

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: P200559

Luminaire Tested: **GWC-AF-01-LED-E1-5WQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200559
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: GWC-AF-01-LED-E1-5WQ-8030
Description: GALLEON WALL LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5463 lumens
Efficiency: N/A
Efficacy: 92.6 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): 59
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

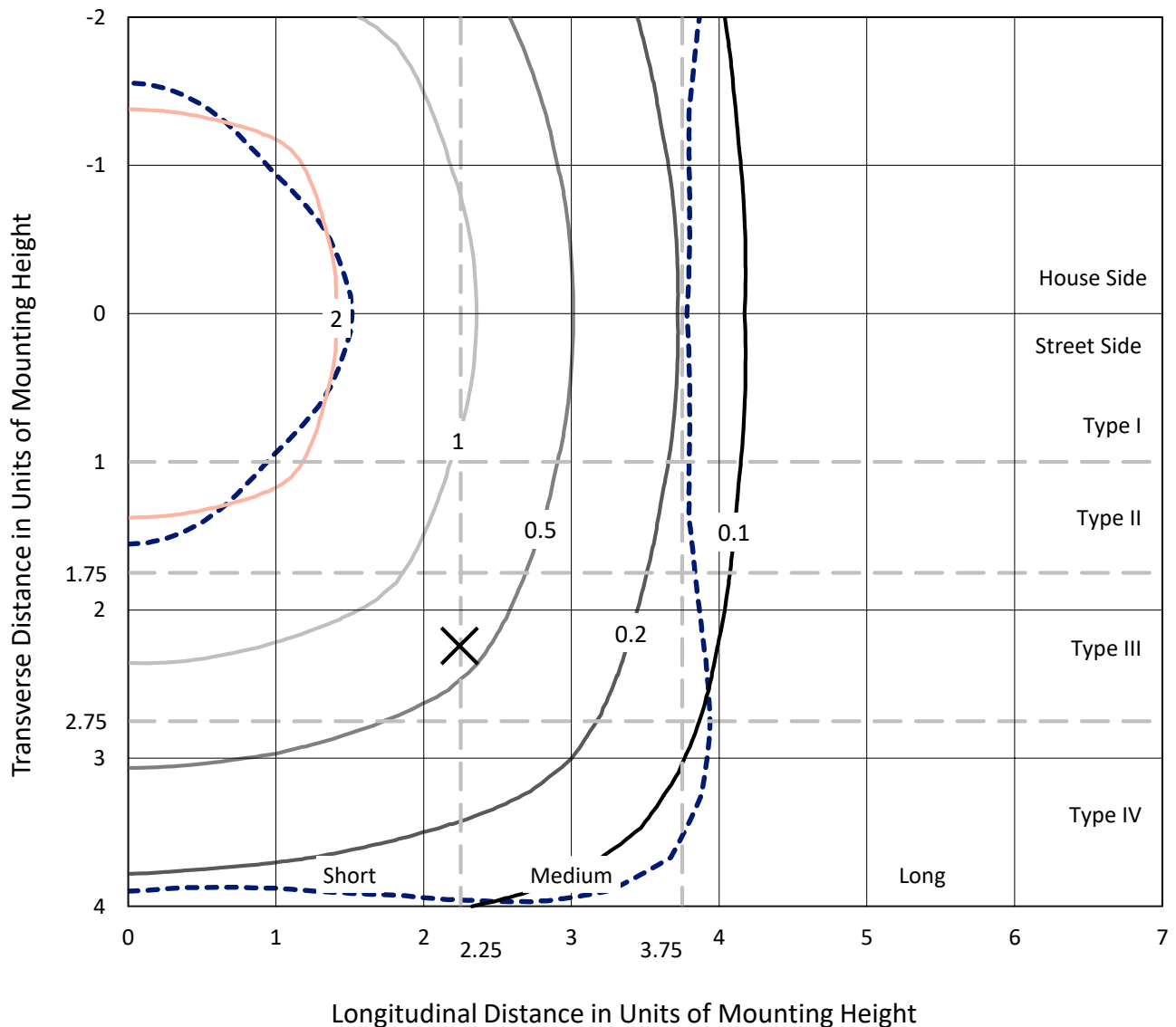


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Iso-Footcandle Lines of Horizontal Illumination

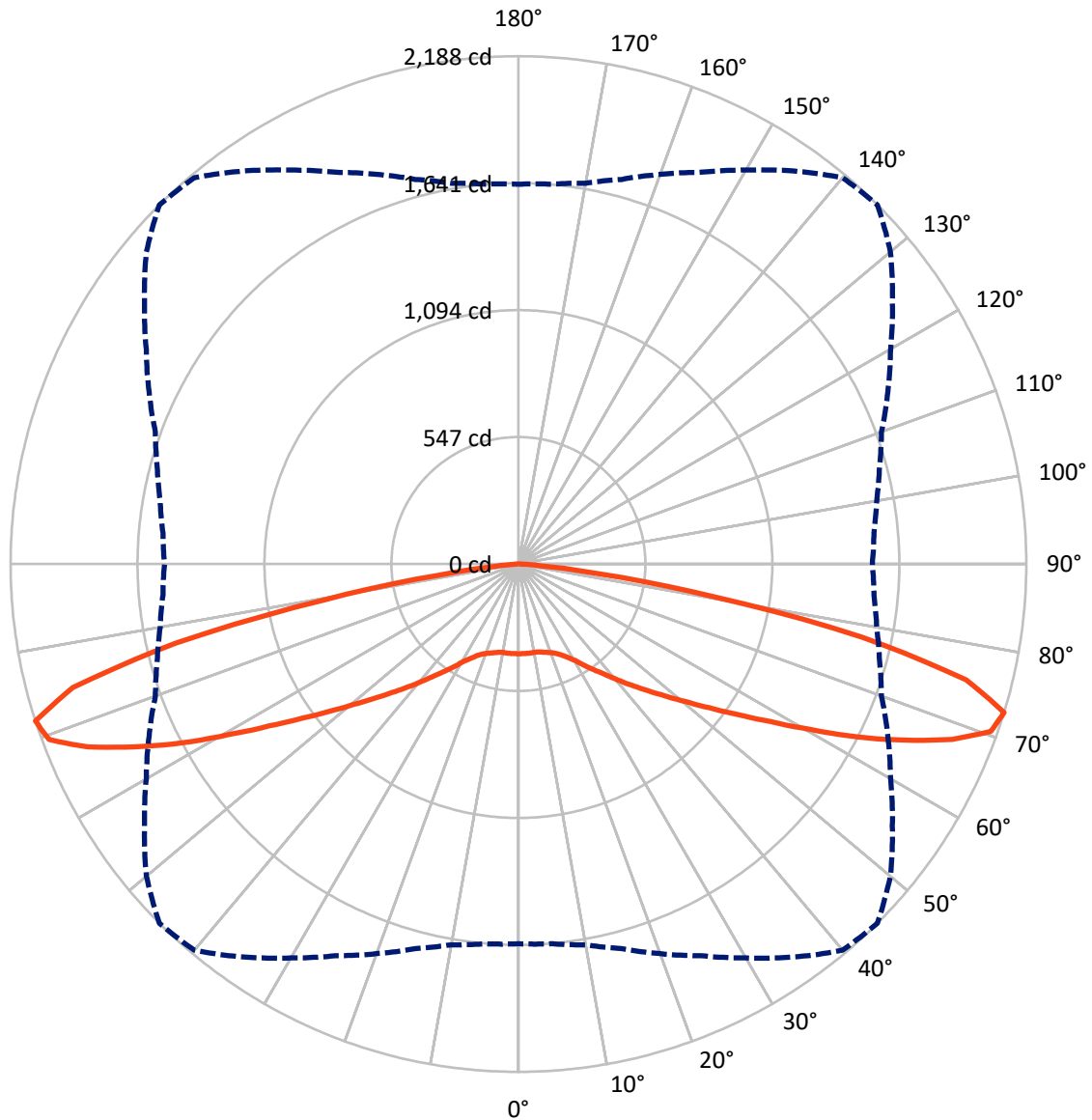
× Max cd
 - - - 1/2 Max cd



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	2731.5	0.0	2731.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2731.5	0.0	2731.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5463.0	0.0	5463.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.9	0.7
10°-20°	112.2	2.1
20°-30°	205.0	3.8
30°-40°	353.5	6.5
40°-50°	604.3	11.1
50°-60°	979.5	17.9
60°-70°	1625.0	29.7
70°-80°	1431.2	26.2
80°-90°	115.4	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°	5463.0	100.0
0°-180°	5463.0	100.0



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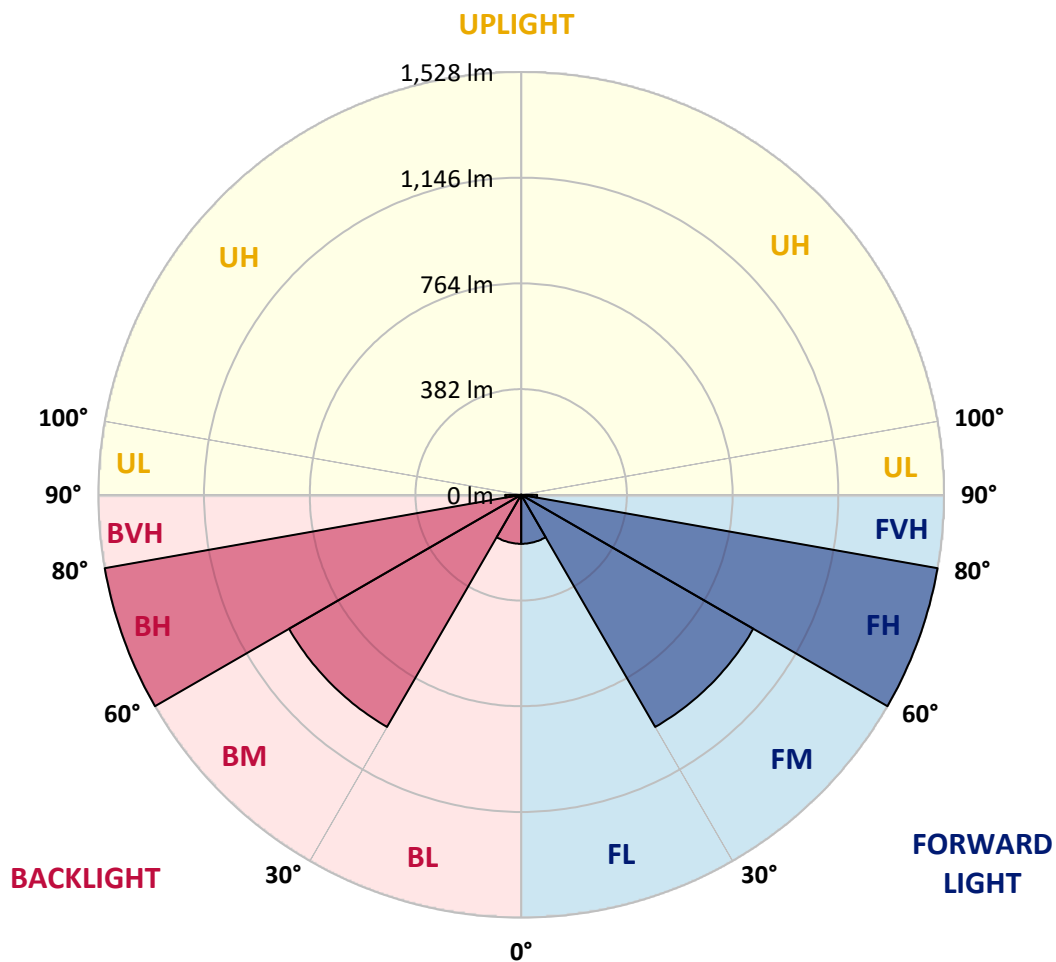
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	177.1	3.2			
FM	(30°-60°)	968.6	17.7			
FH	(60°-80°)	1528.1	28.0			G1/1800
FVH	(80°-90°)	57.7	1.1			G1/100
BL	(0°-30°)	177.1	3.2	B1/500		
BM	(30°-60°)	968.6	17.7	B1/1000		
BH	(60°-80°)	1528.1	28.0	B3/2500		G1/1800
BVH	(80°-90°)	57.7	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°	386.9	386.9	386.9	386.9	386.9	386.9	386.9	386.9	386.9	386.9	386.9
2.5°	386.9	387.1	387.4	387.1	387.1	386.9	386.6	386.9	386.6	386.1	386.4
5°	388.1	388.6	388.6	388.1	388.4	388.1	387.6	387.9	387.4	386.6	386.6
7.5°	389.6	389.9	389.9	389.4	389.6	389.1	388.6	388.4	387.9	386.9	386.1
10°	391.9	392.1	391.9	391.4	391.4	390.6	389.4	388.9	387.9	386.4	385.6
12.5°	394.4	394.6	394.4	393.9	393.6	392.4	391.4	390.6	389.9	388.6	387.4
15°	397.9	398.4	397.9	396.9	396.1	395.1	394.6	394.9	395.1	394.1	392.9
17.5°	404.4	404.7	403.9	401.6	400.6	399.6	399.6	400.1	400.9	400.4	399.1
20°	416.4	415.7	413.9	411.2	409.9	408.2	407.9	408.2	408.2	407.9	406.9
22.5°	431.5	431.0	428.7	425.2	423.4	422.4	420.9	419.7	419.4	418.7	417.7
25°	449.5	449.3	446.5	443.5	442.2	441.0	439.7	438.0	436.5	434.7	433.7
27.5°	472.6	471.6	467.5	466.0	464.3	463.5	461.8	459.8	458.5	456.3	455.0
30°	497.9	497.9	494.6	494.1	494.1	492.4	490.3	486.8	484.6	482.3	481.6
32.5°	523.2	523.4	520.2	521.2	521.9	523.2	523.7	522.4	520.9	520.7	519.2
35°	559.8	558.7	555.5	556.2	556.0	555.7	555.7	558.5	559.0	559.5	556.5
37.5°	605.1	605.1	601.8	601.8	600.3	598.8	596.8	598.6	601.3	602.1	600.1
40°	657.0	658.7	654.7	654.5	655.0	650.2	647.9	650.7	652.5	655.5	653.2
42.5°	718.1	716.9	712.8	712.3	709.6	708.1	706.1	708.3	711.1	713.1	713.8
45°	776.7	775.7	771.2	771.2	768.5	767.2	768.2	772.0	773.2	776.0	778.7
47.5°	834.6	833.4	830.4	831.6	831.9	834.1	837.4	840.9	844.4	848.1	849.4
50°	893.7	894.0	890.7	893.7	897.5	903.8	912.5	918.3	925.6	930.3	931.8
52.5°	947.6	948.6	952.1	959.1	966.7	978.9	994.0	1008.0	1020.0	1028.0	1027.5
55°	1012.3	1013.8	1022.3	1034.3	1046.6	1065.1	1087.4	1112.2	1132.3	1143.8	1136.5
57.5°	1094.9	1098.2	1107.7	1124.0	1142.3	1166.4	1196.9	1234.3	1265.3	1280.9	1269.1
60°	1208.5	1210.5	1222.0	1240.0	1262.1	1291.9	1332.7	1382.8	1426.7	1447.2	1433.7
62.5°	1358.0	1361.8	1371.1	1389.4	1411.9	1445.7	1495.6	1558.2	1612.9	1641.4	1610.9
65°	1536.7	1548.7	1556.5	1575.0	1596.1	1631.9	1684.0	1751.2	1809.8	1828.6	1793.3
67.5°	1713.6	1724.1	1737.6	1758.9	1780.2	1820.6	1868.9	1934.1	1998.5	2015.5	1960.6
70°	1791.0	1797.0	1818.1	1847.1	1888.0	1935.6	1991.5	2064.6	2144.3	2158.3	2088.7
72.5°	1635.9	1641.9	1665.5	1714.8	1786.0	1861.7	1959.1	2066.6	2171.9	2187.6	2091.7
75°	1237.3	1227.5	1262.3	1327.7	1423.7	1529.2	1665.5	1819.6	1971.7	1991.5	1876.9
77.5°	639.4	638.2	664.5	745.7	860.2	980.2	1130.3	1304.4	1453.3	1513.4	1420.2
80°	180.2	182.2	194.7	235.0	301.9	388.6	505.9	669.0	790.8	852.9	800.8
82.5°	70.7	76.2	80.9	88.4	97.2	110.0	146.8	218.5	293.2	350.3	286.9
85°	25.3	27.1	38.3	45.4	46.1	48.6	55.4	64.6	77.9	93.0	76.4
87.5°	9.5	10.5	12.3	20.3	20.0	18.3	22.3	23.3	17.5	16.0	19.8
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°	386.9	386.9	386.9	386.9	386.9	386.9	386.9	386.9
2.5°	385.9	386.1	386.1	386.4	386.6	386.6	387.1	387.1
5°	386.1	386.1	385.6	385.9	385.6	385.6	385.9	385.9
7.5°	385.6	385.4	384.9	384.6	384.1	384.1	384.1	384.1
10°	384.9	384.6	384.1	383.9	383.6	383.6	383.6	383.6
12.5°	386.9	386.1	385.6	385.4	385.4	385.4	385.4	385.4
15°	392.1	390.4	389.1	389.1	389.4	389.9	389.9	390.4
17.5°	398.6	396.6	395.4	394.4	394.9	395.6	396.1	396.6
20°	406.4	405.4	403.7	402.7	402.7	403.7	404.2	404.4
22.5°	417.2	416.4	415.7	414.4	414.4	414.9	415.9	415.9
25°	433.2	432.7	432.2	431.2	431.0	431.0	431.5	432.0
27.5°	453.3	453.5	453.0	452.8	452.0	451.8	452.5	452.3
30°	480.1	481.3	482.6	481.6	480.3	479.6	478.8	477.8
32.5°	516.4	514.9	513.9	512.1	509.9	507.9	506.4	504.6
35°	550.7	548.2	547.2	548.7	548.5	547.2	545.5	544.0
37.5°	592.8	592.3	592.8	595.6	595.1	596.3	592.8	592.6
40°	645.9	646.4	650.0	653.2	655.0	656.7	654.7	652.7
42.5°	707.6	707.3	708.6	713.1	716.1	718.1	713.8	713.3
45°	772.7	771.0	772.0	775.7	778.7	781.0	776.2	776.2
47.5°	844.4	841.4	838.1	842.4	844.1	845.6	841.9	840.6
50°	924.3	918.1	911.0	912.8	912.8	912.3	907.5	907.3
52.5°	1016.0	1004.5	991.7	987.0	984.2	981.2	972.9	968.9
55°	1121.5	1104.2	1084.2	1071.9	1065.4	1057.1	1043.3	1039.6
57.5°	1244.8	1217.7	1183.1	1168.1	1153.6	1140.0	1124.8	1120.5
60°	1390.9	1351.0	1305.2	1277.4	1261.6	1248.5	1232.8	1232.0
62.5°	1553.7	1490.8	1439.0	1413.9	1402.4	1390.9	1375.8	1377.8
65°	1719.3	1653.7	1605.1	1584.8	1574.0	1564.5	1549.5	1551.7
67.5°	1882.7	1822.3	1769.0	1748.2	1736.1	1724.1	1710.6	1712.8
70°	2000.0	1925.1	1864.9	1818.8	1790.0	1757.4	1736.4	1731.1
72.5°	1966.4	1850.9	1755.4	1664.0	1610.4	1566.8	1537.2	1524.4
75°	1701.8	1544.0	1421.2	1308.9	1245.8	1194.4	1157.1	1133.8
77.5°	1263.8	1086.4	941.4	812.1	709.8	641.2	592.8	561.5
80°	691.8	526.2	384.6	270.4	198.7	165.1	145.8	136.6
82.5°	215.5	139.1	102.5	88.4	82.2	78.7	72.9	63.6
85°	68.7	60.1	55.9	53.4	50.9	44.3	30.6	27.8
87.5°	26.6	27.3	27.1	25.6	26.1	18.8	15.0	13.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)