

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: P268161

Luminaire Tested: **GAN-AF-01-LED-U-5MQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268161
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-5MQ-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5687.7 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

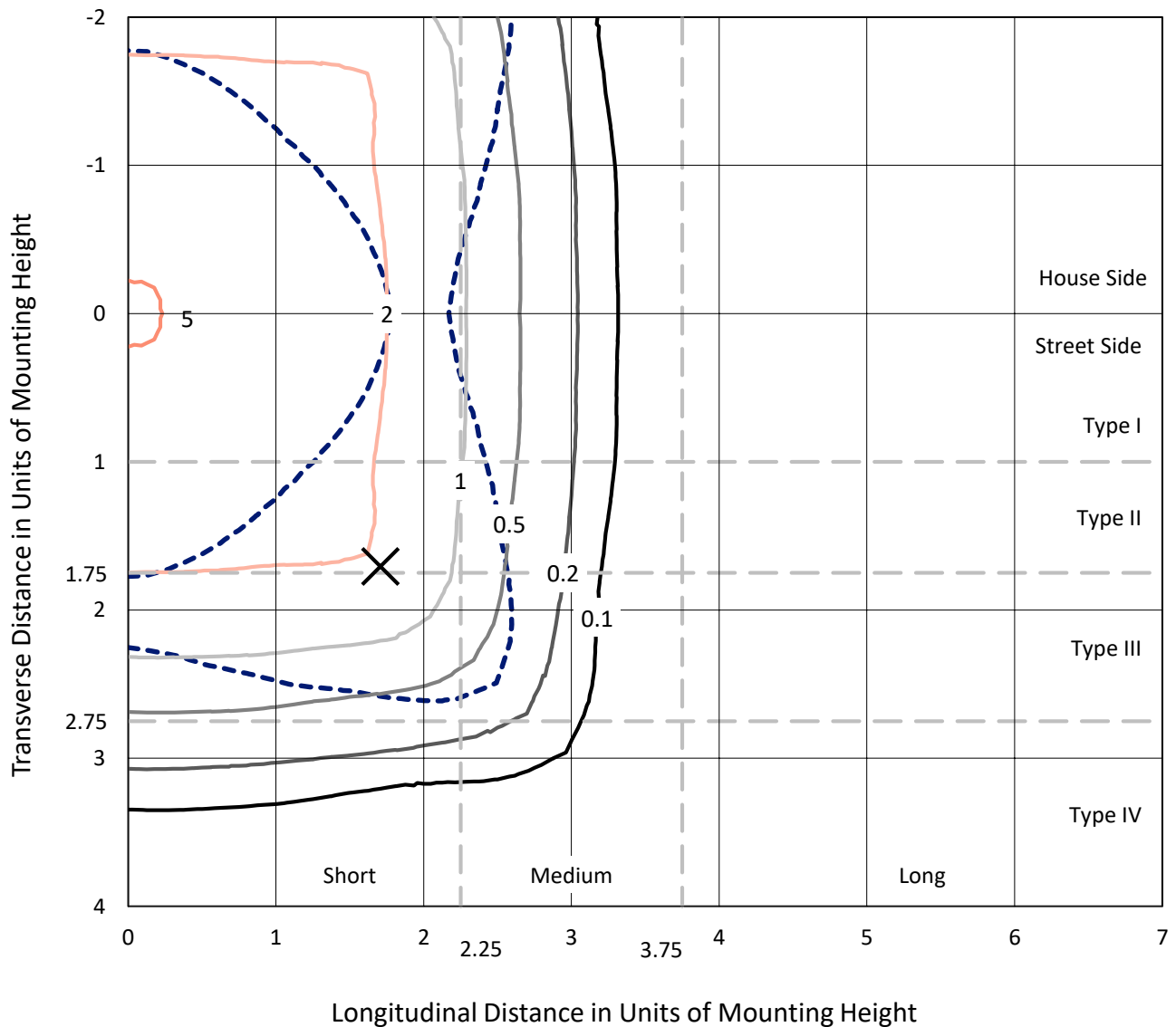
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

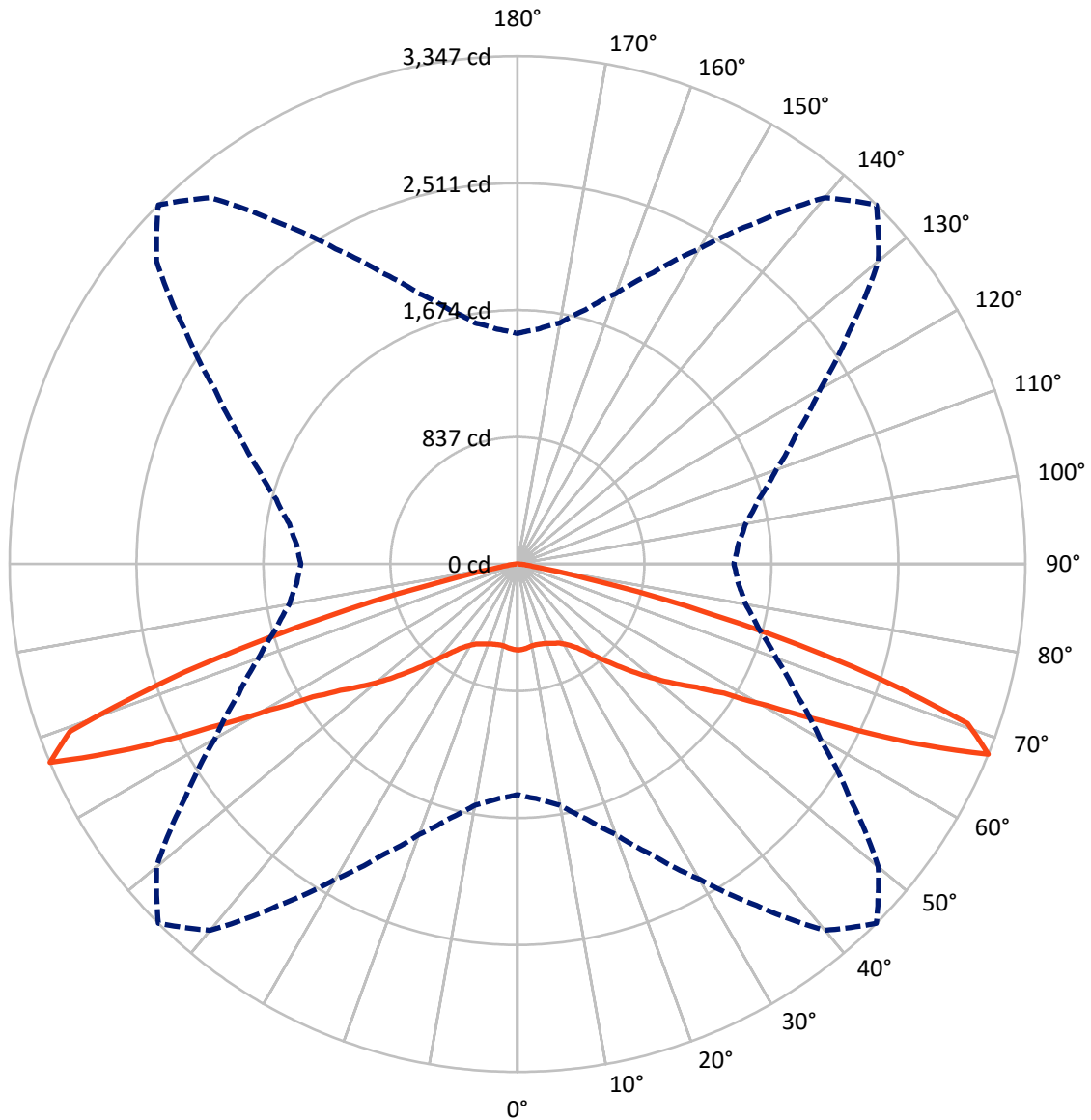
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.7 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2843.8	0.0	2843.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2843.8	0.0	2843.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	5687.7	0.0	5687.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.1	0.9
10°-20°	153.9	2.7
20°-30°	261.7	4.6
30°-40°	427.8	7.5
40°-50°	763.7	13.4
50°-60°	1287.6	22.6
60°-70°	1998.2	35.1
70°-80°	702.1	12.3
80°-90°	39.7	0.7
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°	5687.7	100.0
0°-180°	5687.7	100.0



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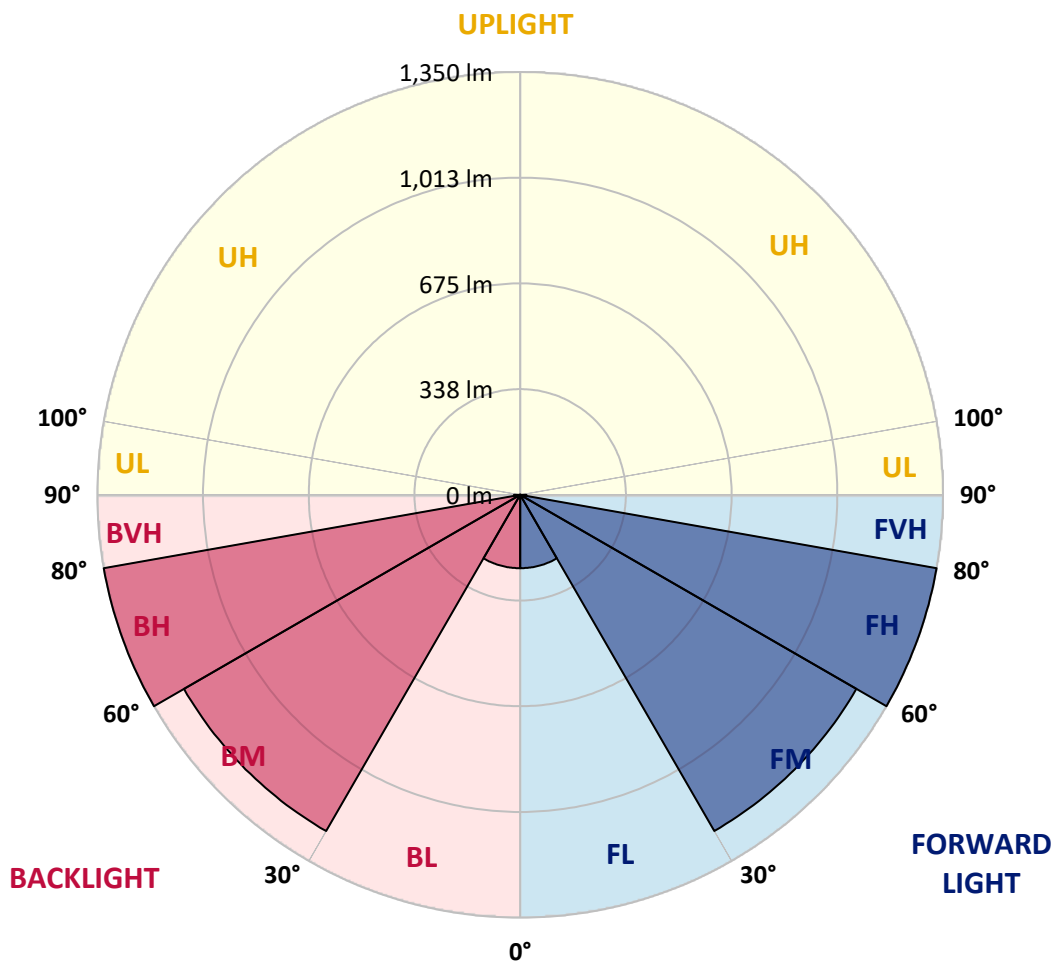
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	234.3	4.1			
FM	(30°-60°)	1239.5	21.8			
FH	(60°-80°)	1350.1	23.7			G1/1800
FVH	(80°-90°)	19.8	0.3			G1/100
BL	(0°-30°)	234.3	4.1	B1/500		
BM	(30°-60°)	1239.5	21.8	B2/2500		
BH	(60°-80°)	1350.1	23.7	B3/2500		G1/1800
BVH	(80°-90°)	19.8	0.3			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°	566.8	566.8	566.8	566.8	566.8	566.8	566.8	566.8	566.8	566.8	566.8
2.5°	564.8	565.3	565.3	565.3	564.9	564.9	564.5	564.9	564.8	564.0	564.1
5°	560.1	560.5	560.5	560.3	561.0	560.8	560.1	560.5	560.3	559.7	560.1
7.5°	553.1	554.0	554.0	553.7	554.6	554.3	553.7	554.0	554.0	553.1	553.1
10°	545.6	546.1	546.1	545.9	547.2	547.2	546.9	547.6	548.0	547.2	546.7
12.5°	538.5	539.3	539.3	540.4	541.7	542.1	543.6	544.6	545.6	545.4	544.4
15°	534.4	534.9	535.8	537.2	539.3	541.1	543.3	545.6	547.6	548.2	546.7
17.5°	531.7	532.5	534.1	535.8	538.9	541.9	545.1	548.2	551.1	552.2	550.3
20°	531.0	531.4	533.1	536.2	540.2	544.8	549.3	552.9	556.9	558.1	556.9
22.5°	532.5	533.7	535.4	539.1	544.4	550.3	555.5	560.5	565.6	567.9	566.0
25°	539.6	540.6	542.9	547.6	553.4	559.7	565.8	571.5	576.0	578.2	577.0
27.5°	552.6	554.0	556.9	561.6	567.9	574.6	581.3	586.0	589.6	590.4	588.7
30°	572.3	575.2	578.6	583.8	591.2	596.8	603.4	607.7	612.0	612.0	610.8
32.5°	602.9	605.7	609.4	614.4	620.2	626.5	632.1	635.9	640.5	640.9	637.6
35°	648.7	650.0	653.1	656.2	661.5	667.0	671.9	674.3	678.2	678.5	675.6
37.5°	709.1	709.3	711.5	712.4	717.1	723.2	727.9	729.6	733.1	732.7	729.8
40°	779.5	780.7	781.5	783.1	788.2	793.8	798.9	799.6	803.5	802.7	799.0
42.5°	860.8	861.4	865.7	868.1	872.9	875.7	882.0	882.8	887.4	885.4	881.1
45°	952.1	956.8	960.9	965.7	970.7	974.0	979.1	978.0	981.0	978.0	975.6
47.5°	1048.1	1051.5	1060.9	1068.3	1076.3	1079.3	1086.3	1083.1	1086.3	1081.7	1081.0
50°	1153.8	1159.7	1167.8	1176.2	1184.9	1189.5	1198.7	1194.8	1199.0	1194.8	1192.5
52.5°	1257.8	1259.5	1277.2	1289.4	1301.6	1307.0	1312.6	1310.6	1310.9	1310.6	1308.3
55°	1356.7	1360.4	1378.2	1394.9	1415.8	1431.3	1440.7	1439.7	1437.3	1435.0	1431.0
57.5°	1468.1	1471.9	1492.3	1512.8	1536.7	1558.6	1577.8	1597.4	1604.9	1607.0	1598.4
60°	1618.7	1618.6	1645.8	1670.8	1704.9	1737.5	1779.5	1822.0	1870.9	1893.6	1863.7
62.5°	1772.0	1778.4	1817.6	1862.0	1932.2	2000.4	2077.6	2153.4	2230.9	2293.9	2226.9
65°	1753.9	1777.8	1836.1	1936.8	2066.3	2220.2	2386.4	2562.5	2721.5	2830.9	2708.2
67.5°	1519.9	1554.2	1613.5	1736.0	1897.8	2119.7	2399.1	2747.1	3151.9	3347.4	3105.0
70°	1101.7	1140.4	1202.7	1322.1	1482.6	1693.3	1996.8	2414.7	2950.5	3147.7	2880.5
72.5°	548.2	569.2	607.7	683.7	805.2	976.2	1251.2	1653.2	2126.9	2308.0	2063.9
75°	186.2	195.9	202.5	227.4	265.8	332.9	469.8	722.6	1102.5	1321.6	1086.8
77.5°	107.4	107.7	112.2	116.7	123.2	130.6	148.8	195.4	337.9	480.0	349.7
80°	69.6	69.3	73.0	76.4	80.8	84.5	85.5	90.5	104.4	123.7	110.6
82.5°	36.1	40.6	48.7	53.1	61.4	63.1	60.9	59.1	62.5	64.9	66.5
85°	19.9	17.2	26.0	33.4	37.1	37.6	37.6	35.6	36.9	36.1	39.3
87.5°	9.2	8.4	10.2	16.4	17.5	14.9	15.7	13.8	9.9	9.7	11.0
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°	566.8	566.8	566.8	566.8	566.8	566.8	566.8	566.8
2.5°	564.1	564.5	564.5	565.3	565.6	566.0	566.6	566.8
5°	559.7	560.5	560.1	560.8	560.8	561.4	561.4	561.6
7.5°	553.1	554.0	554.0	554.0	553.7	554.6	554.6	554.6
10°	546.3	546.9	546.7	546.1	545.6	546.3	546.1	545.9
12.5°	544.4	542.9	541.9	541.4	540.4	540.6	539.8	539.8
15°	545.6	543.3	541.4	540.6	539.6	539.1	538.5	538.9
17.5°	549.0	546.1	543.7	542.4	541.1	540.4	539.3	539.6
20°	555.1	551.6	548.2	545.6	543.3	541.9	541.1	540.9
22.5°	564.0	558.9	554.0	550.0	546.9	545.1	544.4	543.7
25°	574.1	568.6	562.9	558.4	555.3	552.9	551.4	551.4
27.5°	587.0	582.6	577.3	572.0	569.2	566.8	565.8	565.3
30°	608.4	604.2	600.0	595.0	591.4	589.0	587.2	585.6
32.5°	635.9	632.4	629.1	625.4	621.9	618.8	616.0	614.7
35°	674.5	671.9	669.5	665.5	664.0	662.3	660.8	659.4
37.5°	727.9	726.9	726.9	722.4	721.3	720.6	719.1	719.4
40°	798.1	799.0	797.8	796.2	795.4	793.4	793.4	795.1
42.5°	881.0	881.7	884.7	882.0	884.9	882.2	880.7	882.0
45°	977.1	980.1	985.8	983.3	985.0	980.6	975.1	975.4
47.5°	1085.2	1087.8	1090.3	1088.3	1088.7	1081.3	1074.0	1072.1
50°	1197.4	1198.5	1199.7	1197.3	1197.7	1189.5	1181.2	1181.5
52.5°	1308.3	1313.3	1318.5	1311.4	1309.9	1300.7	1289.0	1284.2
55°	1435.2	1442.3	1436.2	1424.0	1411.6	1399.4	1383.8	1381.4
57.5°	1591.5	1579.6	1560.7	1537.4	1520.4	1503.3	1487.6	1480.9
60°	1809.2	1763.9	1730.0	1695.5	1673.7	1652.5	1632.0	1628.7
62.5°	2116.8	2038.7	1970.8	1899.5	1841.2	1795.6	1759.3	1749.1
65°	2502.4	2317.4	2157.1	2007.5	1877.5	1779.5	1717.6	1690.5
67.5°	2668.1	2303.1	2028.2	1815.7	1645.8	1526.9	1460.3	1427.0
70°	2344.7	1909.9	1610.9	1398.3	1243.4	1116.9	1056.4	1020.8
72.5°	1613.0	1215.0	960.6	784.2	660.4	554.6	512.7	509.5
75°	724.3	479.8	330.7	254.8	214.4	186.5	177.9	171.3
77.5°	202.7	149.8	133.7	125.0	116.7	107.0	103.3	104.2
80°	98.6	93.2	89.4	83.9	76.4	68.4	64.6	66.1
82.5°	65.3	64.6	67.0	63.1	52.0	44.1	37.1	34.0
85°	39.7	40.2	41.1	41.3	35.0	24.7	16.8	18.9
87.5°	15.7	18.1	19.7	20.4	19.1	11.8	9.4	9.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)