

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: P299399

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299399  
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: GLNA-AF-01-LED-E1-5NQ-7050-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II  
w/Spill Control OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5175.8 lumens  
Efficiency: N/A  
Efficacy: 117.6 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): 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

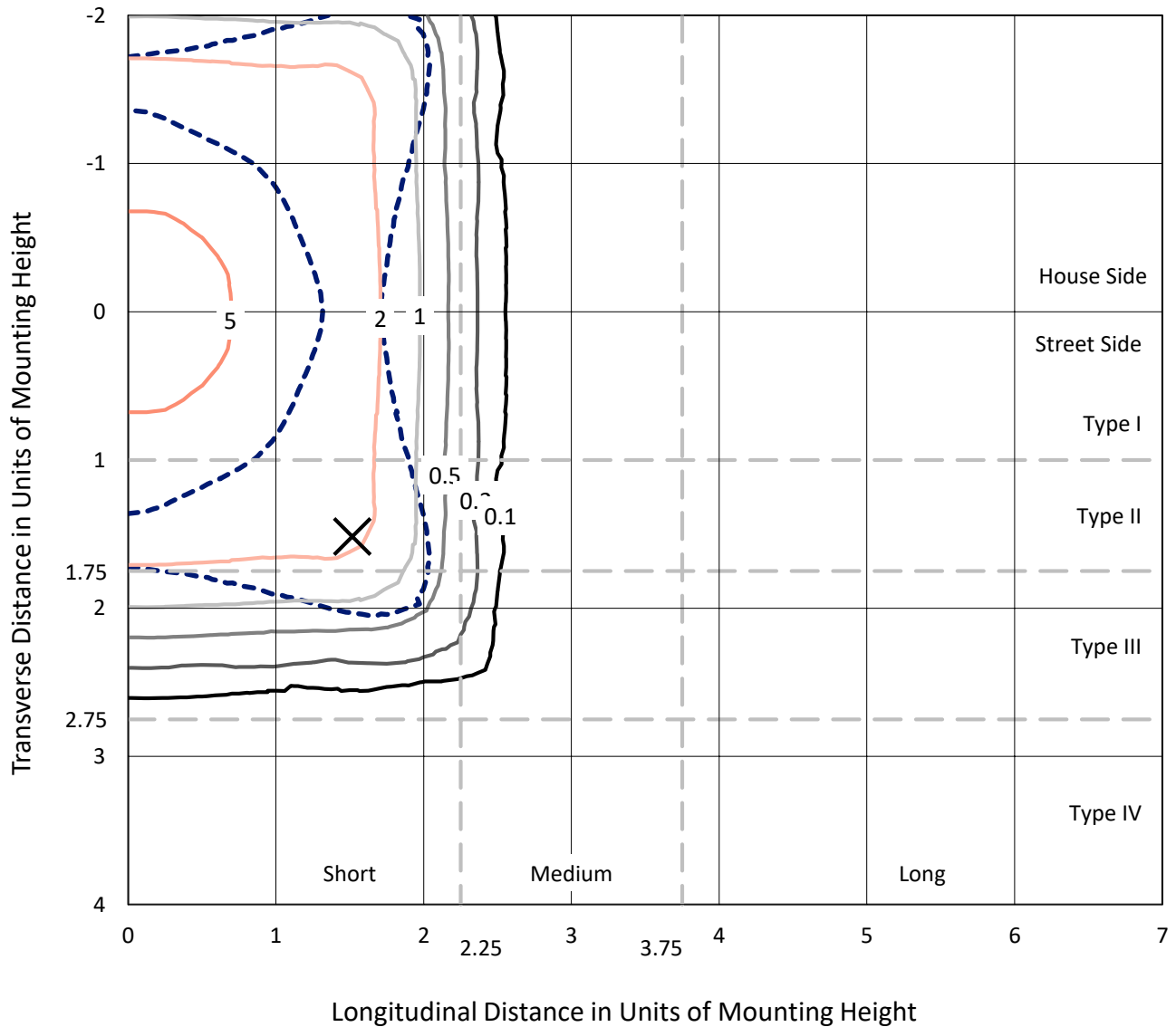


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### Iso-Footcandle Lines of Horizontal Illumination

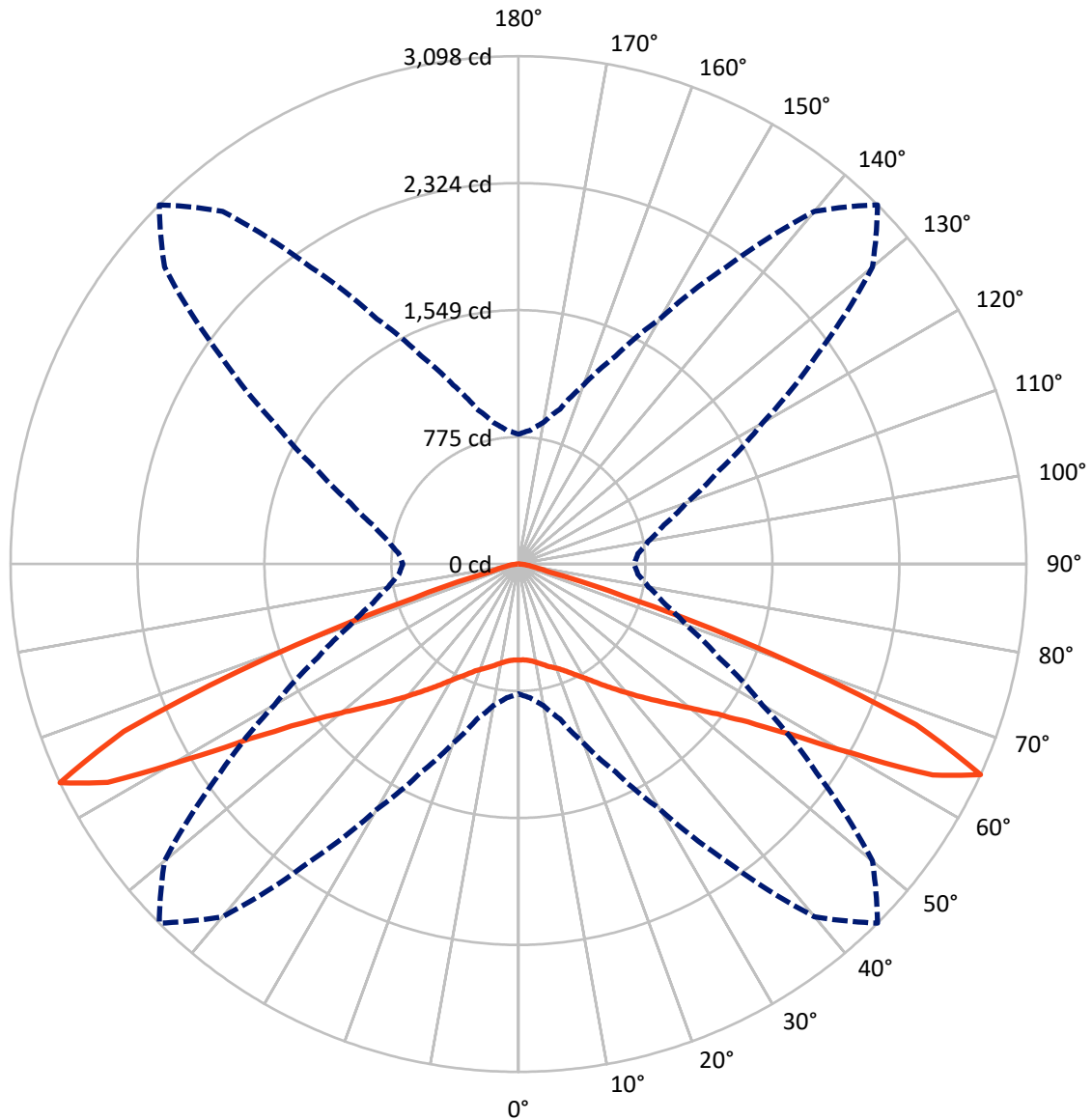
× Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	2587.9	0.0	2587.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2587.9	0.0	2587.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5175.8	0.0	5175.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.1	1.1
10°-20°	183.1	3.5
20°-30°	342.3	6.6
30°-40°	578.9	11.2
40°-50°	946.6	18.3
50°-60°	1505.3	29.1
60°-70°	1360.7	26.3
70°-80°	172.2	3.3
80°-90°	29.6	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°	5175.8	100.0
0°-180°	5175.8	100.0



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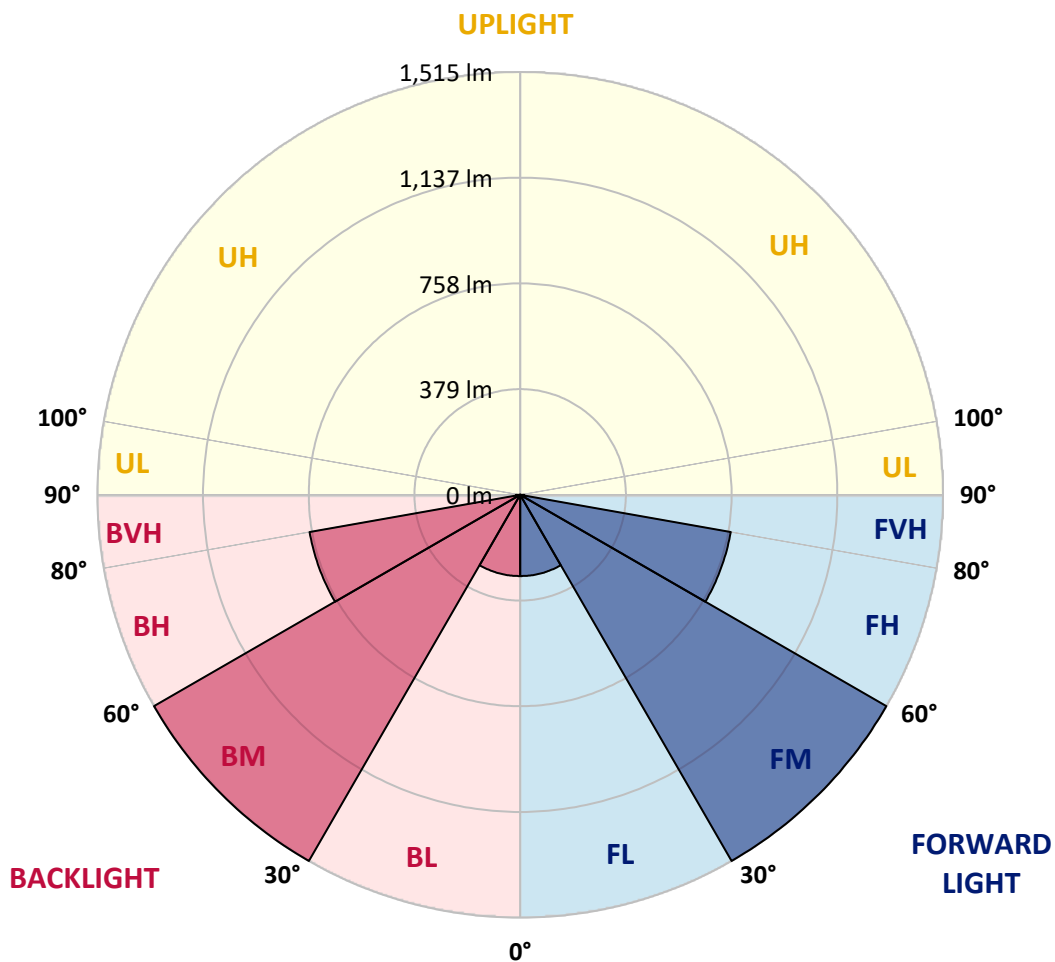
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	291.2	5.6			
FM (30°-60°)	1515.4	29.3			
FH (60°-80°)	766.4	14.8			G1/1800
FVH (80°-90°)	14.8	0.3			G1/100
BL (0°-30°)	291.2	5.6	B1/500		
BM (30°-60°)	1515.4	29.3	B2/2500		
BH (60°-80°)	766.4	14.8	B2/1000		G1/1800
BVH (80°-90°)	14.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	585.6	585.6	585.6	585.6	585.6	585.6	585.6	585.6	585.6	585.6	585.6
2.5°	586.1	586.6	587.1	586.6	587.1	586.4	585.9	586.6	585.9	585.2	585.6
5°	591.2	591.5	591.5	590.7	591.5	591.0	590.3	591.2	590.5	589.8	590.3
7.5°	599.7	600.7	600.0	599.2	599.7	599.2	598.7	599.0	598.7	598.0	598.3
10°	611.1	611.8	611.3	611.1	611.6	611.3	610.9	610.6	610.9	610.1	610.1
12.5°	624.9	624.7	624.4	624.7	625.4	625.4	625.2	625.4	625.9	626.1	625.6
15°	638.5	639.0	639.0	639.0	640.4	641.6	642.4	642.9	643.8	644.1	643.1
17.5°	655.5	655.5	655.2	655.5	656.9	658.9	659.6	660.6	661.5	662.2	661.0
20°	674.4	674.9	674.9	675.3	677.3	679.5	679.5	679.9	679.5	679.9	679.2
22.5°	697.4	698.9	698.9	699.1	701.0	703.7	703.0	703.7	702.5	703.5	702.5
25°	727.5	729.6	729.2	729.2	730.6	732.3	732.5	734.0	733.8	735.0	734.2
27.5°	761.4	764.8	765.8	765.5	766.5	768.2	768.7	770.4	769.4	770.4	769.9
30°	802.1	803.6	805.5	806.2	807.5	809.1	809.1	809.4	808.2	809.6	810.4
32.5°	844.3	847.0	848.9	853.3	855.4	856.7	856.4	856.9	855.7	857.6	859.1
35°	900.0	902.0	905.1	908.5	911.4	911.2	910.5	910.7	910.7	912.4	913.9
37.5°	967.2	967.7	971.8	976.6	978.1	976.6	972.3	971.3	969.1	971.3	973.7
40°	1038.2	1039.9	1048.2	1051.3	1052.0	1049.4	1043.1	1039.4	1034.6	1037.2	1040.6
42.5°	1112.6	1116.0	1123.5	1129.1	1131.5	1129.8	1121.1	1115.5	1109.2	1110.7	1114.1
45°	1195.1	1199.2	1209.8	1215.2	1219.8	1217.1	1208.6	1200.1	1190.2	1190.9	1196.3
47.5°	1287.2	1291.3	1305.1	1314.1	1316.5	1316.0	1306.6	1294.9	1281.4	1280.9	1285.5
50°	1390.4	1394.6	1411.8	1425.6	1432.6	1431.9	1420.7	1404.3	1387.8	1388.0	1393.8
52.5°	1491.3	1496.4	1514.3	1538.1	1551.9	1561.8	1555.0	1539.5	1519.4	1519.9	1525.2
55°	1585.8	1594.3	1614.9	1647.1	1672.8	1700.7	1708.7	1708.2	1696.1	1699.5	1704.8
57.5°	1631.6	1644.2	1676.0	1726.9	1779.3	1836.0	1884.0	1919.8	1935.1	1958.1	1952.8
60°	1544.8	1565.0	1611.7	1686.7	1790.2	1908.5	2035.2	2159.1	2264.8	2344.5	2298.7
62.5°	1264.9	1291.0	1347.8	1443.8	1600.4	1789.7	2032.3	2325.1	2644.2	2836.6	2699.2
65°	791.5	818.6	876.3	979.1	1162.3	1397.7	1726.9	2212.2	2808.3	3098.4	2818.7
67.5°	308.6	323.4	354.6	420.3	558.0	767.5	1097.9	1648.6	2361.5	2615.8	2317.6
70°	154.7	156.1	161.9	174.0	203.6	264.5	402.4	764.3	1354.3	1635.7	1305.6
72.5°	111.7	112.0	114.9	120.2	129.7	143.3	169.4	233.9	440.4	673.2	412.8
75°	85.6	86.5	88.2	91.1	96.2	103.0	112.5	134.8	167.0	193.7	162.9
77.5°	65.9	67.9	69.1	71.8	74.9	79.5	82.2	90.7	105.4	111.0	109.3
80°	50.2	51.9	54.5	56.7	58.9	61.1	60.1	64.0	71.8	76.4	73.9
82.5°	32.0	33.9	41.7	43.6	44.6	46.1	44.4	44.6	48.0	50.9	48.0
85°	20.6	21.8	26.4	28.8	29.1	30.1	29.3	27.6	27.6	25.2	28.4
87.5°	9.5	9.7	11.9	14.1	14.5	13.1	12.8	12.4	9.9	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°	585.6	585.6	585.6	585.6	585.6	585.6	585.6	585.6
2.5°	585.4	585.9	586.1	586.9	587.1	587.1	587.3	587.8
5°	590.0	590.7	591.0	592.0	592.2	592.0	592.4	592.7
7.5°	598.3	599.5	600.0	600.9	600.2	601.2	601.4	601.4
10°	610.4	611.6	611.8	612.8	612.3	612.8	612.8	612.3
12.5°	626.4	626.6	625.9	626.6	625.6	626.1	625.4	624.9
15°	644.1	643.3	641.6	641.6	640.2	640.4	640.2	639.9
17.5°	661.3	659.8	658.6	658.1	656.9	656.7	655.9	655.9
20°	680.2	679.5	678.7	677.8	676.6	675.3	675.1	675.6
22.5°	703.0	702.7	702.7	702.2	700.5	699.3	698.6	698.6
25°	733.5	731.3	731.3	731.1	730.4	729.6	728.2	728.9
27.5°	767.9	766.7	767.7	767.5	766.7	766.7	765.8	765.8
30°	810.4	809.9	811.3	810.1	807.7	807.5	806.5	805.3
32.5°	859.3	858.8	861.0	859.6	855.7	853.5	851.6	850.6
35°	913.9	914.1	916.8	915.8	911.4	910.0	906.6	906.1
37.5°	973.5	977.4	982.0	983.0	979.3	978.3	974.7	972.8
40°	1043.6	1048.6	1055.7	1057.4	1053.5	1052.8	1047.7	1045.0
42.5°	1118.2	1126.9	1135.7	1137.1	1133.2	1129.4	1124.5	1122.6
45°	1201.6	1212.0	1223.4	1226.3	1220.5	1215.9	1209.6	1209.6
47.5°	1295.2	1308.3	1321.1	1329.1	1323.8	1318.9	1311.4	1306.6
50°	1405.7	1423.6	1440.4	1448.6	1440.1	1430.9	1417.8	1413.5
52.5°	1544.4	1563.8	1578.3	1573.9	1560.8	1548.0	1533.7	1527.9
55°	1721.3	1727.9	1727.9	1711.4	1685.2	1663.6	1641.1	1633.6
57.5°	1942.6	1917.4	1878.6	1829.4	1767.6	1713.8	1677.4	1660.2
60°	2202.7	2081.5	1944.6	1810.0	1699.5	1608.4	1554.3	1529.6
62.5°	2376.1	2059.0	1784.6	1568.6	1409.6	1299.8	1225.1	1196.0
65°	2220.7	1717.2	1349.7	1091.3	918.0	806.2	732.3	705.2
67.5°	1626.5	1076.0	718.7	515.1	377.4	301.1	270.8	258.2
70°	730.1	378.9	232.2	181.3	156.4	143.5	137.9	136.0
72.5°	220.1	159.3	134.3	121.2	111.3	105.0	100.4	99.9
75°	132.8	110.5	98.2	90.4	84.1	79.0	76.6	75.9
77.5°	92.8	81.2	75.4	69.8	65.0	61.1	58.9	57.2
80°	65.2	59.6	57.0	53.8	50.7	47.0	43.9	42.4
82.5°	43.6	42.4	42.4	40.5	37.8	34.4	28.1	26.7
85°	28.1	27.9	28.4	27.6	25.7	22.1	18.2	17.2
87.5°	13.1	13.3	14.8	14.5	14.1	11.6	9.2	8.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)