

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: P270141

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270141
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: GWC-AF-01-LED-E1-5NQ-7027
Description: GALLEON WALL 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: 5697.5 lumens
Efficiency: N/A
Efficacy: 96.6 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

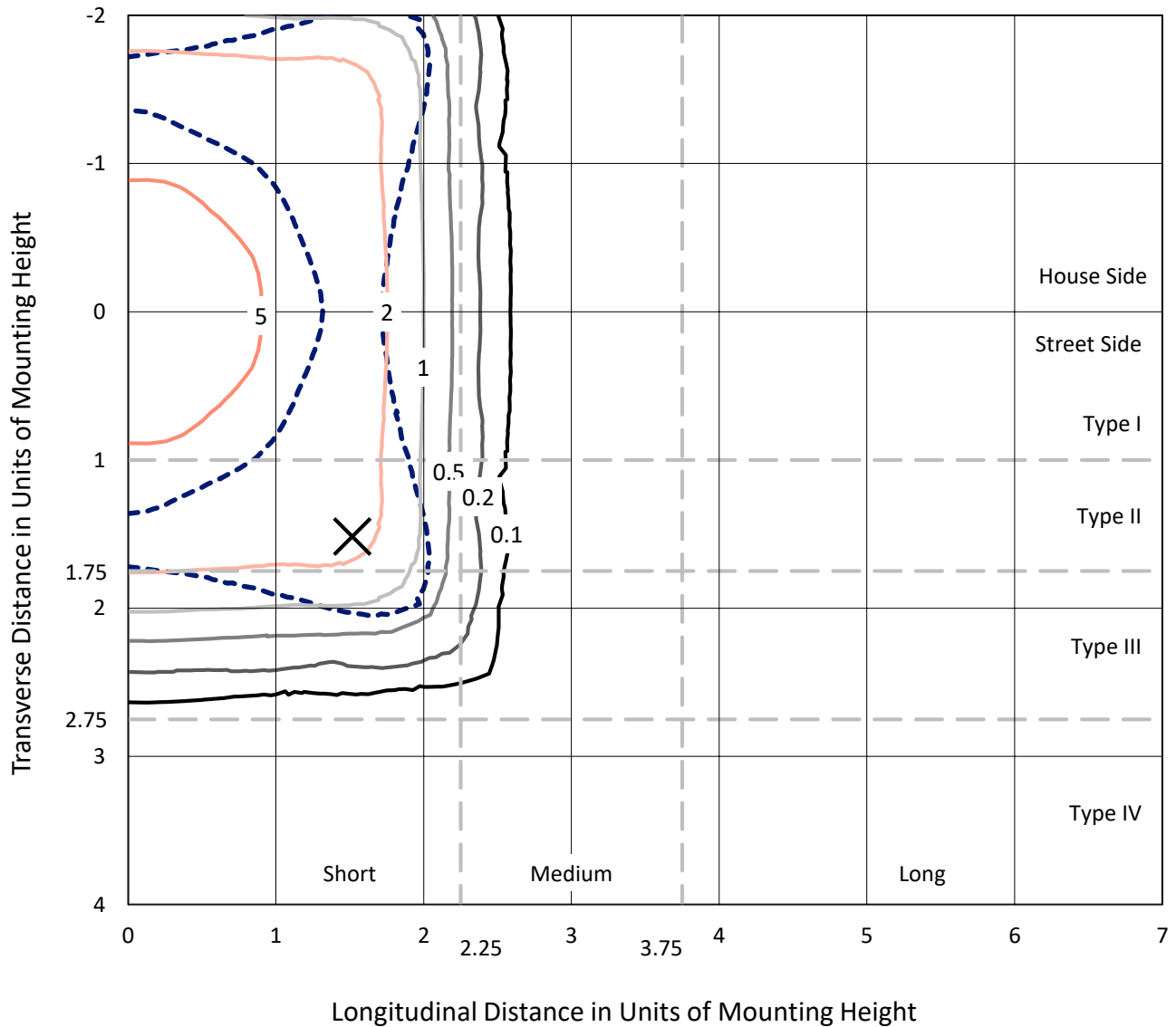


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

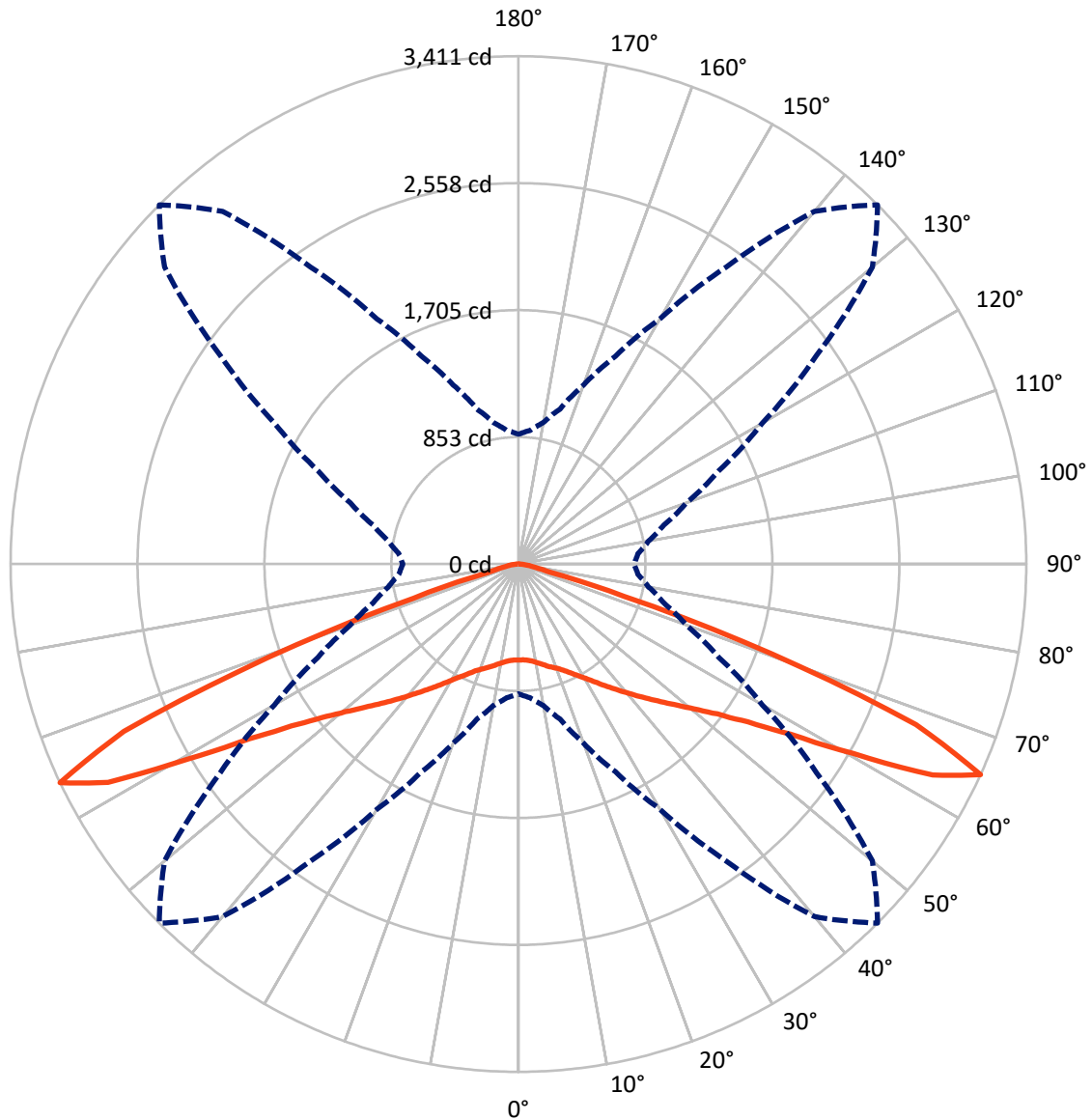


Based on 10 foot mounting height. Maximum calculated value = 6.5 fc
 Type V - Short - Full Cutoff

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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	2848.8	0.0	2848.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2848.8	0.0	2848.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	5697.5	0.0	5697.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.8	1.1
10°-20°	201.5	3.5
20°-30°	376.8	6.6
30°-40°	637.3	11.2
40°-50°	1042.0	18.3
50°-60°	1657.0	29.1
60°-70°	1497.8	26.3
70°-80°	189.6	3.3
80°-90°	32.6	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°	5697.5	100.0
0°-180°	5697.5	100.0



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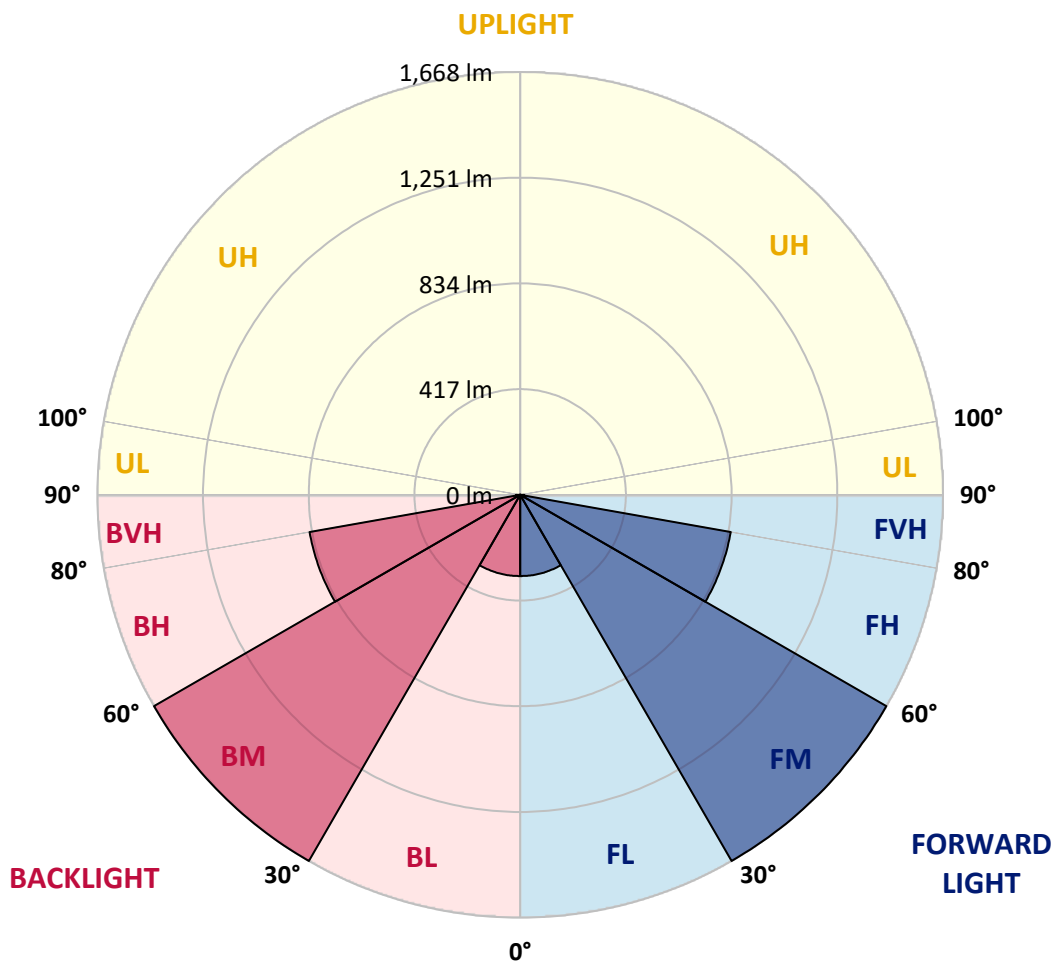
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	320.6	5.6			
FM	(30°-60°)	1668.2	29.3			
FH	(60°-80°)	843.7	14.8			G1/1800
FVH	(80°-90°)	16.3	0.3			G1/100
BL	(0°-30°)	320.6	5.6	B1/500		
BM	(30°-60°)	1668.2	29.3	B2/2500		
BH	(60°-80°)	843.7	14.8	B2/1000		G1/1800
BVH	(80°-90°)	16.3	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°	644.7	644.7	644.7	644.7	644.7	644.7	644.7	644.7	644.7	644.7	644.7
2.5°	645.3	645.7	646.3	645.7	646.3	645.5	645.0	645.7	645.0	644.2	644.7
5°	650.8	651.1	651.1	650.3	651.1	650.6	649.7	650.8	650.1	649.3	649.7
7.5°	660.2	661.2	660.4	659.6	660.2	659.6	659.0	659.4	659.0	658.3	658.5
10°	672.7	673.5	673.0	672.7	673.2	673.0	672.4	672.1	672.4	671.7	671.7
12.5°	687.9	687.7	687.4	687.7	688.5	688.5	688.2	688.5	689.0	689.2	688.7
15°	702.8	703.5	703.5	703.5	705.0	706.2	707.1	707.7	708.8	709.0	708.0
17.5°	721.5	721.5	721.2	721.5	723.1	725.2	726.1	727.1	728.2	729.0	727.6
20°	742.3	742.9	742.9	743.3	745.6	748.0	748.0	748.5	748.0	748.5	747.7
22.5°	767.7	769.3	769.3	769.6	771.6	774.6	773.8	774.6	773.4	774.3	773.4
25°	800.7	803.2	802.6	802.6	804.3	806.0	806.4	807.9	807.8	809.1	808.2
27.5°	838.1	841.9	842.9	842.7	843.8	845.7	846.2	848.0	846.9	848.0	847.6
30°	882.9	884.7	886.6	887.4	888.9	890.7	890.7	890.9	889.6	891.2	892.0
32.5°	929.3	932.4	934.4	939.3	941.7	943.0	942.7	943.3	942.0	944.1	945.6
35°	990.8	992.8	996.4	1000.2	1003.2	1003.0	1002.1	1002.5	1002.5	1004.3	1006.0
37.5°	1064.8	1065.2	1069.7	1075.1	1076.7	1075.1	1070.3	1069.3	1066.7	1069.3	1071.9
40°	1142.9	1144.7	1153.9	1157.2	1158.0	1155.1	1148.3	1144.3	1138.8	1141.7	1145.5
42.5°	1224.7	1228.5	1236.7	1243.0	1245.6	1243.8	1234.1	1228.0	1221.1	1222.7	1226.4
45°	1315.5	1320.0	1331.7	1337.7	1342.7	1339.8	1330.4	1321.0	1310.2	1310.9	1316.8
47.5°	1416.8	1421.5	1436.7	1446.5	1449.1	1448.6	1438.2	1425.4	1410.5	1410.0	1415.0
50°	1530.5	1535.2	1554.1	1569.2	1577.1	1576.2	1563.9	1545.8	1527.7	1527.8	1534.3
52.5°	1641.6	1647.2	1667.0	1693.0	1708.2	1719.3	1711.7	1694.7	1672.6	1673.1	1678.9
55°	1745.6	1755.0	1777.7	1813.1	1841.4	1872.1	1881.0	1880.4	1867.0	1870.8	1876.6
57.5°	1796.2	1809.9	1844.8	1901.0	1958.6	2020.9	2073.8	2113.4	2130.2	2155.6	2149.6
60°	1700.5	1722.7	1774.2	1856.6	1970.6	2100.7	2240.4	2376.6	2493.1	2580.8	2530.3
62.5°	1392.4	1421.2	1483.6	1589.3	1761.7	1970.1	2237.1	2559.5	2910.7	3122.5	2971.2
65°	871.3	901.1	964.6	1077.7	1279.5	1538.5	1901.0	2435.1	3091.2	3410.7	3102.7
67.5°	339.6	356.0	390.4	462.6	614.3	844.8	1208.5	1814.8	2599.5	2879.4	2551.2
70°	170.3	171.8	178.3	191.6	224.1	291.1	443.0	841.4	1490.7	1800.7	1437.2
72.5°	123.0	123.2	126.5	132.3	142.8	157.7	186.5	257.5	484.8	741.0	454.5
75°	94.2	95.3	97.1	100.3	105.9	113.4	123.7	148.4	183.9	213.2	179.3
77.5°	72.6	74.6	76.0	79.1	82.5	87.6	90.5	99.8	116.2	122.2	120.4
80°	55.2	57.1	60.0	62.4	64.9	67.3	66.1	70.4	79.1	84.0	81.3
82.5°	35.3	37.4	46.0	48.0	49.0	50.8	48.9	49.0	52.8	56.1	52.8
85°	22.6	24.1	29.0	31.8	32.0	33.1	32.2	30.5	30.5	27.8	31.3
87.5°	10.4	10.7	13.0	15.5	16.0	14.5	14.2	13.7	10.9	10.4	11.1
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°	644.7	644.7	644.7	644.7	644.7	644.7	644.7	644.7
2.5°	644.4	645.0	645.3	646.1	646.3	646.3	646.5	647.0
5°	649.5	650.3	650.6	651.6	651.9	651.6	652.2	652.3
7.5°	658.5	659.9	660.4	661.5	660.8	661.7	662.1	662.1
10°	671.9	673.2	673.5	674.5	674.0	674.5	674.5	674.0
12.5°	689.4	689.8	689.0	689.8	688.7	689.2	688.5	687.9
15°	709.0	708.1	706.2	706.2	704.7	705.0	704.7	704.5
17.5°	727.9	726.3	725.0	724.5	723.1	722.9	722.1	722.1
20°	748.7	748.0	747.1	746.0	744.8	743.3	743.2	743.6
22.5°	773.8	773.6	773.6	773.0	771.1	769.8	768.9	768.9
25°	807.4	805.1	805.1	804.8	804.0	803.2	801.6	802.4
27.5°	845.3	844.0	845.0	844.8	844.0	844.0	842.9	842.9
30°	892.0	891.5	893.2	891.7	889.1	888.9	887.7	886.4
32.5°	945.9	945.3	947.8	946.3	942.0	939.5	937.4	936.4
35°	1006.0	1006.2	1009.2	1008.1	1003.2	1001.7	997.9	997.5
37.5°	1071.6	1075.9	1080.9	1082.0	1078.1	1077.0	1072.9	1070.8
40°	1148.8	1154.3	1162.0	1163.9	1159.6	1158.9	1153.2	1150.3
42.5°	1230.9	1240.5	1250.1	1251.7	1247.4	1243.2	1237.9	1235.7
45°	1322.8	1334.3	1346.6	1350.0	1343.5	1338.5	1331.5	1331.5
47.5°	1425.7	1440.2	1454.3	1463.1	1457.2	1451.8	1443.5	1438.2
50°	1547.4	1567.2	1585.6	1594.6	1585.2	1575.2	1560.7	1556.0
52.5°	1700.0	1721.3	1737.3	1732.7	1718.2	1704.1	1688.3	1681.8
55°	1894.9	1902.0	1902.0	1883.8	1855.0	1831.3	1806.5	1798.1
57.5°	2138.4	2110.7	2068.0	2013.8	1945.8	1886.5	1846.5	1827.5
60°	2424.7	2291.3	2140.5	1992.5	1870.8	1770.5	1710.9	1683.8
62.5°	2615.5	2266.6	1964.5	1726.7	1551.6	1430.8	1348.5	1316.6
65°	2444.5	1890.3	1485.7	1201.4	1010.6	887.4	806.0	776.2
67.5°	1790.5	1184.4	791.1	567.0	415.5	331.5	298.1	284.1
70°	803.8	417.1	255.7	199.7	172.1	157.9	151.9	149.7
72.5°	242.4	175.3	147.9	133.4	122.4	115.5	110.5	110.0
75°	146.2	121.7	108.1	99.5	92.5	87.0	84.4	83.5
77.5°	102.1	89.4	83.1	76.8	71.5	67.3	64.9	63.1
80°	71.8	65.7	62.7	59.3	55.8	51.7	48.2	46.7
82.5°	48.0	46.7	46.7	44.6	41.6	37.9	30.9	29.4
85°	30.9	30.7	31.3	30.5	28.2	24.3	20.0	19.0
87.5°	14.5	14.7	16.3	16.0	15.5	12.8	10.2	9.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)