

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: P191639

Luminaire Tested: **GLEON-AF-01-LED-E1-5NQ-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191639
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
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-E1-5NQ-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5194 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - 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

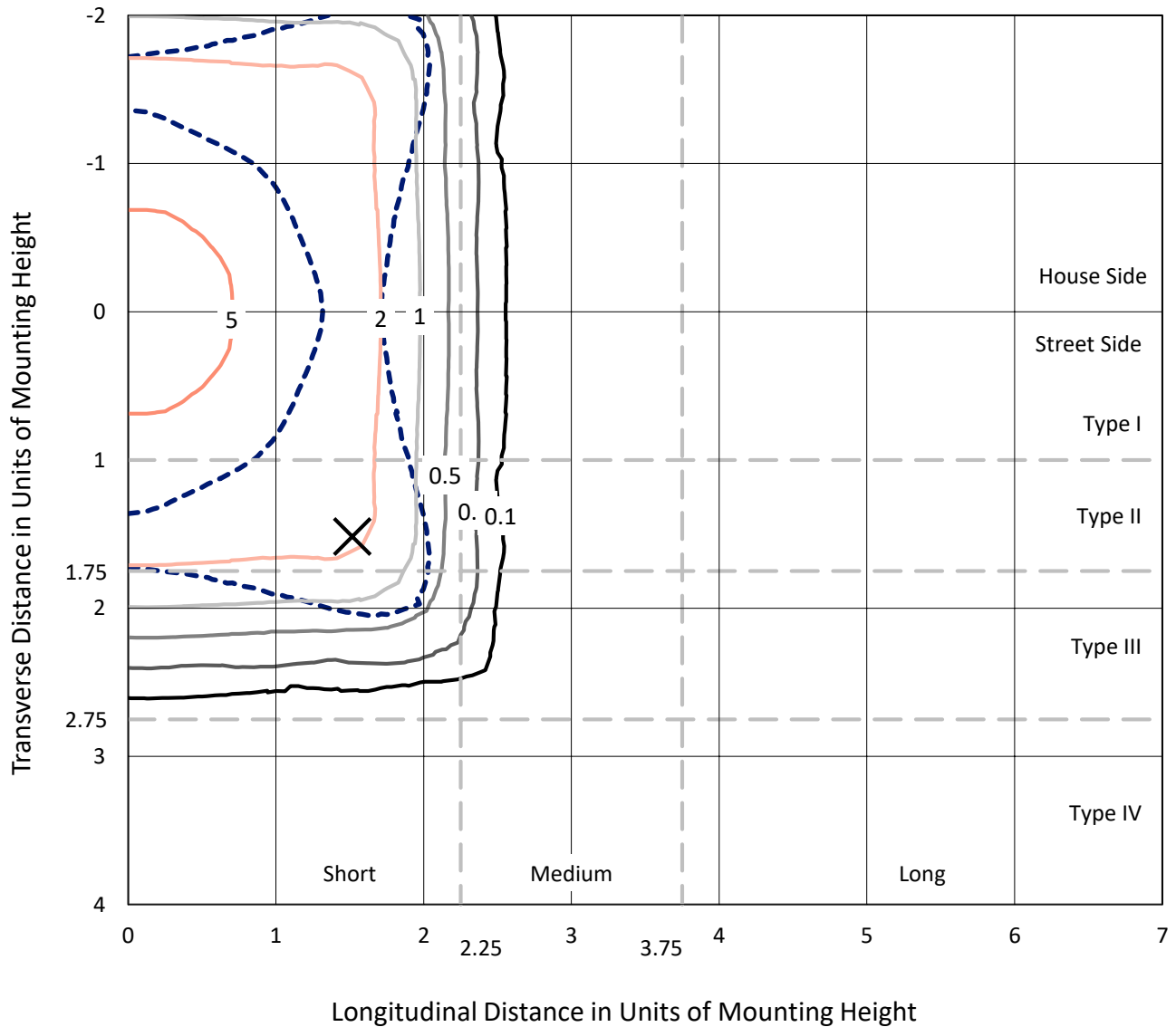


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

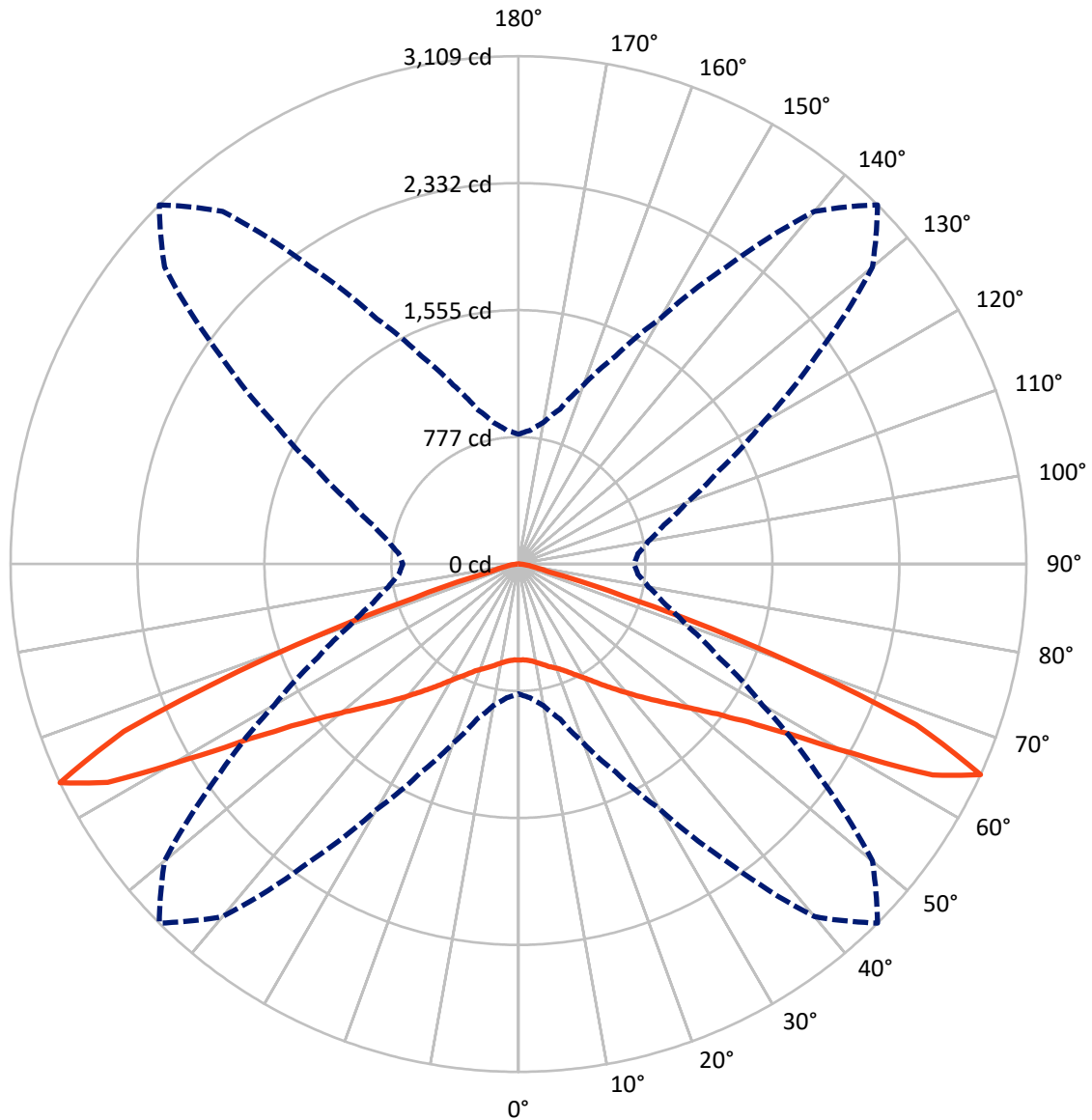


Based on 10 foot mounting height. Maximum calculated value = 5.9 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2597.0	0.0	2597.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2597.0	0.0	2597.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5194.0	0.0	5194.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.3	1.1
10°-20°	183.7	3.5
20°-30°	343.5	6.6
30°-40°	581.0	11.2
40°-50°	950.0	18.3
50°-60°	1510.6	29.1
60°-70°	1365.5	26.3
70°-80°	172.8	3.3
80°-90°	29.7	0.6
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°	5194.0	100.0
0°-180°	5194.0	100.0



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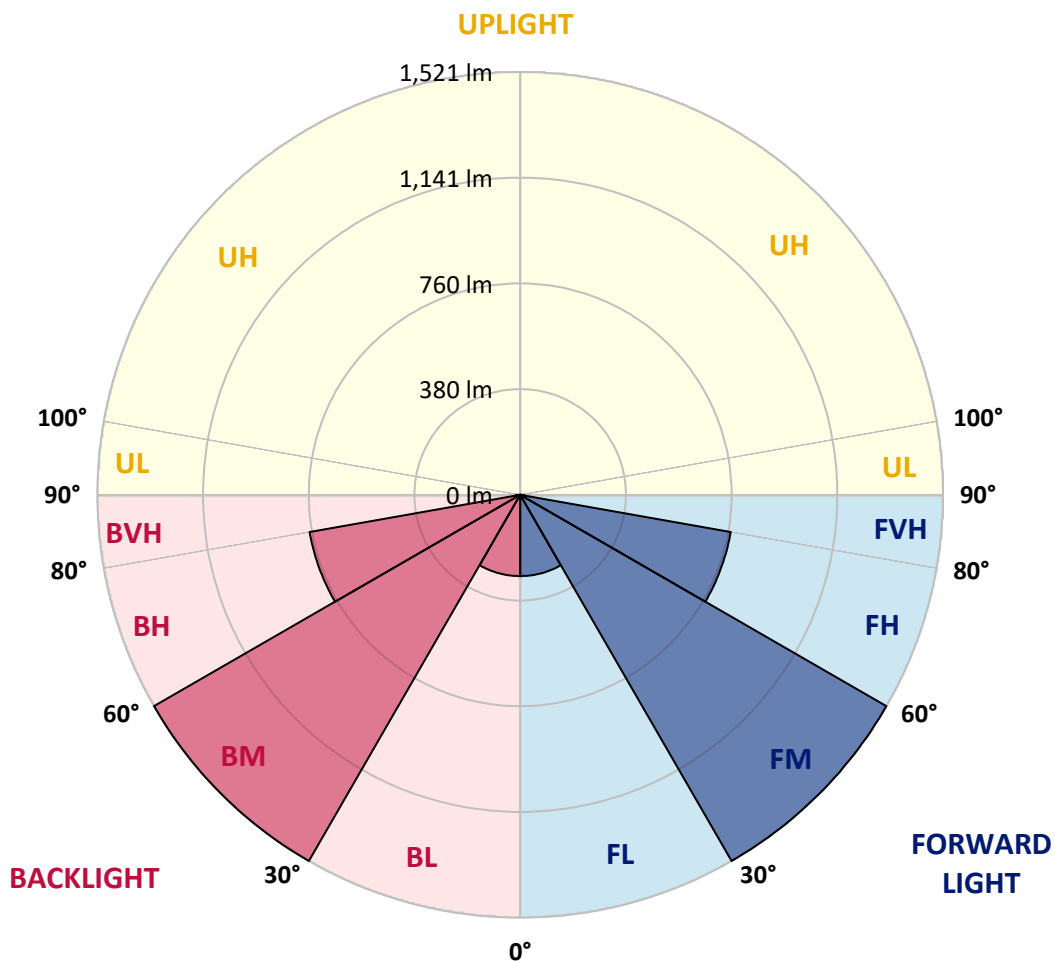
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	292.3	5.6			
FM (30°-60°)	1520.7	29.3			
FH (60°-80°)	769.1	14.8			G1/1800
FVH (80°-90°)	14.9	0.3			G1/100
BL (0°-30°)	292.3	5.6	B1/500		
BM (30°-60°)	1520.7	29.3	B2/2500		
BH (60°-80°)	769.1	14.8	B2/1000		G1/1800
BVH (80°-90°)	14.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	587.7	587.7	587.7	587.7	587.7	587.7	587.7	587.7	587.7	587.7	587.7
2.5°	588.2	588.7	589.2	588.7	589.2	588.4	587.9	588.7	587.9	587.2	587.7
5°	593.3	593.5	593.5	592.8	593.5	593.1	592.3	593.3	592.6	591.8	592.3
7.5°	601.8	602.8	602.1	601.3	601.8	601.3	600.8	601.1	600.8	600.1	600.4
10°	613.2	614.0	613.5	613.2	613.7	613.5	613.0	612.8	613.0	612.3	612.3
12.5°	627.1	626.9	626.6	626.9	627.6	627.6	627.4	627.6	628.1	628.3	627.8
15°	640.7	641.2	641.2	641.2	642.7	643.9	644.6	645.1	646.1	646.3	645.4
17.5°	657.8	657.8	657.5	657.8	659.2	661.2	661.9	662.9	663.8	664.6	663.4
20°	676.7	677.2	677.2	677.7	679.7	681.8	681.8	682.3	681.8	682.3	681.6
22.5°	699.8	701.3	701.3	701.5	703.5	706.2	705.4	706.2	705.0	705.9	705.0
25°	730.0	732.2	731.7	731.7	733.2	734.9	735.1	736.6	736.3	737.5	736.8
27.5°	764.1	767.5	768.4	768.2	769.2	770.9	771.4	773.1	772.1	773.1	772.6
30°	804.9	806.4	808.3	809.1	810.3	812.0	812.0	812.2	811.0	812.5	813.2
32.5°	847.3	849.9	851.9	856.3	858.4	859.7	859.4	859.9	858.7	860.6	862.1
35°	903.2	905.2	908.3	911.7	914.6	914.4	913.7	913.9	913.9	915.6	917.1
37.5°	970.6	971.1	975.2	980.1	981.5	980.1	975.7	974.7	972.5	974.7	977.2
40°	1041.9	1043.6	1051.8	1055.0	1055.7	1053.1	1046.7	1043.1	1038.2	1040.9	1044.3
42.5°	1116.5	1119.9	1127.5	1133.1	1135.5	1133.8	1125.1	1119.5	1113.1	1114.6	1118.0
45°	1199.2	1203.4	1214.1	1219.4	1224.1	1221.4	1212.9	1204.4	1194.4	1195.1	1200.5
47.5°	1291.7	1295.8	1309.7	1318.7	1321.1	1320.6	1311.1	1299.5	1285.8	1285.4	1290.0
50°	1395.3	1399.4	1416.7	1430.6	1437.6	1436.9	1425.7	1409.2	1392.6	1392.9	1398.7
52.5°	1496.5	1501.6	1519.6	1543.5	1557.3	1567.3	1560.5	1544.9	1524.7	1525.2	1530.6
55°	1591.4	1599.9	1620.6	1652.9	1678.7	1706.7	1714.7	1714.2	1702.1	1705.5	1710.8
57.5°	1637.3	1650.0	1681.9	1732.9	1785.5	1842.4	1890.6	1926.6	1941.9	1965.0	1959.7
60°	1550.3	1570.5	1617.4	1692.6	1796.4	1915.1	2042.4	2166.7	2272.7	2352.8	2306.8
62.5°	1269.3	1295.6	1352.5	1448.8	1606.0	1796.0	2039.4	2333.3	2653.4	2846.6	2708.6
65°	794.2	821.5	879.4	982.5	1166.4	1402.6	1732.9	2219.9	2818.1	3109.3	2828.6
67.5°	309.7	324.5	355.9	421.8	560.0	770.1	1101.7	1654.4	2369.8	2625.0	2325.8
70°	155.2	156.7	162.5	174.7	204.3	265.4	403.8	767.0	1359.1	1641.5	1310.2
72.5°	112.1	112.4	115.3	120.7	130.1	143.8	170.0	234.7	442.0	675.5	414.3
75°	85.9	86.8	88.5	91.5	96.6	103.4	112.9	135.2	167.6	194.4	163.5
77.5°	66.2	68.1	69.3	72.0	75.2	79.8	82.5	91.0	105.8	111.4	109.7
80°	50.4	52.1	54.7	56.9	59.1	61.3	60.3	64.2	72.0	76.6	74.2
82.5°	32.1	34.1	41.8	43.8	44.8	46.2	44.5	44.8	48.2	51.1	48.2
85°	20.7	21.9	26.5	28.9	29.2	30.2	29.4	27.7	27.7	25.3	28.5
87.5°	9.5	9.7	11.9	14.1	14.6	13.1	12.9	12.4	10.0	9.5	10.2
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°	587.7	587.7	587.7	587.7	587.7	587.7	587.7	587.7
2.5°	587.5	587.9	588.2	588.9	589.2	589.2	589.4	589.9
5°	592.1	592.8	593.1	594.0	594.3	594.0	594.5	594.8
7.5°	600.4	601.6	602.1	603.0	602.3	603.3	603.5	603.5
10°	612.5	613.7	614.0	614.9	614.5	614.9	614.9	614.5
12.5°	628.6	628.8	628.1	628.8	627.8	628.3	627.6	627.1
15°	646.3	645.6	643.9	643.9	642.4	642.7	642.4	642.2
17.5°	663.6	662.1	660.9	660.4	659.2	659.0	658.2	658.2
20°	682.6	681.8	681.1	680.1	678.9	677.7	677.5	678.0
22.5°	705.4	705.2	705.2	704.7	703.0	701.8	701.1	701.1
25°	736.1	733.9	733.9	733.7	732.9	732.2	730.7	731.5
27.5°	770.6	769.4	770.4	770.1	769.4	769.4	768.4	768.4
30°	813.2	812.7	814.2	813.0	810.5	810.3	809.3	808.1
32.5°	862.3	861.9	864.0	862.6	858.7	856.5	854.6	853.6
35°	917.1	917.3	920.0	919.0	914.6	913.2	909.8	909.3
37.5°	976.9	980.8	985.4	986.4	982.7	981.8	978.1	976.2
40°	1047.2	1052.3	1059.4	1061.1	1057.2	1056.5	1051.3	1048.7
42.5°	1122.1	1130.9	1139.6	1141.1	1137.2	1133.3	1128.5	1126.5
45°	1205.8	1216.3	1227.7	1230.6	1224.8	1220.2	1213.8	1213.8
47.5°	1299.7	1312.8	1325.7	1333.8	1328.4	1323.6	1316.0	1311.1
50°	1410.6	1428.6	1445.4	1453.7	1445.2	1435.9	1422.8	1418.4
52.5°	1549.8	1569.2	1583.8	1579.5	1566.3	1553.4	1539.1	1533.2
55°	1727.4	1733.9	1733.9	1717.4	1691.1	1669.5	1646.8	1639.3
57.5°	1949.4	1924.1	1885.2	1835.8	1773.8	1719.8	1683.3	1666.1
60°	2210.5	2088.8	1951.4	1816.4	1705.5	1614.0	1559.8	1534.9
62.5°	2384.4	2066.2	1790.8	1574.1	1414.5	1304.3	1229.4	1200.2
65°	2228.5	1723.2	1354.4	1095.1	921.2	809.1	734.9	707.6
67.5°	1632.2	1079.8	721.3	516.9	378.7	302.1	271.7	259.1
70°	732.7	380.2	233.0	182.0	156.9	144.0	138.4	136.5
72.5°	220.9	159.8	134.8	121.6	111.7	105.3	100.7	100.2
75°	133.3	110.9	98.5	90.7	84.4	79.3	76.9	76.1
77.5°	93.2	81.5	75.7	70.1	65.2	61.3	59.1	57.4
80°	65.4	59.8	57.2	54.0	50.8	47.2	44.0	42.6
82.5°	43.8	42.6	42.6	40.6	37.9	34.5	28.2	26.8
85°	28.2	28.0	28.5	27.7	25.8	22.1	18.2	17.3
87.5°	13.1	13.4	14.8	14.6	14.1	11.7	9.2	8.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)