

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: STREETWORKS

Report Number: P200237

Luminaire Tested: **GAP-AF-01-LED-U-5WQ-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200237
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: STREETWORKS
Catalog Number: GAP-AF-01-LED-U-5WQ-7050-800
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 5000K, 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: 5410 lumens
Efficiency: N/A
Efficacy: 123.0 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: 28.75 FT

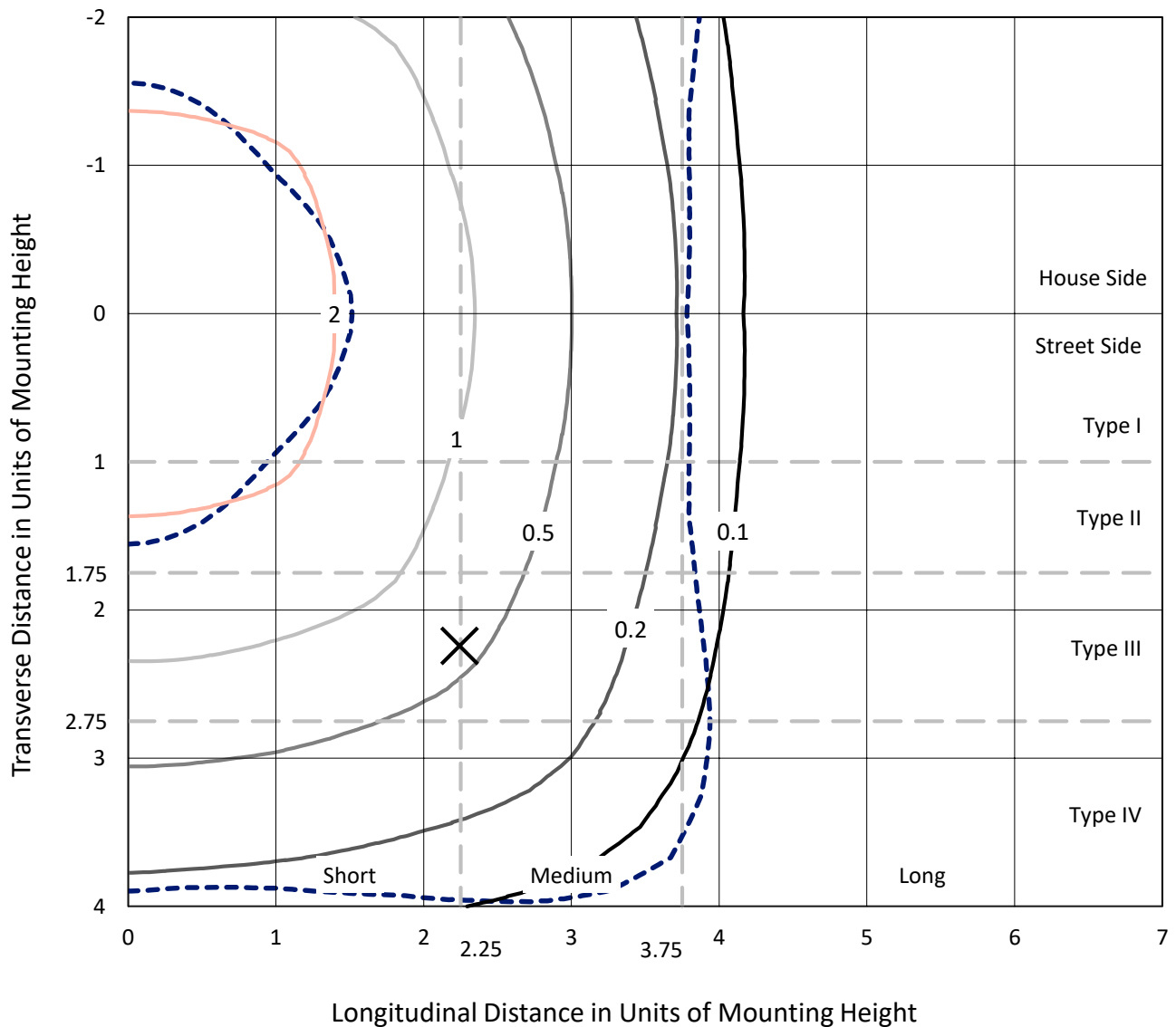


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

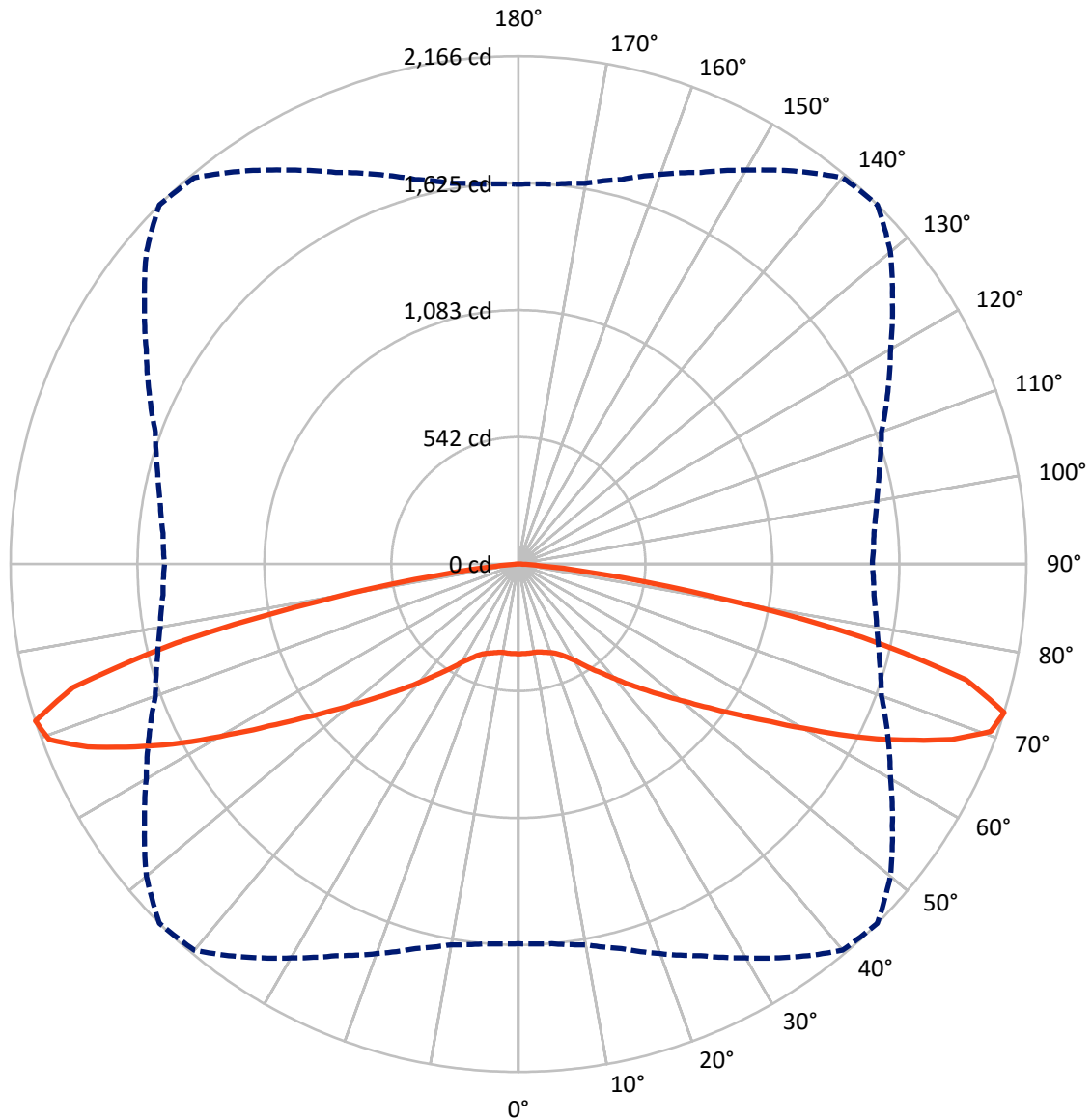


Based on 10 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - Semi-Cutoff

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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	2705.0	0.0	2705.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2705.0	0.0	2705.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5410.0	0.0	5410.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.6	0.7
10°-20°	111.1	2.1
20°-30°	203.0	3.8
30°-40°	350.1	6.5
40°-50°	598.4	11.1
50°-60°	970.0	17.9
60°-70°	1609.2	29.7
70°-80°	1417.3	26.2
80°-90°	114.3	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°	5410.0	100.0
0°-180°	5410.0	100.0



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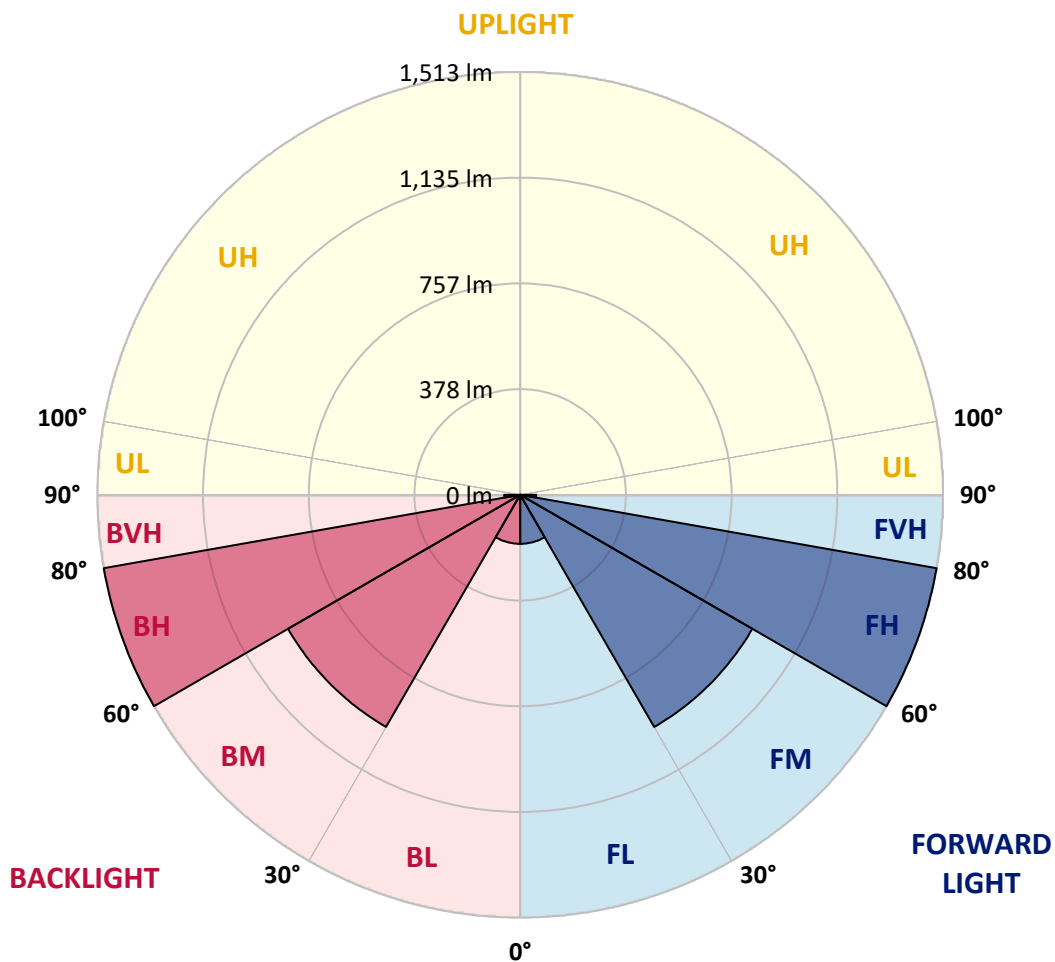
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	175.4	3.2			
FM	(30°-60°)	959.2	17.7			
FH	(60°-80°)	1513.3	28.0			G1/1800
FVH	(80°-90°)	57.1	1.1			G1/100
BL	(0°-30°)	175.4	3.2	B1/500		
BM	(30°-60°)	959.2	17.7	B1/1000		
BH	(60°-80°)	1513.3	28.0	B3/2500		G1/1800
BVH	(80°-90°)	57.1	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°	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1
2.5°	383.1	383.4	383.6	383.4	383.4	383.1	382.9	383.1	382.9	382.4	382.6
5°	384.4	384.8	384.8	384.4	384.6	384.4	383.9	384.1	383.6	382.9	382.9
7.5°	385.8	386.1	386.1	385.6	385.8	385.3	384.8	384.6	384.1	383.1	382.4
10°	388.1	388.3	388.1	387.6	387.6	386.8	385.6	385.1	384.1	382.6	381.9
12.5°	390.6	390.8	390.6	390.1	389.8	388.6	387.6	386.8	386.1	384.8	383.6
15°	394.0	394.5	394.0	393.0	392.3	391.3	390.8	391.1	391.3	390.3	389.1
17.5°	400.5	400.7	400.0	397.8	396.8	395.8	395.8	396.3	397.0	396.5	395.3
20°	412.4	411.6	409.9	407.2	405.9	404.2	404.0	404.2	404.2	404.0	403.0
22.5°	427.3	426.8	424.5	421.1	419.3	418.3	416.9	415.6	415.4	414.6	413.6
25°	445.1	444.9	442.2	439.2	437.9	436.7	435.5	433.7	432.2	430.5	429.5
27.5°	468.0	467.0	463.0	461.5	459.8	459.0	457.3	455.3	454.1	451.8	450.6
30°	493.0	493.0	489.8	489.3	489.3	487.6	485.6	482.1	479.9	477.6	476.9
32.5°	518.1	518.3	515.1	516.1	516.9	518.1	518.6	517.4	515.9	515.6	514.1
35°	554.3	553.3	550.1	550.8	550.6	550.4	550.4	553.1	553.6	554.1	551.1
37.5°	599.2	599.2	596.0	596.0	594.5	593.0	591.0	592.8	595.5	596.3	594.3
40°	650.6	652.3	648.4	648.1	648.6	643.9	641.7	644.4	646.1	649.1	646.9
42.5°	711.1	709.9	705.9	705.4	702.7	701.2	699.2	701.5	704.2	706.2	706.9
45°	769.2	768.2	763.7	763.7	761.0	759.8	760.8	764.5	765.7	768.5	771.2
47.5°	826.5	825.3	822.3	823.5	823.8	826.0	829.2	832.7	836.2	839.9	841.2
50°	885.1	885.3	882.1	885.1	888.8	895.0	903.7	909.4	916.6	921.3	922.8
52.5°	938.4	939.4	942.9	949.8	957.3	969.4	984.3	998.2	1010.1	1018.1	1017.6
55°	1002.4	1003.9	1012.4	1024.3	1036.4	1054.8	1076.9	1101.4	1121.3	1132.7	1125.5
57.5°	1084.3	1087.6	1097.0	1113.1	1131.2	1155.0	1185.3	1222.3	1253.1	1268.4	1256.8
60°	1196.7	1198.7	1210.1	1228.0	1249.8	1279.4	1319.8	1369.4	1412.8	1433.2	1419.8
62.5°	1344.9	1348.6	1357.8	1375.9	1398.2	1431.7	1481.1	1543.1	1597.2	1625.5	1595.2
65°	1521.8	1533.7	1541.4	1559.7	1580.6	1616.1	1667.7	1734.2	1792.2	1810.8	1775.9
67.5°	1697.0	1707.4	1720.8	1741.9	1763.0	1802.9	1850.8	1915.3	1979.1	1996.0	1941.6
70°	1773.6	1779.6	1800.4	1829.2	1869.7	1916.8	1972.1	2044.6	2123.5	2137.4	2068.4
72.5°	1620.0	1626.0	1649.3	1698.2	1768.7	1843.6	1940.1	2046.6	2150.8	2166.4	2071.4
75°	1225.3	1215.6	1250.1	1314.8	1409.9	1514.3	1649.3	1801.9	1952.5	1972.1	1858.7
77.5°	633.2	632.0	658.0	738.4	851.8	970.7	1119.3	1291.8	1439.2	1498.7	1406.4
80°	178.4	180.4	192.8	232.7	299.0	384.8	501.0	662.5	783.1	844.6	793.0
82.5°	70.0	75.4	80.1	87.6	96.3	108.9	145.4	216.4	290.3	346.9	284.1
85°	25.1	26.8	38.0	44.9	45.7	48.1	54.8	64.0	77.2	92.1	75.7
87.5°	9.4	10.4	12.2	20.1	19.9	18.1	22.1	23.1	17.4	15.9	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°	383.1	383.1	383.1	383.1	383.1	383.1	383.1	383.1
2.5°	382.1	382.4	382.4	382.6	382.9	382.9	383.4	383.4
5°	382.4	382.4	381.9	382.1	381.9	381.9	382.1	382.1
7.5°	381.9	381.6	381.1	380.9	380.4	380.4	380.4	380.4
10°	381.1	380.9	380.4	380.1	379.9	379.9	379.9	379.9
12.5°	383.1	382.4	381.9	381.6	381.6	381.6	381.6	381.6
15°	388.3	386.6	385.3	385.3	385.6	386.1	386.1	386.6
17.5°	394.8	392.8	391.5	390.6	391.1	391.8	392.3	392.8
20°	402.5	401.5	399.7	398.7	398.7	399.7	400.2	400.5
22.5°	413.1	412.4	411.6	410.4	410.4	410.9	411.9	411.9
25°	429.0	428.5	428.0	427.0	426.8	426.8	427.3	427.8
27.5°	448.9	449.1	448.6	448.4	447.6	447.4	448.1	447.9
30°	475.4	476.7	477.9	476.9	475.7	474.9	474.2	473.2
32.5°	511.4	509.9	508.9	507.2	504.9	503.0	501.5	499.7
35°	545.4	542.9	541.9	543.4	543.2	541.9	540.2	538.7
37.5°	587.1	586.6	587.1	589.8	589.3	590.5	587.1	586.8
40°	639.7	640.2	643.6	646.9	648.6	650.3	648.4	646.4
42.5°	700.7	700.5	701.7	706.2	709.2	711.1	706.9	706.4
45°	765.2	763.5	764.5	768.2	771.2	773.4	768.7	768.7
47.5°	836.2	833.2	830.0	834.2	835.9	837.4	833.7	832.5
50°	915.3	909.1	902.2	903.9	903.9	903.4	898.7	898.5
52.5°	1006.2	994.8	982.1	977.4	974.7	971.7	963.5	959.5
55°	1110.6	1093.5	1073.7	1061.5	1055.0	1046.9	1033.2	1029.5
57.5°	1232.7	1205.9	1171.7	1156.8	1142.4	1129.0	1113.9	1109.6
60°	1377.4	1337.9	1292.5	1265.0	1249.3	1236.4	1220.8	1220.1
62.5°	1538.7	1476.4	1425.0	1400.2	1388.8	1377.4	1362.5	1364.5
65°	1702.7	1637.7	1589.5	1569.4	1558.7	1549.3	1534.4	1536.7
67.5°	1864.4	1804.6	1751.8	1731.2	1719.3	1707.4	1694.0	1696.2
70°	1980.6	1906.4	1846.8	1801.2	1772.6	1740.4	1719.5	1714.3
72.5°	1947.3	1832.9	1738.4	1647.8	1594.7	1551.6	1522.3	1509.6
75°	1685.3	1529.0	1407.4	1296.2	1233.7	1182.8	1145.9	1122.8
77.5°	1251.6	1075.9	932.2	804.2	703.0	635.0	587.1	556.1
80°	685.1	521.1	380.9	267.7	196.8	163.5	144.4	135.2
82.5°	213.4	137.7	101.5	87.6	81.4	77.9	72.2	63.0
85°	68.0	59.6	55.3	52.9	50.4	43.9	30.3	27.5
87.5°	26.3	27.0	26.8	25.3	25.8	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)