

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: P268965

Luminaire Tested: **GLEON-AF-01-LED-E1-5NQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268965
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-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5585.6 lumens
Efficiency: N/A
Efficacy: 94.7 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

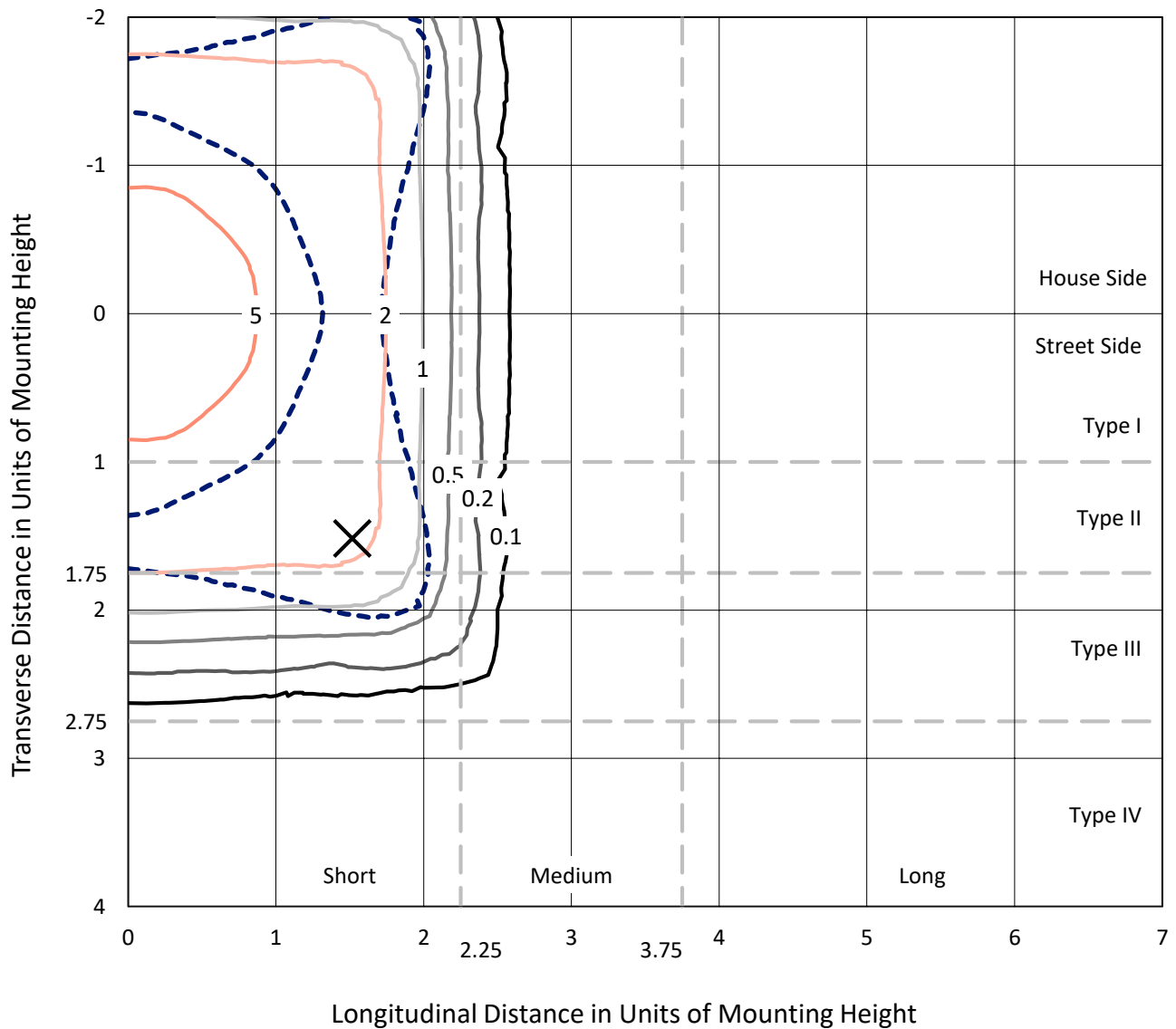
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

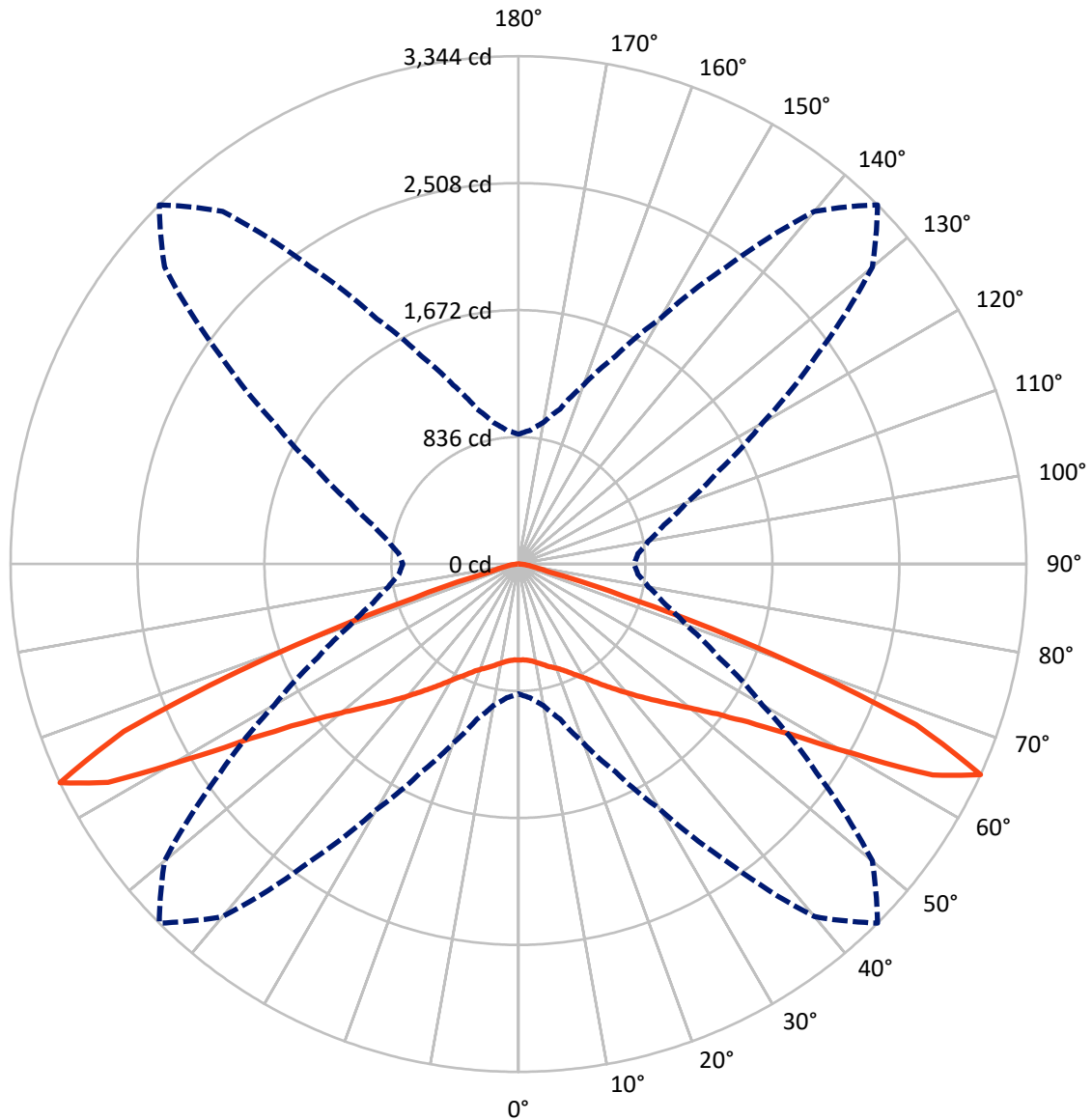
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.3 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	2792.8	0.0	2792.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2792.8	0.0	2792.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	5585.6	0.0	5585.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.6	1.1
10°-20°	197.6	3.5
20°-30°	369.4	6.6
30°-40°	624.8	11.2
40°-50°	1021.6	18.3
50°-60°	1624.5	29.1
60°-70°	1468.4	26.3
70°-80°	185.8	3.3
80°-90°	32.0	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°	5585.6	100.0
0°-180°	5585.6	100.0



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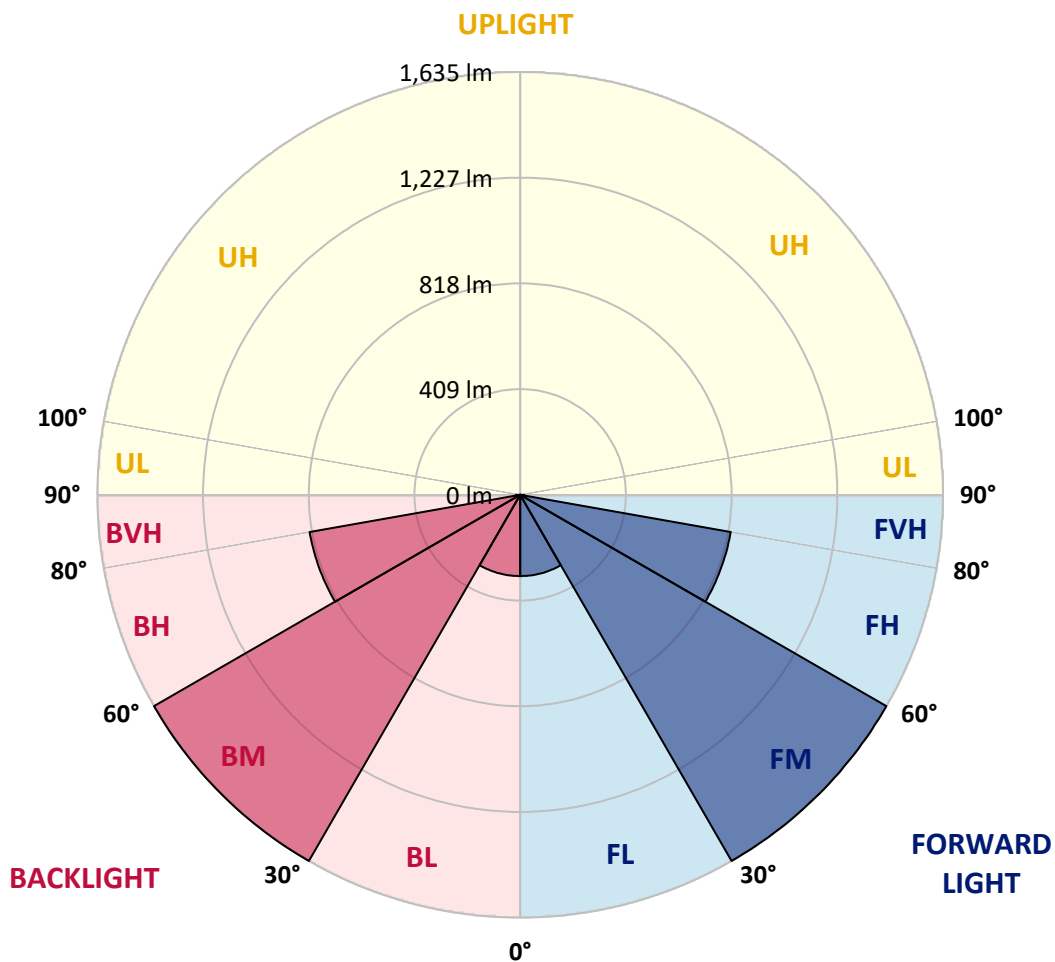
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	314.3	5.6			
FM	(30°-60°)	1635.4	29.3			
FH	(60°-80°)	827.1	14.8			G1/1800
FVH	(80°-90°)	16.0	0.3			G1/100
BL	(0°-30°)	314.3	5.6	B1/500		
BM	(30°-60°)	1635.4	29.3	B2/2500		
BH	(60°-80°)	827.1	14.8	B2/1000		G1/1800
BVH	(80°-90°)	16.0	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°	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0
2.5°	632.5	633.0	633.6	633.0	633.6	632.8	632.2	633.0	632.2	631.5	632.0
5°	638.1	638.2	638.2	637.4	638.2	637.7	637.0	638.1	637.3	636.4	637.0
7.5°	647.1	648.2	647.5	646.7	647.1	646.7	646.2	646.4	646.2	645.3	645.6
10°	659.4	660.3	659.7	659.4	660.1	659.7	659.3	658.9	659.3	658.5	658.5
12.5°	674.4	674.2	673.9	674.2	674.9	674.9	674.6	674.9	675.4	675.7	675.2
15°	689.0	689.5	689.5	689.5	691.2	692.5	693.2	693.8	694.7	695.1	694.0
17.5°	707.3	707.3	707.1	707.3	708.9	711.0	711.7	712.9	714.0	714.7	713.3
20°	727.7	728.3	728.3	728.9	731.0	733.2	733.2	733.7	733.2	733.7	732.9
22.5°	752.6	754.1	754.1	754.4	756.6	759.3	758.6	759.3	758.1	759.2	758.1
25°	785.1	787.5	786.8	786.8	788.4	790.2	790.6	792.1	791.9	793.2	792.3
27.5°	821.7	825.4	826.4	826.1	827.2	829.0	829.6	831.3	830.4	831.3	830.8
30°	865.6	867.3	869.3	870.1	871.4	873.2	873.2	873.4	872.2	873.7	874.5
32.5°	911.2	914.0	916.1	920.9	923.2	924.4	924.3	924.7	923.5	925.6	927.1
35°	971.2	973.5	976.7	980.5	983.6	983.4	982.6	982.8	982.8	984.6	986.2
37.5°	1043.8	1044.3	1048.7	1054.0	1055.6	1054.0	1049.3	1048.2	1045.8	1048.2	1050.8
40°	1120.5	1122.3	1131.1	1134.5	1135.3	1132.5	1125.7	1121.8	1116.6	1119.4	1123.1
42.5°	1200.8	1204.4	1212.5	1218.6	1221.2	1219.3	1209.8	1203.9	1197.0	1198.6	1202.3
45°	1289.6	1294.1	1305.6	1311.3	1316.3	1313.5	1304.2	1295.1	1284.4	1285.3	1291.0
47.5°	1389.0	1393.5	1408.5	1418.2	1420.7	1420.2	1410.0	1397.5	1382.9	1382.3	1387.3
50°	1500.4	1505.0	1523.5	1538.4	1546.1	1545.3	1533.1	1515.4	1497.7	1498.0	1504.2
52.5°	1609.4	1614.9	1634.1	1659.8	1674.7	1685.5	1678.2	1661.3	1639.6	1640.2	1646.0
55°	1711.4	1720.6	1742.7	1777.6	1805.2	1835.3	1844.0	1843.4	1830.3	1834.1	1839.8
57.5°	1760.8	1774.4	1808.6	1863.7	1920.0	1981.3	2033.1	2071.9	2088.3	2113.2	2107.5
60°	1667.2	1688.9	1739.4	1820.1	1931.8	2059.5	2196.4	2330.1	2444.1	2530.2	2480.7
62.5°	1365.1	1393.2	1454.4	1558.1	1727.0	1931.4	2193.2	2509.2	2853.5	3061.2	2912.8
65°	854.1	883.5	945.6	1056.5	1254.4	1508.3	1863.7	2387.3	3030.6	3343.8	3041.8
67.5°	333.0	349.0	382.7	453.6	602.3	828.1	1184.8	1779.2	2548.4	2822.8	2501.2
70°	166.8	168.4	174.7	187.8	219.7	285.4	434.2	824.9	1461.5	1765.3	1408.9
72.5°	120.6	120.8	124.0	129.7	140.0	154.6	182.8	252.5	475.4	726.5	445.5
75°	92.3	93.5	95.2	98.4	103.8	111.2	121.5	145.4	180.2	209.0	175.8
77.5°	71.1	73.2	74.6	77.4	80.8	85.8	88.8	97.8	113.7	119.8	117.9
80°	54.2	56.0	58.8	61.3	63.6	65.9	64.9	69.1	77.4	82.5	79.8
82.5°	34.6	36.7	44.9	47.2	48.1	49.6	47.9	48.1	51.8	54.9	51.8
85°	22.3	23.5	28.6	31.1	31.4	32.3	31.7	29.9	29.9	27.2	30.6
87.5°	10.2	10.5	12.8	15.2	15.7	14.2	13.8	13.4	10.7	10.2	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°	632.0	632.0	632.0	632.0	632.0	632.0	632.0	632.0
2.5°	631.8	632.2	632.5	633.3	633.6	633.6	633.8	634.4
5°	636.7	637.4	637.7	638.9	639.1	638.9	639.4	639.7
7.5°	645.6	646.9	647.5	648.4	647.7	648.8	649.0	649.0
10°	658.6	660.1	660.3	661.3	660.9	661.3	661.3	660.9
12.5°	676.0	676.2	675.4	676.2	675.2	675.7	674.9	674.4
15°	695.1	694.3	692.5	692.5	690.8	691.2	690.8	690.5
17.5°	713.7	712.0	710.7	710.2	708.9	708.7	707.9	707.9
20°	734.0	733.2	732.5	731.4	730.1	728.9	728.5	729.1
22.5°	758.6	758.3	758.3	757.8	756.1	754.7	753.9	753.9
25°	791.5	789.3	789.3	789.0	788.3	787.5	785.8	786.6
27.5°	828.7	827.3	828.4	828.1	827.3	827.3	826.4	826.4
30°	874.5	874.1	875.6	874.2	871.6	871.4	870.3	869.0
32.5°	927.4	926.8	929.1	927.6	923.5	921.1	919.0	918.0
35°	986.2	986.5	989.4	988.3	983.6	982.0	978.3	977.8
37.5°	1050.6	1054.8	1059.7	1060.8	1056.9	1055.8	1051.8	1049.8
40°	1126.1	1131.7	1139.2	1141.0	1136.8	1136.0	1130.5	1127.7
42.5°	1206.8	1216.1	1225.6	1227.2	1223.0	1218.8	1213.5	1211.5
45°	1296.8	1308.0	1320.2	1323.5	1317.2	1312.2	1305.3	1305.3
47.5°	1397.8	1411.9	1425.7	1434.4	1428.6	1423.4	1415.2	1410.0
50°	1517.0	1536.3	1554.3	1563.3	1554.2	1544.1	1530.1	1525.3
52.5°	1666.6	1687.6	1703.2	1698.5	1684.4	1670.6	1655.0	1648.7
55°	1857.5	1864.6	1864.6	1846.8	1818.6	1795.4	1771.0	1763.0
57.5°	2096.5	2069.2	2027.4	1974.3	1907.6	1849.5	1810.3	1791.7
60°	2377.2	2246.3	2098.5	1953.4	1834.1	1735.6	1677.3	1650.6
62.5°	2564.1	2222.0	1925.8	1692.8	1521.2	1402.7	1322.0	1290.8
65°	2396.5	1853.2	1456.5	1177.7	990.7	870.1	790.2	761.0
67.5°	1755.3	1161.1	775.6	556.0	407.3	324.8	292.2	278.7
70°	788.0	408.9	250.5	195.7	168.7	154.9	148.8	146.8
72.5°	237.5	171.8	144.9	130.9	120.1	113.2	108.2	107.7
75°	143.4	119.3	105.9	97.6	90.8	85.2	82.6	81.8
77.5°	100.3	87.7	81.3	75.4	70.1	65.9	63.6	61.8
80°	70.3	64.4	61.4	58.1	54.6	50.8	47.3	45.8
82.5°	47.2	45.8	45.8	43.7	40.9	37.1	30.4	28.7
85°	30.4	30.2	30.6	29.9	27.8	23.9	19.7	18.5
87.5°	14.2	14.5	16.0	15.7	15.2	12.5	9.9	9.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)