

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: P200069

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200069  
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-800  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 4000K, 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: 5419.6 lumens  
Efficiency: N/A  
Efficacy: 123.2 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

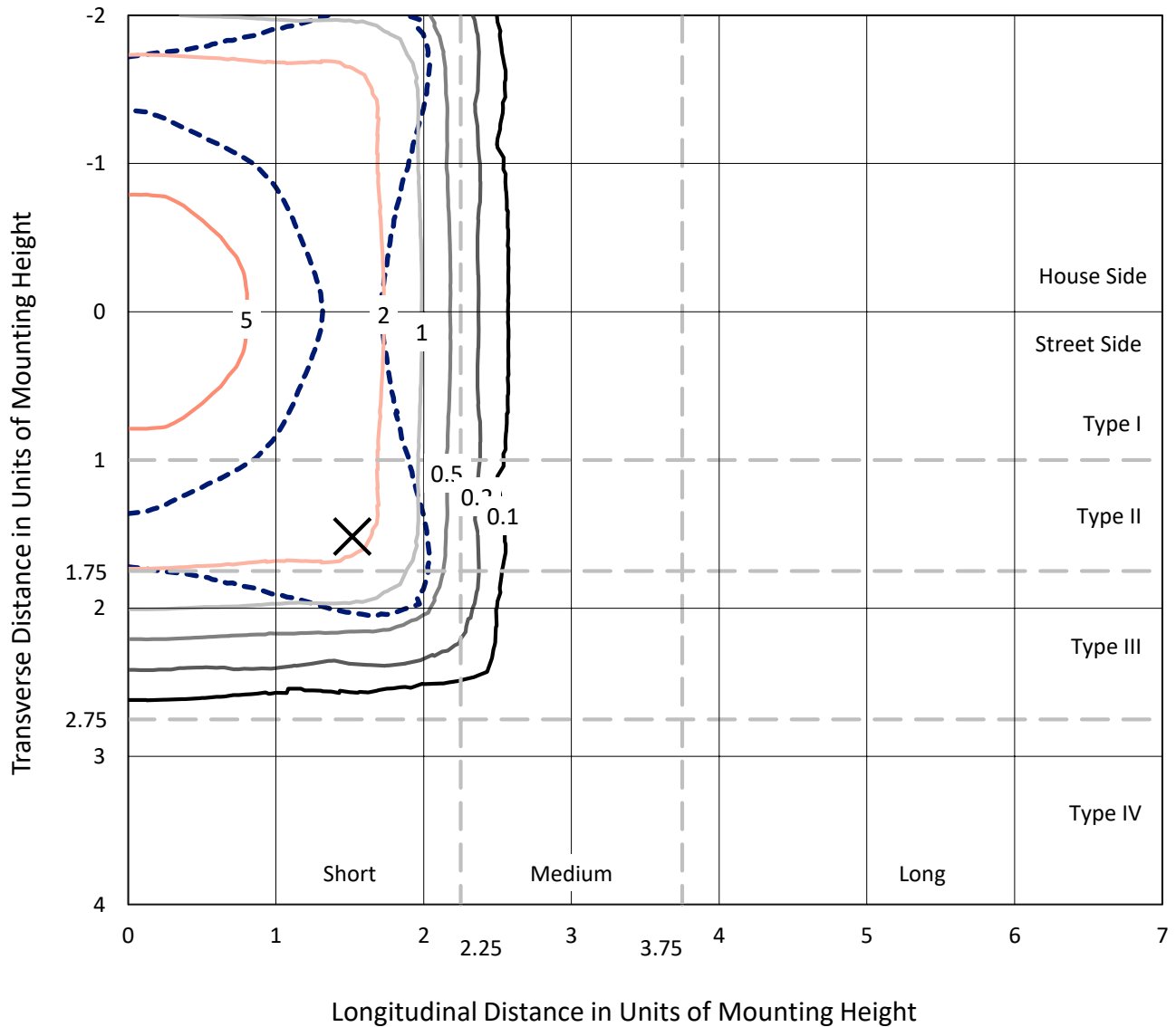
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

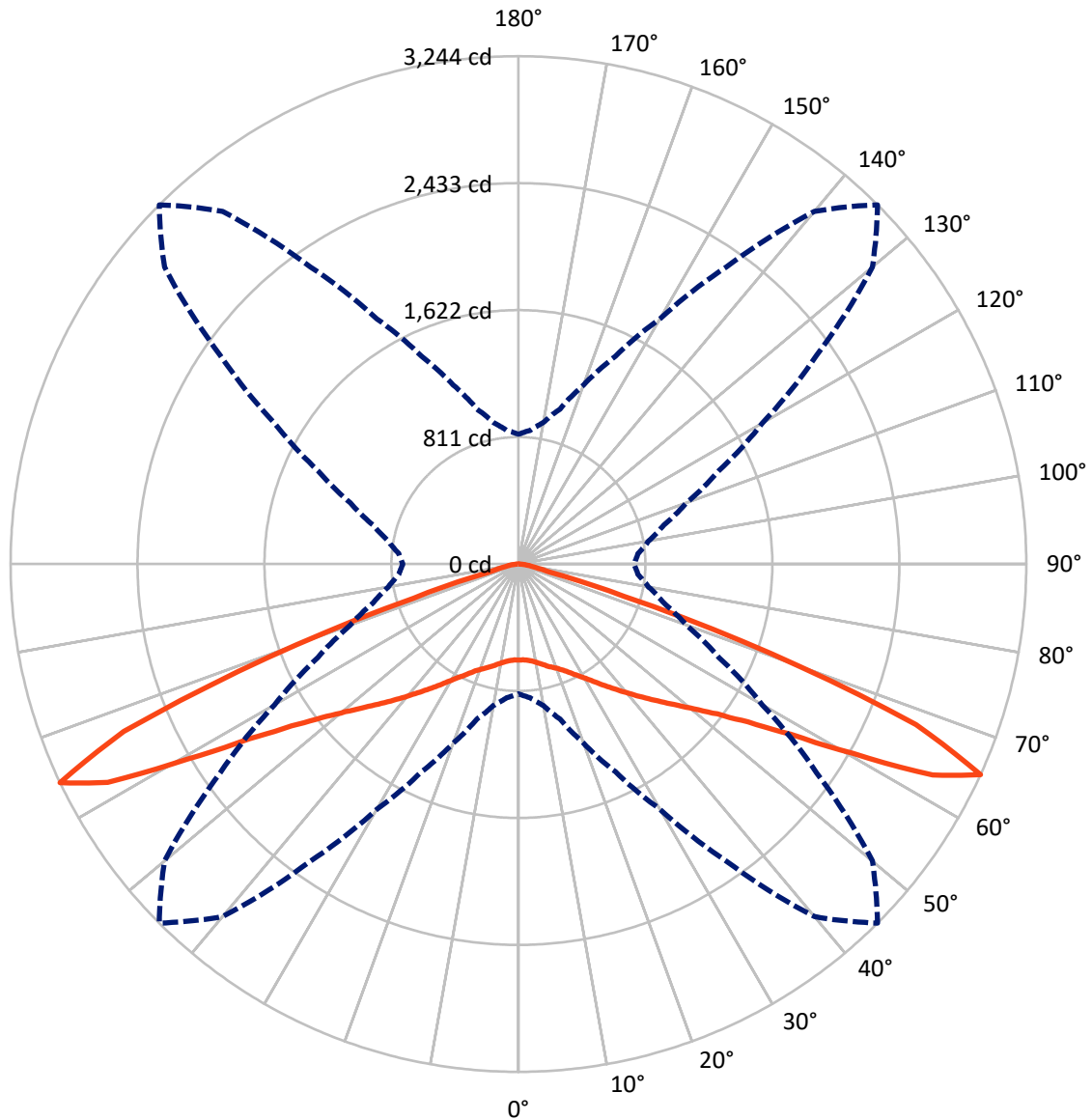
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.1 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	2709.8	0.0	2709.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2709.8	0.0	2709.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5419.6	0.0	5419.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.8	1.1
10°-20°	191.7	3.5
20°-30°	358.4	6.6
30°-40°	606.2	11.2
40°-50°	991.2	18.3
50°-60°	1576.2	29.1
60°-70°	1424.8	26.3
70°-80°	180.3	3.3
80°-90°	31.0	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°	5419.6	100.0
0°-180°	5419.6	100.0



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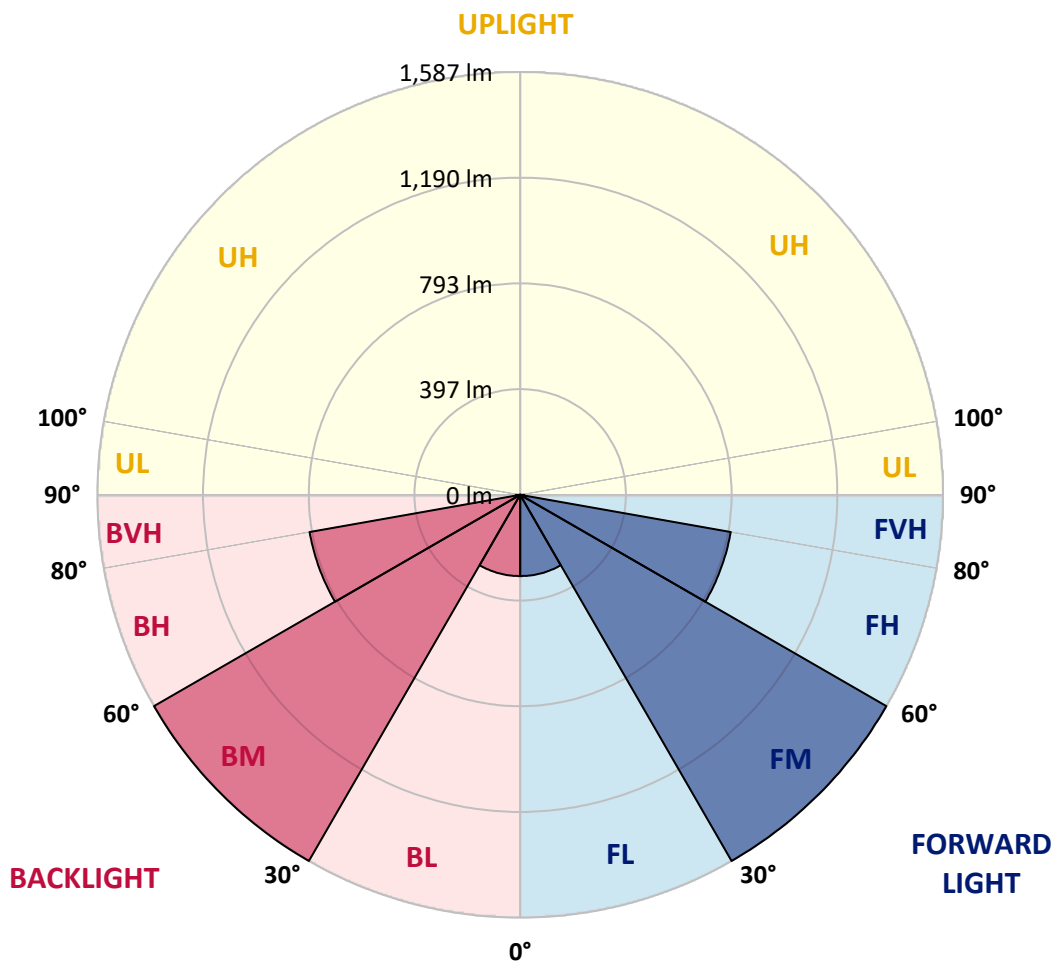
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	304.9	5.6			
FM	(30°-60°)	1586.8	29.3			
FH	(60°-80°)	802.5	14.8			G1/1800
FVH	(80°-90°)	15.5	0.3			G1/100
BL	(0°-30°)	304.9	5.6	B1/500		
BM	(30°-60°)	1586.8	29.3	B2/2500		
BH	(60°-80°)	802.5	14.8	B2/1000		G1/1800
BVH	(80°-90°)	15.5	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°	613.3	613.3	613.3	613.3	613.3	613.3	613.3	613.3	613.3	613.3	613.3
2.5°	613.8	614.3	614.8	614.3	614.8	614.0	613.5	614.3	613.5	612.7	613.3
5°	619.1	619.3	619.3	618.6	619.3	618.8	618.1	619.1	618.3	617.6	618.1
7.5°	628.0	629.0	628.2	627.5	628.0	627.5	627.0	627.2	627.0	626.1	626.5
10°	639.9	640.7	640.2	639.9	640.4	640.2	639.7	639.3	639.7	638.8	638.8
12.5°	654.4	654.1	653.9	654.1	654.9	654.9	654.6	654.9	655.4	655.6	655.1
15°	668.6	669.1	669.1	669.1	670.5	671.9	672.6	673.1	674.1	674.4	673.4
17.5°	686.3	686.3	686.1	686.3	687.8	689.9	690.6	691.6	692.6	693.5	692.1
20°	706.1	706.7	706.7	707.2	709.2	711.5	711.5	712.0	711.5	712.0	711.2
22.5°	730.3	731.7	731.7	732.0	734.1	736.8	736.1	736.8	735.6	736.6	735.6
25°	761.7	764.0	763.5	763.5	765.1	766.8	767.0	768.5	768.3	769.6	768.8
27.5°	797.3	800.8	801.8	801.6	802.6	804.3	804.9	806.6	805.7	806.6	806.1
30°	839.8	841.4	843.4	844.2	845.5	847.2	847.2	847.5	846.3	847.7	848.5
32.5°	884.0	886.9	888.8	893.4	895.7	897.0	896.7	897.2	896.0	898.0	899.6
35°	942.4	944.5	947.8	951.3	954.4	954.1	953.4	953.6	953.6	955.3	956.9
37.5°	1012.7	1013.2	1017.5	1022.6	1024.2	1022.6	1018.0	1017.0	1014.8	1017.0	1019.6
40°	1087.1	1088.9	1097.5	1100.8	1101.6	1098.8	1092.2	1088.4	1083.3	1086.1	1089.6
42.5°	1165.0	1168.6	1176.5	1182.3	1184.9	1183.0	1173.9	1168.1	1161.5	1163.0	1166.6
45°	1251.4	1255.7	1266.8	1272.4	1277.3	1274.4	1265.6	1256.7	1246.3	1247.0	1252.6
47.5°	1347.7	1352.1	1366.6	1376.0	1378.5	1378.0	1368.1	1355.9	1341.7	1341.2	1346.0
50°	1455.9	1460.3	1478.3	1492.7	1500.1	1499.3	1487.7	1470.4	1453.1	1453.4	1459.4
52.5°	1561.5	1566.9	1585.6	1610.5	1625.0	1635.4	1628.2	1612.0	1591.0	1591.4	1597.0
55°	1660.5	1669.4	1690.9	1724.7	1751.6	1780.8	1789.1	1788.6	1775.9	1779.5	1785.2
57.5°	1708.4	1721.6	1754.9	1808.2	1863.0	1922.4	1972.7	2010.3	2026.3	2050.4	2044.8
60°	1617.6	1638.7	1687.7	1766.1	1874.5	1998.3	2131.1	2260.8	2371.4	2455.0	2407.0
62.5°	1324.4	1351.8	1411.3	1511.7	1675.7	1873.9	2128.0	2434.6	2768.7	2970.2	2826.3
65°	828.7	857.1	917.6	1025.2	1217.1	1463.5	1808.2	2316.4	2940.5	3244.3	2951.4
67.5°	323.2	338.6	371.3	440.1	584.3	803.6	1149.6	1726.2	2472.7	2739.0	2426.7
70°	161.9	163.5	169.5	182.3	213.2	276.9	421.4	800.3	1418.1	1712.8	1367.1
72.5°	117.0	117.2	120.3	125.9	135.7	150.0	177.4	244.9	461.1	704.8	432.3
75°	89.6	90.6	92.4	95.4	100.8	107.9	117.7	141.2	174.9	202.9	170.5
77.5°	69.0	71.1	72.3	75.1	78.5	83.3	86.0	94.9	110.4	116.2	114.5
80°	52.6	54.3	57.1	59.4	61.7	63.9	62.9	67.0	75.1	80.0	77.4
82.5°	33.6	35.5	43.7	45.7	46.7	48.2	46.4	46.7	50.2	53.3	50.2
85°	21.6	22.8	27.6	30.2	30.5	31.5	30.7	28.9	28.9	26.4	29.7
87.5°	9.9	10.1	12.5	14.7	15.2	13.7	13.5	13.0	10.4	9.9	10.6
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°	613.3	613.3	613.3	613.3	613.3	613.3	613.3	613.3
2.5°	613.0	613.5	613.8	614.5	614.8	614.8	615.0	615.5
5°	617.8	618.6	618.8	619.8	620.1	619.8	620.3	620.6
7.5°	626.5	627.7	628.2	629.2	628.5	629.5	629.7	629.7
10°	639.1	640.4	640.7	641.7	641.2	641.7	641.7	641.2
12.5°	655.9	656.1	655.4	656.1	655.1	655.6	654.9	654.4
15°	674.4	673.6	671.9	671.9	670.3	670.5	670.3	670.1
17.5°	692.4	690.9	689.7	689.2	687.8	687.6	686.8	686.8
20°	712.2	711.5	710.7	709.7	708.4	707.2	706.9	707.4
22.5°	736.1	735.8	735.8	735.3	733.6	732.2	731.5	731.5
25°	768.0	765.8	765.8	765.5	764.8	764.0	762.5	763.2
27.5°	804.1	802.8	803.8	803.6	802.8	802.8	801.8	801.8
30°	848.5	848.0	849.6	848.2	845.8	845.5	844.4	843.2
32.5°	899.8	899.3	901.5	900.1	896.0	893.8	891.7	890.7
35°	956.9	957.2	959.9	958.9	954.4	952.9	949.3	948.8
37.5°	1019.4	1023.4	1028.3	1029.2	1025.4	1024.4	1020.6	1018.6
40°	1092.7	1098.0	1105.4	1107.1	1103.2	1102.3	1097.0	1094.3
42.5°	1170.9	1180.0	1189.2	1190.7	1186.6	1182.5	1177.5	1175.5
45°	1258.2	1269.1	1281.0	1284.1	1278.0	1273.2	1266.5	1266.5
47.5°	1356.1	1369.8	1383.3	1391.7	1386.1	1381.1	1373.2	1368.1
50°	1471.9	1490.6	1508.2	1516.8	1507.9	1498.3	1484.6	1480.0
52.5°	1617.1	1637.4	1652.6	1648.1	1634.4	1620.9	1605.9	1599.8
55°	1802.3	1809.2	1809.2	1792.0	1764.6	1742.0	1718.4	1710.5
57.5°	2034.1	2007.7	1967.1	1915.6	1850.8	1794.5	1756.4	1738.4
60°	2306.4	2179.6	2036.2	1895.3	1779.5	1684.1	1627.5	1601.6
62.5°	2487.9	2156.0	1868.6	1642.4	1476.0	1360.9	1282.8	1252.4
65°	2325.3	1798.0	1413.3	1142.7	961.3	844.2	766.8	738.4
67.5°	1703.1	1126.7	752.6	539.4	395.2	315.3	283.6	270.4
70°	764.6	396.7	243.2	189.9	163.7	150.3	144.4	142.4
72.5°	230.5	166.7	140.7	126.9	116.5	109.9	105.1	104.5
75°	139.1	115.7	102.8	94.7	88.1	82.8	80.2	79.5
77.5°	97.2	85.0	79.0	73.1	68.0	63.9	61.7	59.9
80°	68.2	62.4	59.6	56.4	53.1	49.2	45.9	44.4
82.5°	45.7	44.4	44.4	42.4	39.6	36.0	29.5	27.9
85°	29.5	29.2	29.7	28.9	26.9	23.1	19.0	18.0
87.5°	13.7	13.9	15.4	15.2	14.7	12.2	9.6	9.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)