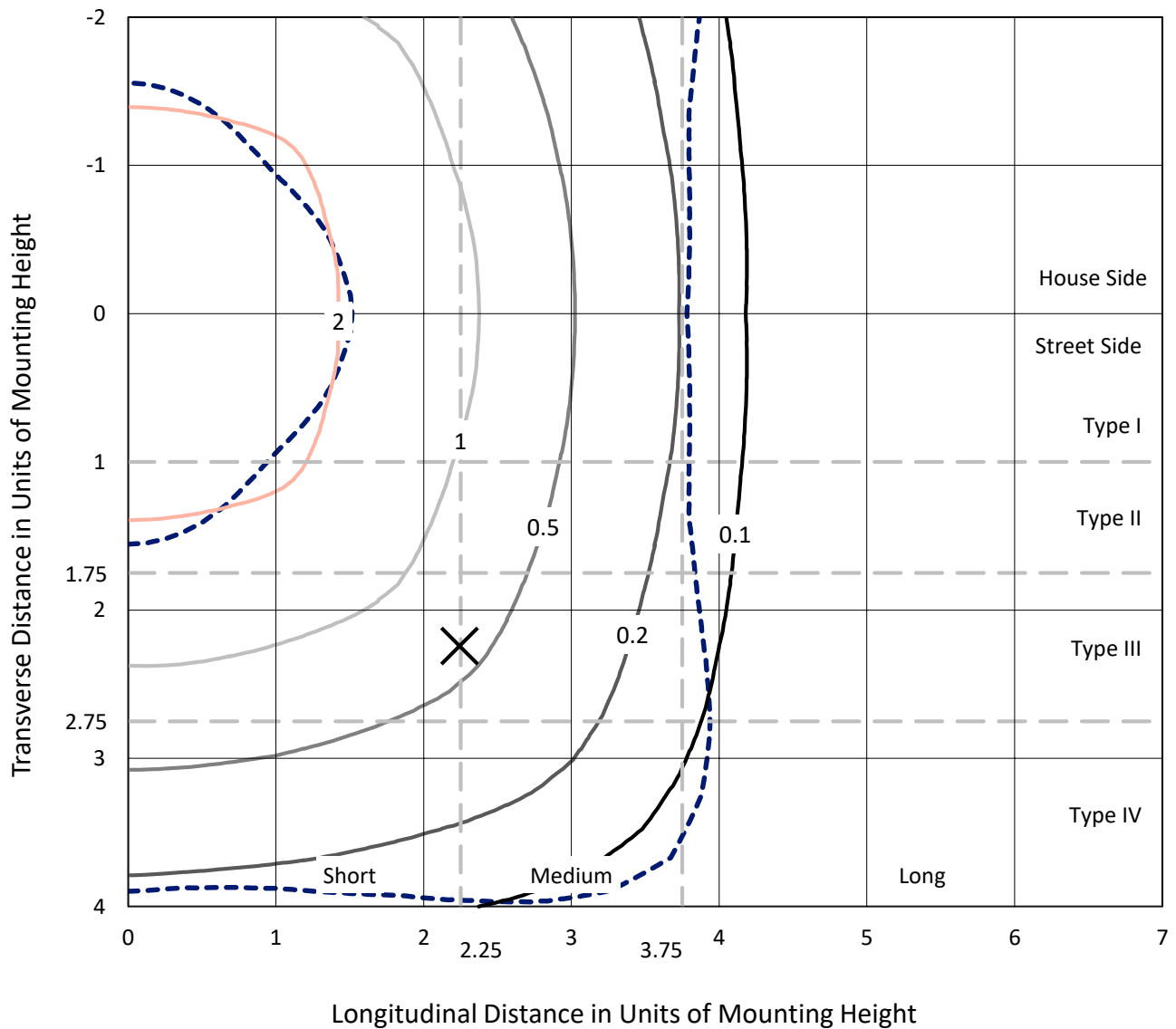
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

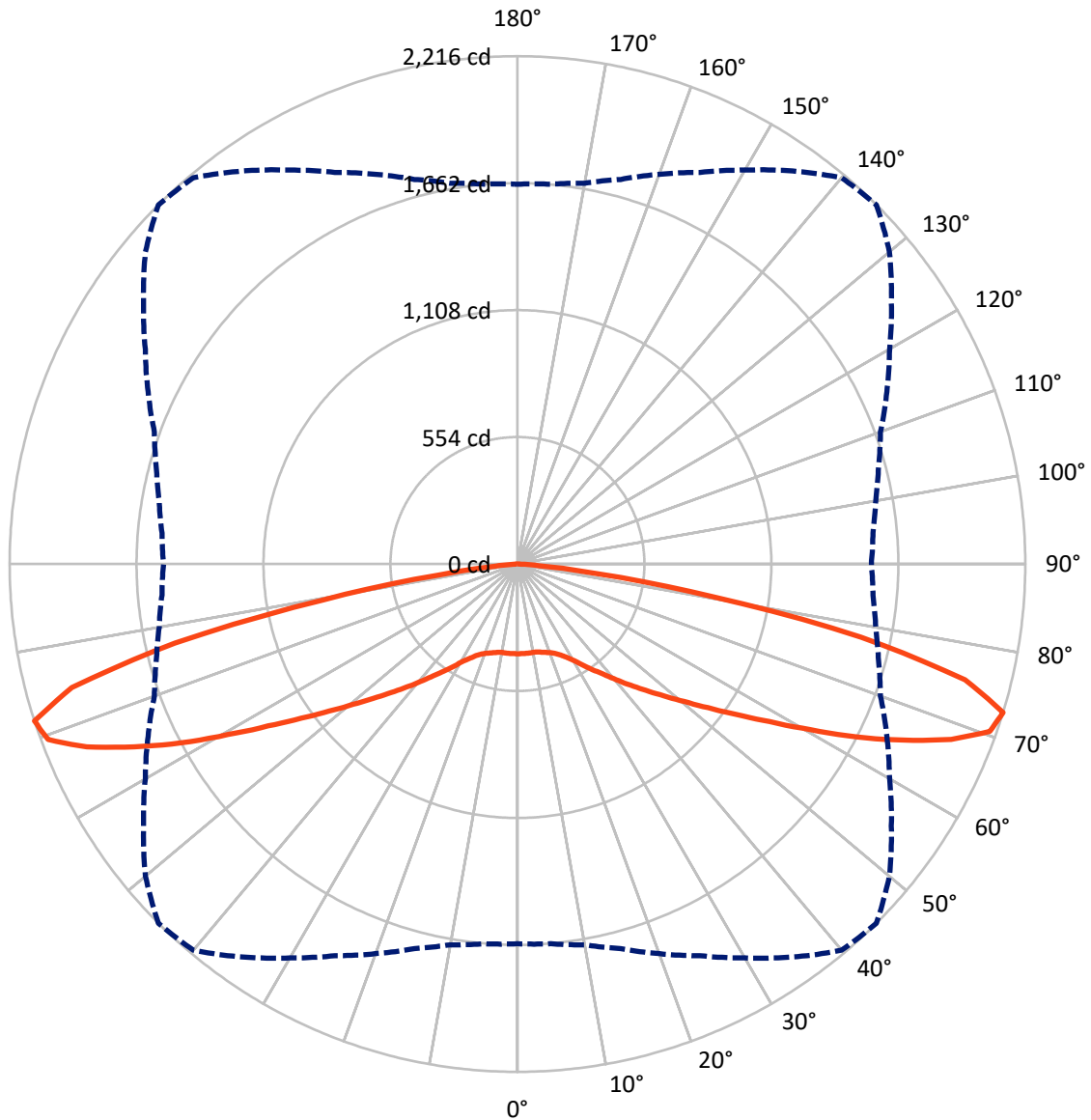
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2767.1	0.0	2767.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2767.1	0.0	2767.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	5534.2	0.0	5534.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.4	0.7
10°-20°	113.7	2.1
20°-30°	207.7	3.8
30°-40°	358.1	6.5
40°-50°	612.2	11.1
50°-60°	992.3	17.9
60°-70°	1646.1	29.7
70°-80°	1449.8	26.2
80°-90°	116.9	2.1
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°	5534.2	100.0
0°-180°	5534.2	100.0



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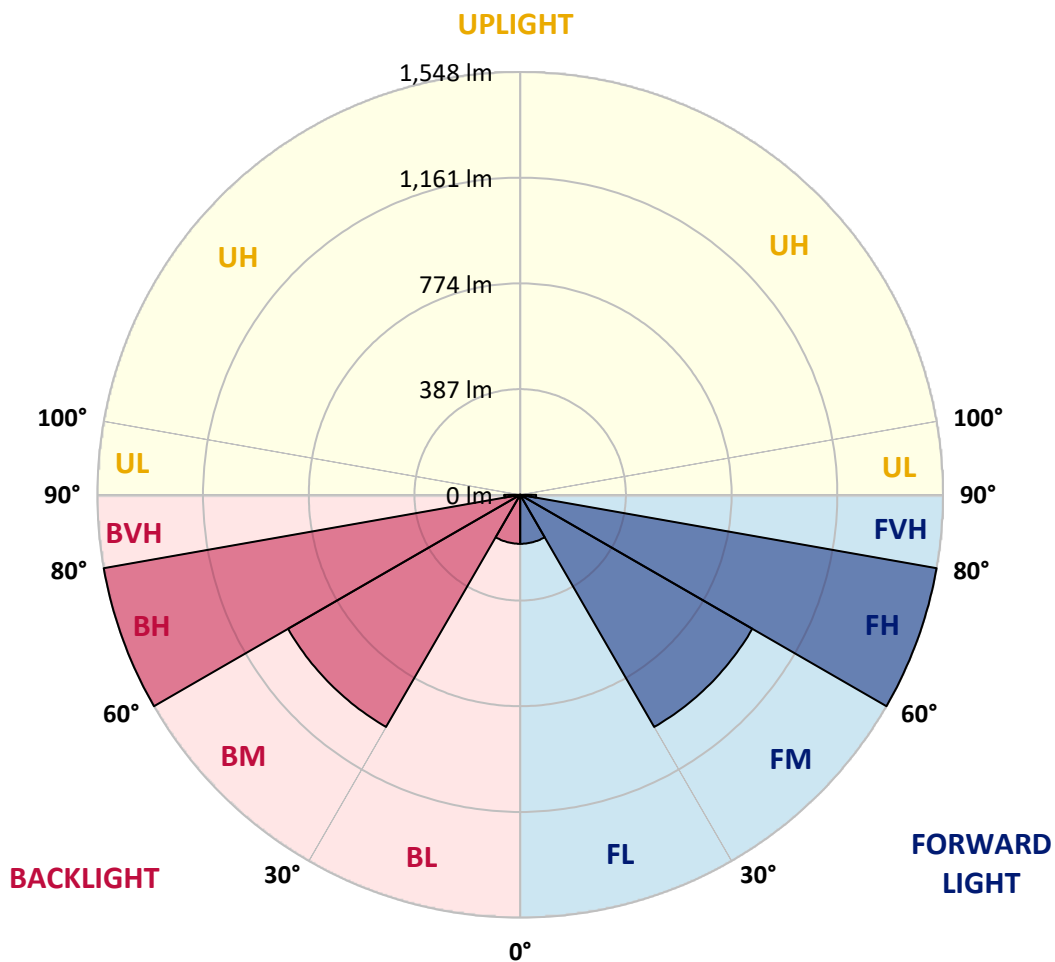
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	179.4	3.2			
FM	(30°-60°)	981.3	17.7			
FH	(60°-80°)	1548.0	28.0			G1/1800
FVH	(80°-90°)	58.5	1.1			G1/100
BL	(0°-30°)	179.4	3.2	B1/500		
BM	(30°-60°)	981.3	17.7	B1/1000		
BH	(60°-80°)	1548.0	28.0	B3/2500		G1/1800
BVH	(80°-90°)	58.5	1.1			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°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	391.9	391.9	391.9	391.9	391.9	391.9	391.9	391.9	391.9	391.9	391.9
2.5°	391.9	392.2	392.4	392.2	392.2	391.9	391.7	391.9	391.7	391.2	391.4
5°	393.2	393.6	393.6	393.2	393.4	393.2	392.7	392.9	392.4	391.7	391.7
7.5°	394.7	395.0	395.0	394.4	394.7	394.1	393.6	393.4	392.9	391.9	391.2
10°	397.0	397.2	397.0	396.5	396.5	395.7	394.4	393.9	392.9	391.4	390.7
12.5°	399.6	399.8	399.6	399.1	398.7	397.5	396.5	395.7	395.0	393.6	392.4
15°	403.0	403.6	403.0	402.0	401.3	400.3	399.8	400.1	400.3	399.3	398.0
17.5°	409.7	409.9	409.2	406.9	405.9	404.9	404.9	405.4	406.1	405.6	404.4
20°	421.9	421.0	419.3	416.5	415.2	413.5	413.3	413.5	413.5	413.3	412.2
22.5°	437.1	436.6	434.2	430.8	428.9	427.9	426.5	425.1	424.9	424.1	423.1
25°	455.3	455.1	452.3	449.3	448.0	446.7	445.5	443.7	442.1	440.4	439.4
27.5°	478.7	477.7	473.6	472.1	470.4	469.5	467.8	465.7	464.5	462.2	460.9
30°	504.3	504.3	501.0	500.5	500.5	498.8	496.7	493.2	490.9	488.6	487.8
32.5°	530.0	530.2	526.9	527.9	528.8	530.0	530.5	529.3	527.7	527.4	525.9
35°	567.0	566.0	562.7	563.4	563.2	563.0	563.0	565.8	566.3	566.8	563.7
37.5°	613.0	613.0	609.7	609.7	608.1	606.6	604.6	606.4	609.2	610.0	607.9
40°	665.5	667.3	663.3	663.0	663.5	658.7	656.4	659.2	660.9	664.0	661.7
42.5°	727.4	726.2	722.1	721.6	718.8	717.3	715.2	717.6	720.4	722.4	723.1
45°	786.9	785.8	781.2	781.2	778.5	777.2	778.3	782.0	783.3	786.1	788.9
47.5°	845.5	844.2	841.2	842.4	842.7	845.0	848.2	851.8	855.4	859.2	860.5
50°	905.4	905.6	902.3	905.4	909.2	915.5	924.4	930.3	937.6	942.4	944.0
52.5°	959.9	961.0	964.5	971.6	979.3	991.6	1006.9	1021.1	1033.3	1041.5	1041.0
55°	1025.4	1026.9	1035.6	1047.8	1060.2	1079.0	1101.6	1126.7	1147.0	1158.7	1151.3
57.5°	1109.2	1112.6	1122.2	1138.6	1157.2	1181.5	1212.5	1250.4	1281.9	1297.5	1285.6
60°	1224.2	1226.2	1237.9	1256.2	1278.5	1308.8	1350.1	1400.8	1445.2	1466.1	1452.4
62.5°	1375.8	1379.6	1389.0	1407.5	1430.3	1464.6	1515.1	1578.5	1633.9	1662.8	1631.8
65°	1556.7	1568.9	1576.8	1595.5	1616.9	1653.2	1706.0	1774.0	1833.3	1852.4	1816.7
67.5°	1735.9	1746.6	1760.3	1781.9	1803.5	1844.3	1893.3	1959.3	2024.5	2041.8	1986.2
70°	1814.3	1820.4	1841.7	1871.2	1912.6	1960.8	2017.4	2091.5	2172.2	2186.5	2115.9
72.5°	1657.2	1663.3	1687.2	1737.2	1809.3	1885.9	1984.6	2093.6	2200.2	2216.1	2118.9
75°	1253.4	1243.5	1278.8	1345.0	1442.3	1549.1	1687.2	1843.3	1997.3	2017.4	1901.4
77.5°	647.7	646.5	673.1	755.3	871.3	993.0	1145.0	1321.4	1472.2	1533.1	1438.7
80°	182.5	184.5	197.2	238.0	305.9	393.6	512.5	677.7	801.1	864.0	811.2
82.5°	71.6	77.1	81.9	89.6	98.5	111.4	148.7	221.4	297.0	354.9	290.6
85°	25.7	27.4	38.9	45.9	46.7	49.2	56.1	65.5	79.0	94.2	77.4
87.5°	9.6	10.6	12.5	20.6	20.4	18.5	22.6	23.6	17.8	16.3	20.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	391.9	391.9	391.9	391.9	391.9	391.9	391.9	391.9
2.5°	390.9	391.2	391.2	391.4	391.7	391.7	392.2	392.2
5°	391.2	391.2	390.7	390.9	390.7	390.7	390.9	390.9
7.5°	390.7	390.4	389.8	389.6	389.1	389.1	389.1	389.1
10°	389.8	389.6	389.1	388.8	388.6	388.6	388.6	388.6
12.5°	391.9	391.2	390.7	390.4	390.4	390.4	390.4	390.4
15°	397.2	395.5	394.1	394.1	394.4	395.0	395.0	395.5
17.5°	403.9	401.8	400.5	399.6	400.1	400.8	401.3	401.8
20°	411.7	410.7	408.9	407.9	407.9	408.9	409.4	409.7
22.5°	422.6	421.9	421.0	419.8	419.8	420.3	421.4	421.4
25°	438.8	438.3	437.8	436.8	436.6	436.6	437.1	437.6
27.5°	459.2	459.4	458.9	458.7	457.9	457.7	458.4	458.2
30°	486.3	487.6	488.9	487.8	486.6	485.8	485.1	484.1
32.5°	523.1	521.6	520.6	518.8	516.5	514.5	513.0	511.2
35°	557.9	555.4	554.3	555.9	555.7	554.3	552.6	551.1
37.5°	600.6	600.1	600.6	603.3	602.8	604.1	600.6	600.3
40°	654.4	654.9	658.4	661.7	663.5	665.2	663.3	661.2
42.5°	716.8	716.6	717.8	722.4	725.5	727.4	723.1	722.6
45°	782.8	781.0	782.0	785.8	788.9	791.2	786.3	786.3
47.5°	855.4	852.3	849.0	853.3	855.1	856.6	852.8	851.6
50°	936.3	930.0	922.9	924.6	924.6	924.1	919.3	919.1
52.5°	1029.3	1017.6	1004.6	999.8	997.1	994.0	985.6	981.5
55°	1136.1	1118.6	1098.3	1085.9	1079.2	1070.9	1056.9	1053.1
57.5°	1261.0	1233.6	1198.6	1183.3	1168.6	1154.9	1139.5	1135.1
60°	1409.0	1368.6	1322.2	1294.0	1278.0	1264.8	1248.8	1248.1
62.5°	1574.0	1510.3	1457.7	1432.3	1420.7	1409.0	1393.8	1395.8
65°	1741.8	1675.3	1626.0	1605.4	1594.5	1584.9	1569.6	1572.0
67.5°	1907.2	1846.0	1792.0	1770.9	1758.8	1746.6	1732.9	1735.1
70°	2026.1	1950.2	1889.2	1842.5	1813.3	1780.3	1759.0	1753.6
72.5°	1992.0	1875.0	1778.3	1685.6	1631.3	1587.2	1557.2	1544.2
75°	1724.0	1564.1	1439.7	1325.9	1262.0	1209.9	1172.2	1148.6
77.5°	1280.3	1100.6	953.6	822.7	719.1	649.6	600.6	568.9
80°	700.8	533.1	389.6	273.8	201.3	167.3	147.7	138.3
82.5°	218.3	140.9	103.8	89.6	83.3	79.7	73.9	64.4
85°	69.6	61.0	56.6	54.1	51.6	44.9	31.0	28.1
87.5°	26.9	27.6	27.4	25.9	26.4	19.0	15.2	13.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)