

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: P190879

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190879
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: GLEON-AF-01-LED-E1-5WQ-800
Description: GALLEON AREA AND ROADWAY 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: 5425.7 lumens
Efficiency: N/A
Efficacy: 123.3 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

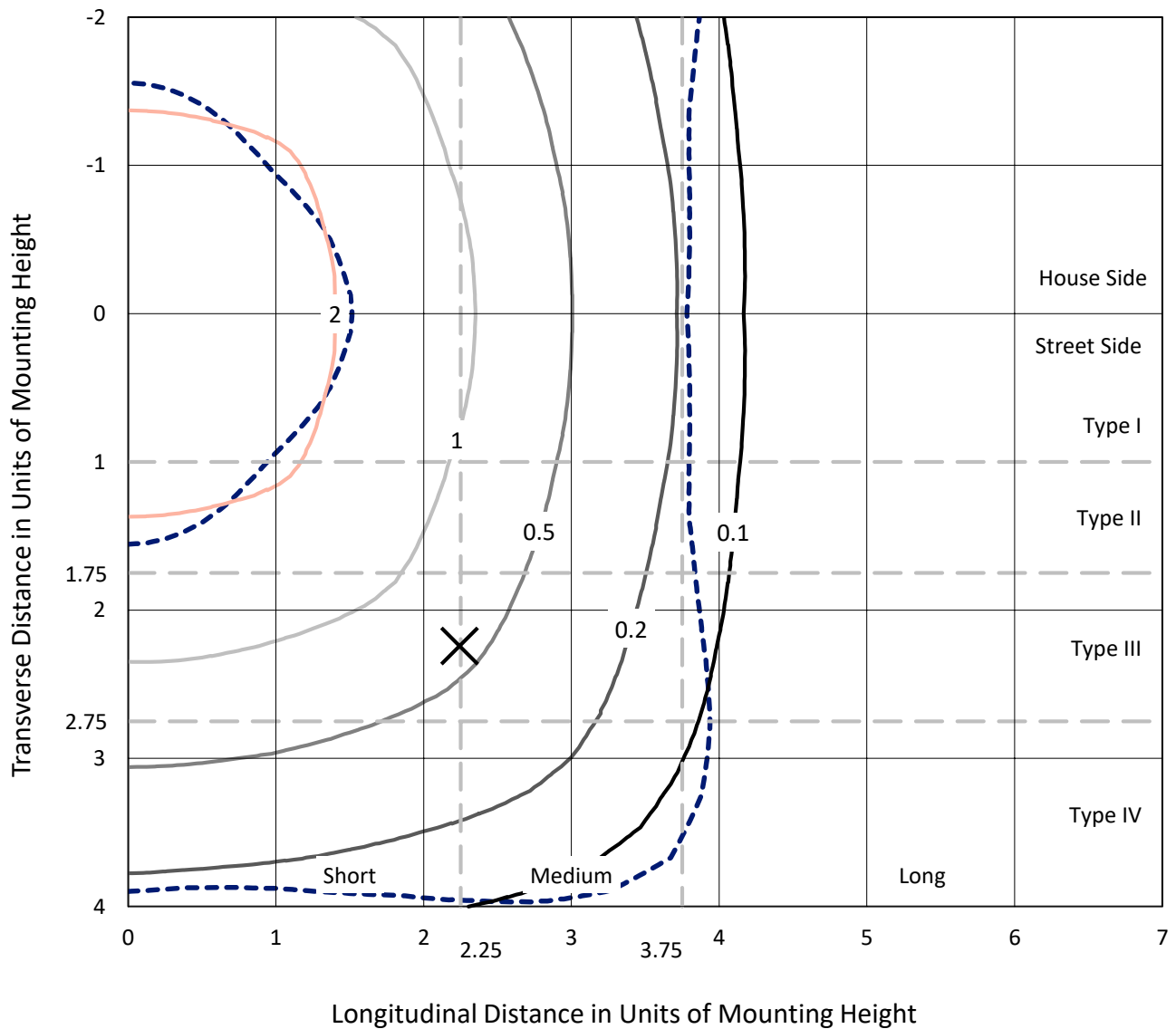
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

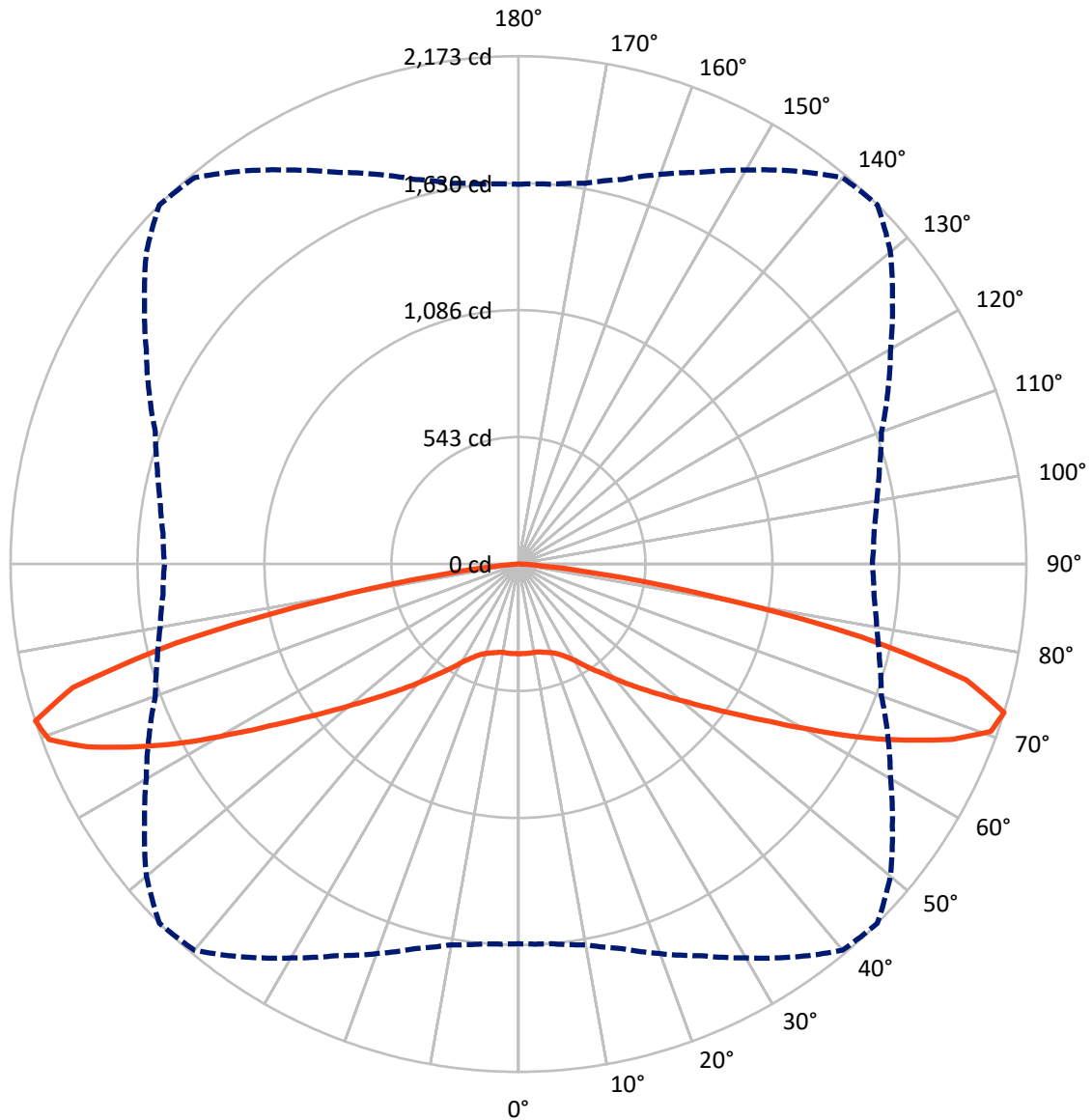
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.8 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	2712.9	0.0	2712.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2712.9	0.0	2712.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	5425.7	0.0	5425.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.7	0.7
10°-20°	111.4	2.1
20°-30°	203.6	3.8
30°-40°	351.1	6.5
40°-50°	600.2	11.1
50°-60°	972.8	17.9
60°-70°	1613.9	29.7
70°-80°	1421.4	26.2
80°-90°	114.6	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°	5425.7	100.0
0°-180°	5425.7	100.0



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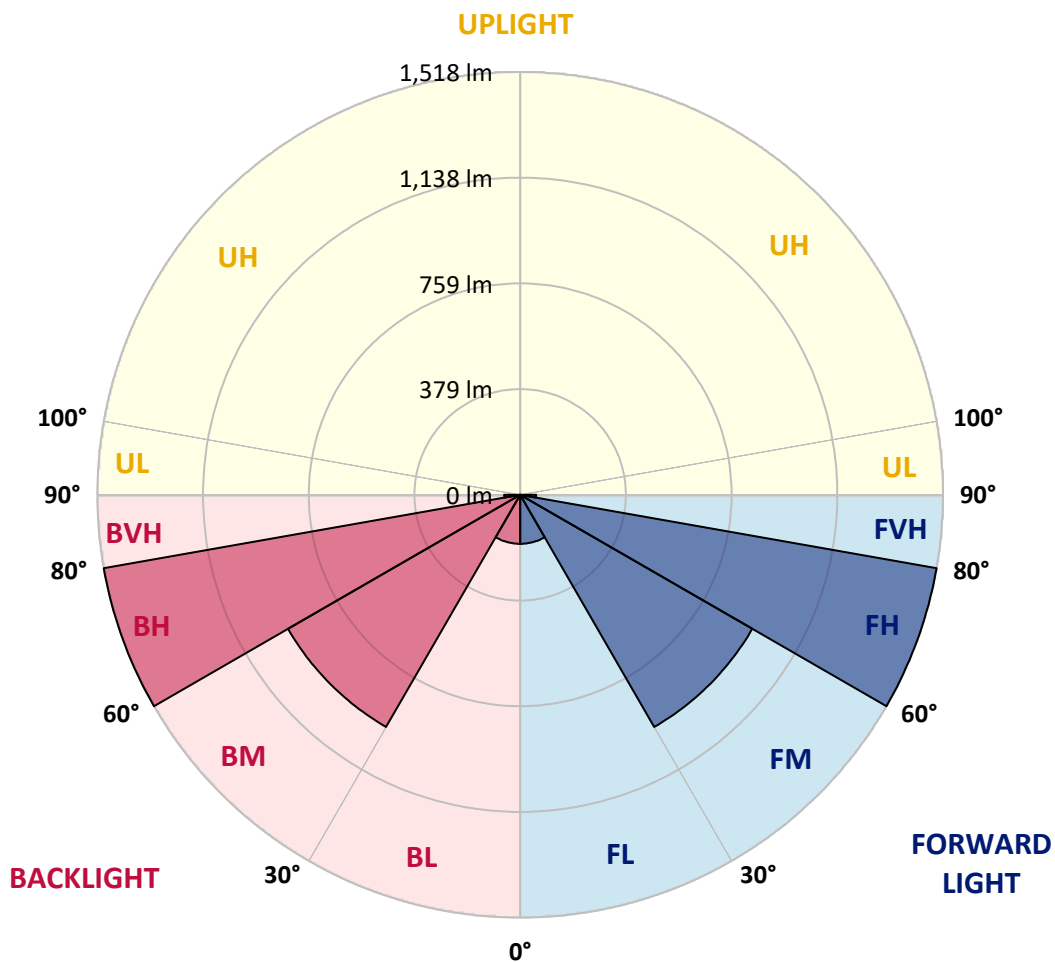
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	175.9	3.2			
FM	(30°-60°)	962.0	17.7			
FH	(60°-80°)	1517.7	28.0			G1/1800
FVH	(80°-90°)	57.3	1.1			G1/100
BL	(0°-30°)	175.9	3.2	B1/500		
BM	(30°-60°)	962.0	17.7	B1/1000		
BH	(60°-80°)	1517.7	28.0	B3/2500		G1/1800
BVH	(80°-90°)	57.3	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°	384.2	384.2	384.2	384.2	384.2	384.2	384.2	384.2	384.2	384.2	384.2
2.5°	384.2	384.4	384.7	384.4	384.4	384.2	384.0	384.2	384.0	383.5	383.7
5°	385.4	386.0	386.0	385.4	385.8	385.4	384.9	385.2	384.7	384.0	384.0
7.5°	387.0	387.2	387.2	386.7	387.0	386.5	386.0	385.8	385.2	384.2	383.5
10°	389.2	389.4	389.2	388.7	388.7	388.0	386.7	386.3	385.2	383.7	383.0
12.5°	391.7	391.9	391.7	391.2	391.0	389.7	388.7	388.0	387.2	386.0	384.7
15°	395.2	395.7	395.2	394.1	393.4	392.4	391.9	392.2	392.4	391.5	390.2
17.5°	401.6	401.9	401.1	399.0	397.9	396.9	396.9	397.4	398.1	397.6	396.4
20°	413.6	412.9	411.1	408.4	407.1	405.4	405.1	405.4	405.4	405.1	404.2
22.5°	428.5	428.0	425.8	422.3	420.5	419.5	418.1	416.9	416.5	415.8	414.8
25°	446.4	446.2	443.4	440.5	439.3	438.0	436.7	435.0	433.5	431.8	430.8
27.5°	469.3	468.3	464.3	462.9	461.1	460.3	458.6	456.6	455.4	453.2	451.9
30°	494.5	494.5	491.2	490.7	490.7	489.0	487.0	483.5	481.3	479.0	478.3
32.5°	519.6	519.9	516.6	517.6	518.3	519.6	520.1	518.8	517.4	517.1	515.7
35°	556.0	555.0	551.7	552.5	552.2	552.0	552.0	554.6	555.2	555.7	552.7
37.5°	601.0	601.0	597.7	597.7	596.3	594.7	592.8	594.5	597.2	598.0	596.0
40°	652.4	654.3	650.3	650.0	650.5	645.8	643.5	646.3	648.0	651.0	648.8
42.5°	713.2	712.0	708.0	707.5	704.7	703.3	701.2	703.5	706.2	708.2	709.0
45°	771.4	770.5	766.0	766.0	763.2	762.0	763.0	766.7	767.9	770.7	773.5
47.5°	828.9	827.7	824.7	825.9	826.1	828.4	831.7	835.1	838.6	842.4	843.6
50°	887.6	887.9	884.6	887.6	891.4	897.6	906.3	912.1	919.2	924.0	925.5
52.5°	941.1	942.1	945.6	952.6	960.0	972.2	987.1	1001.2	1013.0	1021.0	1020.5
55°	1005.4	1006.9	1015.3	1027.2	1039.4	1057.8	1080.0	1104.7	1124.5	1136.0	1128.8
57.5°	1087.5	1090.7	1100.2	1116.3	1134.6	1158.4	1188.8	1225.8	1256.7	1272.1	1260.5
60°	1200.2	1202.2	1213.6	1231.5	1253.4	1283.1	1323.6	1373.4	1417.0	1437.3	1423.9
62.5°	1348.8	1352.5	1361.8	1379.9	1402.3	1435.9	1485.4	1547.6	1601.8	1630.2	1599.9
65°	1526.2	1538.1	1545.9	1564.3	1585.2	1620.8	1672.5	1739.2	1797.4	1816.1	1781.1
67.5°	1701.9	1712.3	1725.8	1746.9	1768.1	1808.2	1856.1	1920.9	1984.8	2001.7	1947.3
70°	1778.8	1784.7	1805.7	1834.6	1875.1	1922.3	1977.9	2050.5	2129.7	2143.6	2074.4
72.5°	1624.8	1630.7	1654.1	1703.1	1773.8	1849.0	1945.8	2052.6	2157.0	2172.7	2077.4
75°	1228.9	1219.2	1253.7	1318.7	1413.9	1518.8	1654.1	1807.1	1958.2	1977.9	1864.1
77.5°	635.0	633.8	659.9	740.6	854.3	973.5	1122.6	1295.6	1443.4	1503.0	1410.4
80°	178.9	181.0	193.3	233.4	299.8	386.0	502.5	664.4	785.4	847.1	795.3
82.5°	70.2	75.7	80.4	87.9	96.6	109.3	145.9	217.0	291.1	347.9	284.9
85°	25.2	26.9	38.1	45.0	45.8	48.3	55.0	64.2	77.4	92.4	75.9
87.5°	9.4	10.4	12.2	20.2	19.9	18.2	22.2	23.1	17.4	16.0	19.6
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°	384.2	384.2	384.2	384.2	384.2	384.2	384.2	384.2
2.5°	383.2	383.5	383.5	383.7	384.0	384.0	384.4	384.4
5°	383.5	383.5	383.0	383.2	383.0	383.0	383.2	383.2
7.5°	383.0	382.7	382.3	382.0	381.5	381.5	381.5	381.5
10°	382.3	382.0	381.5	381.3	380.9	380.9	380.9	380.9
12.5°	384.2	383.5	383.0	382.7	382.7	382.7	382.7	382.7
15°	389.4	387.7	386.5	386.5	386.7	387.2	387.2	387.7
17.5°	395.9	393.9	392.7	391.7	392.2	392.9	393.4	393.9
20°	403.7	402.6	400.9	399.9	399.9	400.9	401.4	401.6
22.5°	414.3	413.6	412.9	411.6	411.6	412.1	413.1	413.1
25°	430.3	429.7	429.2	428.3	428.0	428.0	428.5	429.0
27.5°	450.2	450.4	449.9	449.7	449.0	448.7	449.4	449.2
30°	476.8	478.0	479.3	478.3	477.0	476.3	475.6	474.5
32.5°	512.9	511.4	510.4	508.6	506.5	504.4	502.9	501.1
35°	547.0	544.5	543.5	545.0	544.7	543.5	541.8	540.2
37.5°	588.8	588.3	588.8	591.5	591.1	592.3	588.8	588.5
40°	641.5	642.0	645.5	648.8	650.5	652.2	650.3	648.2
42.5°	702.8	702.5	703.8	708.2	711.3	713.2	709.0	708.5
45°	767.4	765.7	766.7	770.5	773.5	775.7	770.9	770.9
47.5°	838.6	835.6	832.4	836.7	838.4	839.8	836.2	834.9
50°	918.0	911.8	904.8	906.5	906.5	906.0	901.3	901.1
52.5°	1009.1	997.7	985.0	980.2	977.5	974.5	966.3	962.3
55°	1113.9	1096.7	1076.8	1064.6	1058.1	1049.9	1036.2	1032.5
57.5°	1236.3	1209.4	1175.1	1160.1	1145.7	1132.3	1117.1	1112.9
60°	1381.4	1341.8	1296.3	1268.7	1253.0	1240.0	1224.4	1223.6
62.5°	1543.1	1480.6	1429.2	1404.3	1392.8	1381.4	1366.5	1368.4
65°	1707.6	1642.4	1594.2	1574.0	1563.3	1553.9	1538.9	1541.2
67.5°	1869.9	1809.9	1756.9	1736.3	1724.3	1712.3	1698.9	1701.2
70°	1986.4	1911.9	1852.2	1806.4	1777.8	1745.5	1724.5	1719.3
72.5°	1953.0	1838.2	1743.4	1652.6	1599.4	1556.1	1526.7	1514.0
75°	1690.2	1533.4	1411.5	1300.0	1237.3	1186.3	1149.2	1126.1
77.5°	1255.2	1079.0	935.0	806.5	705.0	636.8	588.8	557.7
80°	687.1	522.6	382.0	268.5	197.3	164.0	144.8	135.6
82.5°	214.0	138.1	101.8	87.9	81.6	78.2	72.4	63.2
85°	68.2	59.7	55.4	53.0	50.5	44.1	30.4	27.6
87.5°	26.4	27.1	26.9	25.4	25.9	18.6	14.9	13.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)