

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: P200543

Luminaire Tested: **GWC-AF-01-LED-E1-5MQ-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200543  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)  
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-E1-5MQ-8030  
Description: GALLEON WALL LUMINAIRE  
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5449 lumens  
Efficiency: N/A  
Efficacy: 92.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G1

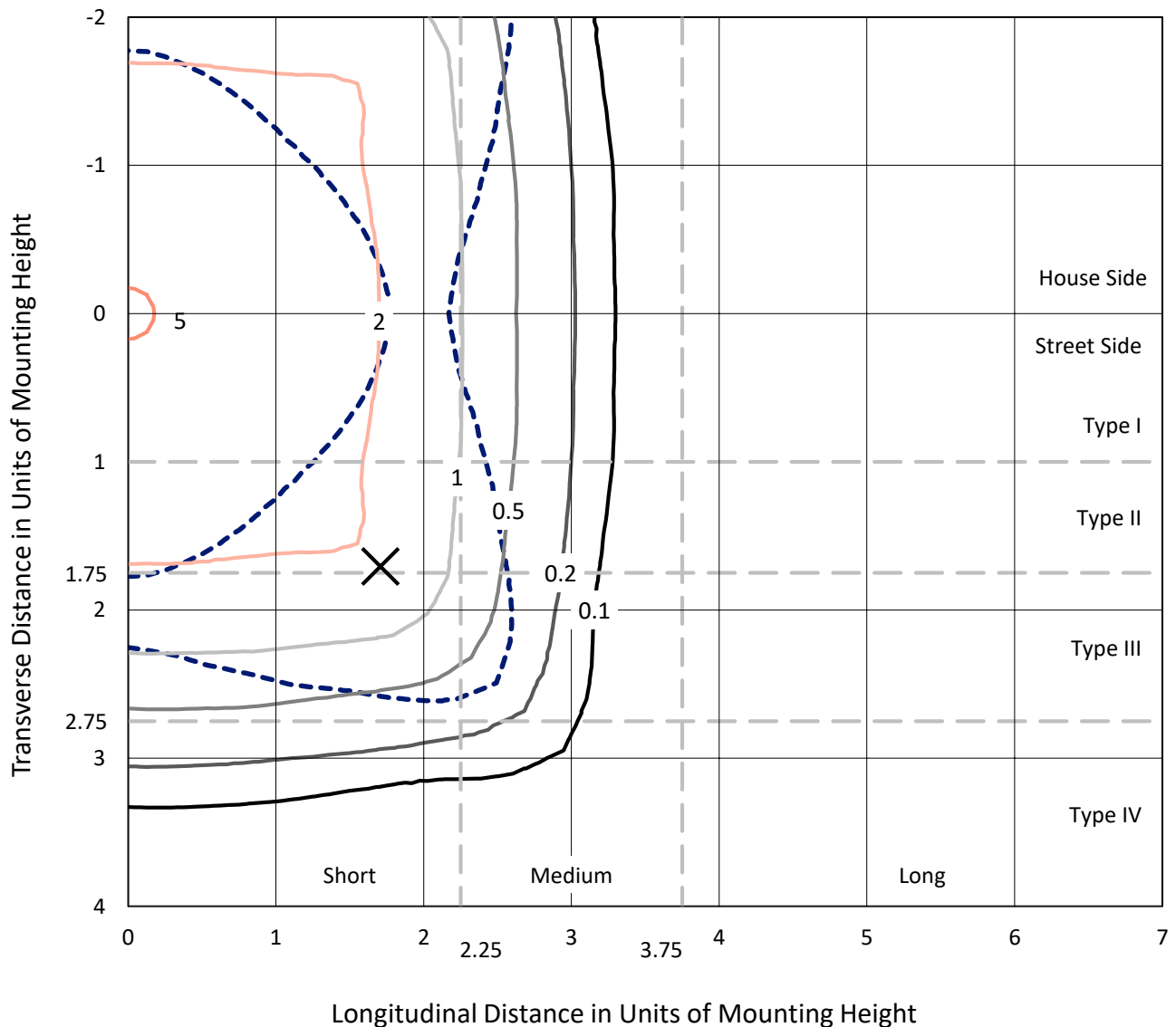
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

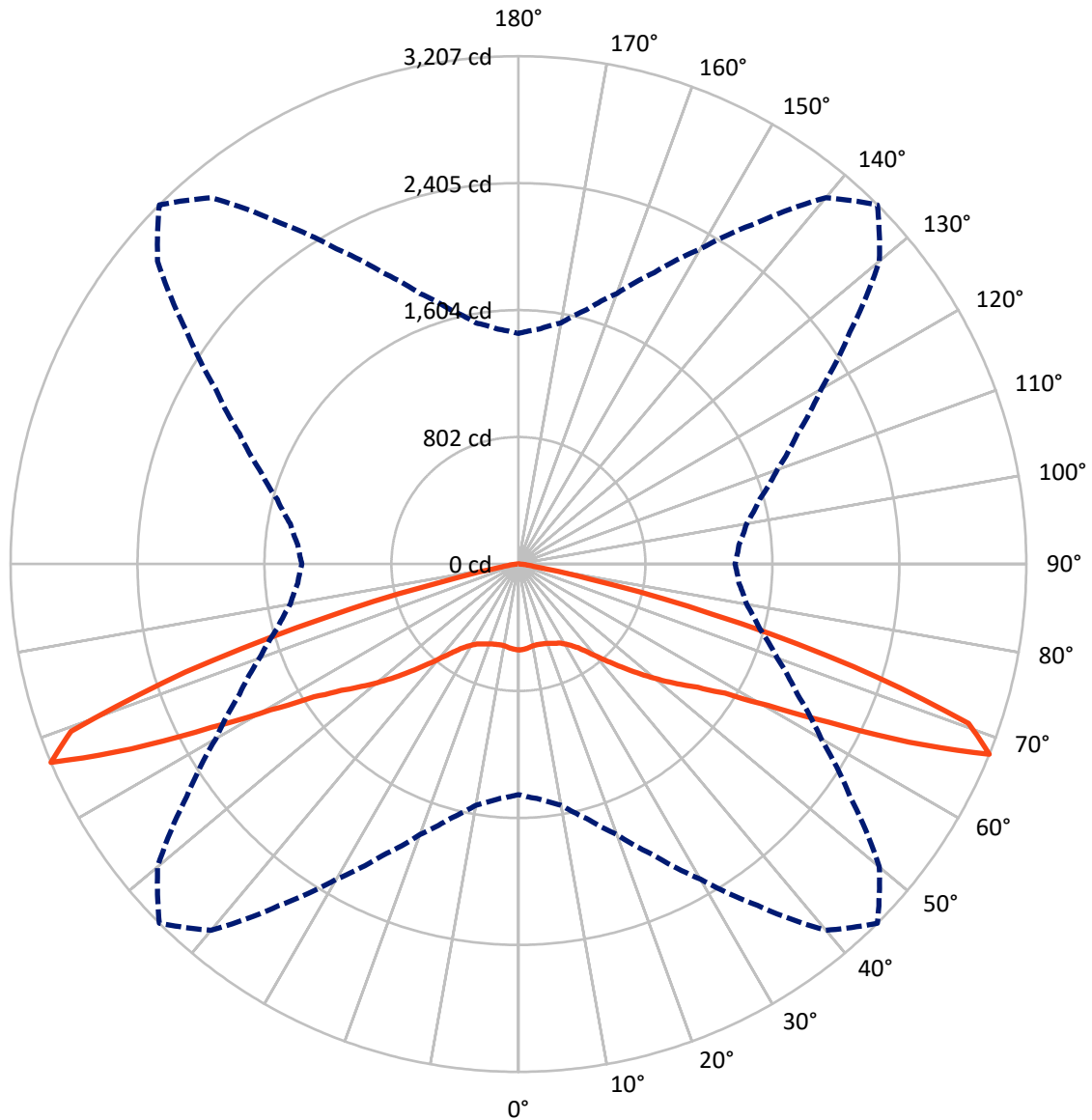
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.4 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2724.5	0.0	2724.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2724.5	0.0	2724.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5449.0	0.0	5449.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.8	0.9
10°-20°	147.5	2.7
20°-30°	250.7	4.6
30°-40°	409.8	7.5
40°-50°	731.6	13.4
50°-60°	1233.6	22.6
60°-70°	1914.3	35.1
70°-80°	672.6	12.3
80°-90°	38.0	0.7
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°	5449.0	100.0
0°-180°	5449.0	100.0



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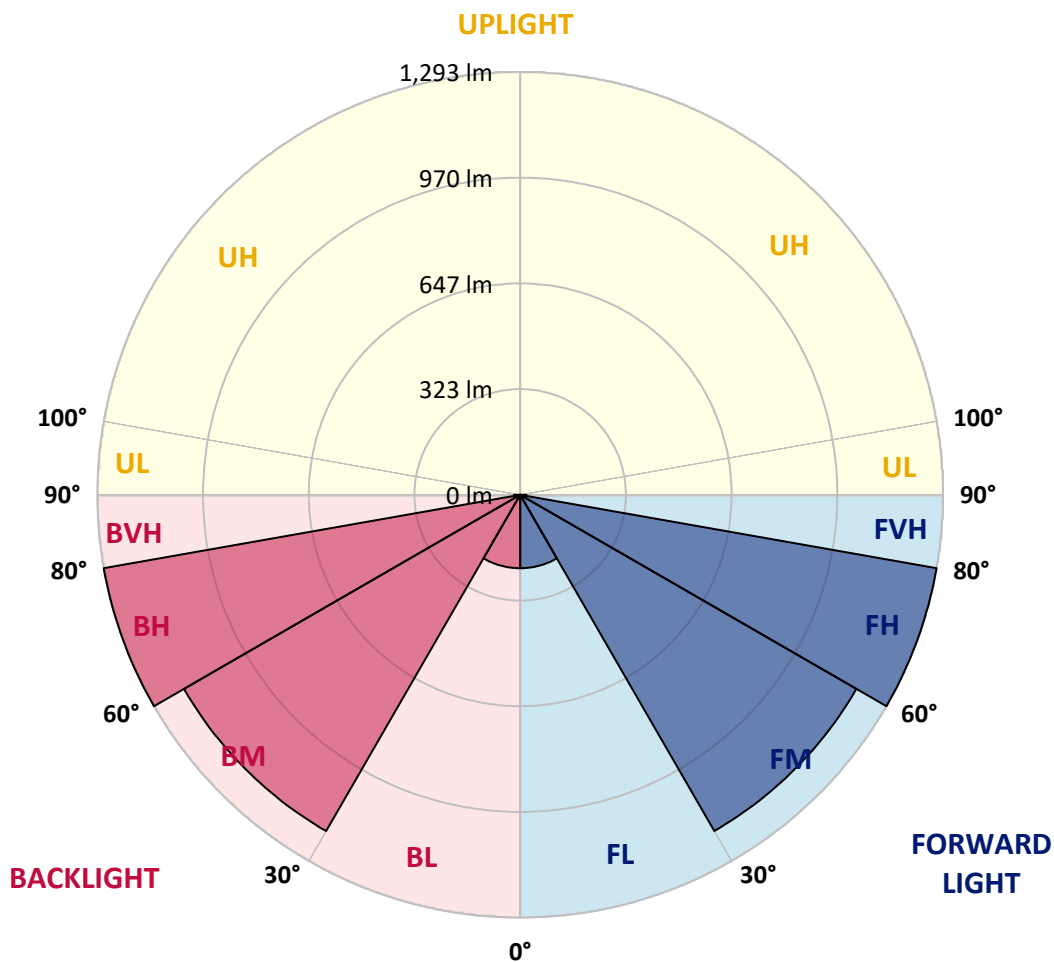
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	224.5	4.1			
FM	(30°-60°)	1187.5	21.8			
FH	(60°-80°)	1293.5	23.7			G1/1800
FVH	(80°-90°)	19.0	0.3			G1/100
BL	(0°-30°)	224.5	4.1	B1/500		
BM	(30°-60°)	1187.5	21.8	B2/2500		
BH	(60°-80°)	1293.5	23.7	B3/2500		G1/1800
BVH	(80°-90°)	19.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	543.0	543.0	543.0	543.0	543.0	543.0	543.0	543.0	543.0	543.0	543.0
2.5°	541.0	541.5	541.5	541.5	541.3	541.3	540.8	541.3	541.0	540.3	540.5
5°	536.5	537.0	537.0	536.8	537.5	537.3	536.5	537.0	536.8	536.3	536.5
7.5°	530.0	530.7	530.7	530.5	531.2	531.0	530.5	530.7	530.7	530.0	530.0
10°	522.7	523.2	523.2	523.0	524.2	524.2	524.0	524.7	525.0	524.2	523.7
12.5°	516.0	516.7	516.7	517.7	519.0	519.5	520.7	521.7	522.7	522.5	521.5
15°	511.9	512.4	513.4	514.7	516.7	518.5	520.5	522.7	524.7	525.2	523.7
17.5°	509.4	510.2	511.7	513.4	516.2	519.2	522.2	525.2	528.0	529.0	527.2
20°	508.7	509.2	510.7	513.7	517.5	522.0	526.2	529.7	533.5	534.7	533.5
22.5°	510.2	511.2	512.9	516.5	521.5	527.2	532.2	537.0	541.8	544.0	542.3
25°	517.0	518.0	520.2	524.7	530.2	536.3	542.0	547.5	551.8	554.0	552.8
27.5°	529.5	530.7	533.5	538.0	544.0	550.5	556.8	561.3	564.8	565.6	564.1
30°	548.3	551.0	554.3	559.3	566.3	571.8	578.1	582.1	586.4	586.4	585.1
32.5°	577.6	580.4	583.9	588.6	594.1	600.1	605.7	609.2	613.7	613.9	610.9
35°	621.4	622.7	625.7	628.7	633.7	639.0	643.8	646.0	649.8	650.0	647.3
37.5°	679.3	679.6	681.6	682.6	687.1	692.9	697.4	698.9	702.4	701.9	699.1
40°	746.7	748.0	748.7	750.2	755.0	760.5	765.3	766.0	769.8	769.0	765.5
42.5°	824.7	825.2	829.4	831.7	836.2	839.0	845.0	845.7	850.2	848.2	844.2
45°	912.1	916.6	920.6	925.2	929.9	933.2	937.9	936.9	939.9	936.9	934.7
47.5°	1004.1	1007.3	1016.4	1023.4	1031.2	1033.9	1040.7	1037.7	1040.7	1036.4	1035.7
50°	1105.3	1111.1	1118.9	1126.9	1135.1	1139.7	1148.4	1144.7	1148.7	1144.7	1142.4
52.5°	1205.1	1206.6	1223.6	1235.4	1246.9	1252.2	1257.4	1255.7	1255.9	1255.7	1253.4
55°	1299.8	1303.3	1320.3	1336.4	1356.4	1371.2	1380.2	1379.2	1377.0	1374.7	1370.9
57.5°	1406.5	1410.0	1429.6	1449.4	1472.2	1493.2	1511.5	1530.3	1537.6	1539.6	1531.3
60°	1550.9	1550.6	1576.7	1600.7	1633.3	1664.6	1704.7	1745.6	1792.4	1814.2	1785.4
62.5°	1697.7	1703.7	1741.3	1783.9	1851.1	1916.5	1990.4	2063.1	2137.2	2197.6	2133.5
65°	1680.2	1703.2	1759.1	1855.6	1979.6	2127.0	2286.3	2455.0	2607.3	2712.1	2594.5
67.5°	1456.1	1489.0	1545.9	1663.1	1818.2	2030.7	2298.4	2631.9	3019.5	3207.0	2974.7
70°	1055.5	1092.5	1152.2	1266.7	1420.3	1622.3	1913.0	2313.4	2826.6	3015.5	2759.7
72.5°	525.2	545.3	582.1	655.0	771.3	935.2	1198.8	1583.7	2037.8	2211.2	1977.4
75°	178.4	187.7	194.0	217.8	254.6	319.0	450.0	692.4	1056.2	1266.2	1041.2
77.5°	103.0	103.2	107.5	111.8	118.0	125.0	142.6	187.2	323.8	459.8	335.0
80°	66.7	66.4	69.9	73.2	77.4	80.9	81.9	86.7	100.0	118.5	106.0
82.5°	34.6	38.8	46.6	50.9	58.9	60.4	58.4	56.6	59.9	62.1	63.6
85°	19.0	16.5	24.8	32.1	35.6	36.1	36.1	34.1	35.3	34.6	37.6
87.5°	8.8	8.0	9.8	15.8	16.8	14.3	15.0	13.3	9.5	9.3	10.5
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°	543.0	543.0	543.0	543.0	543.0	543.0	543.0	543.0
2.5°	540.5	540.8	540.8	541.5	541.8	542.3	542.8	543.0
5°	536.3	537.0	536.5	537.3	537.3	537.8	537.8	538.0
7.5°	530.0	530.7	530.7	530.7	530.5	531.2	531.2	531.2
10°	523.5	524.0	523.7	523.2	522.7	523.5	523.2	523.0
12.5°	521.5	520.2	519.2	518.7	517.7	518.0	517.2	517.2
15°	522.7	520.5	518.7	518.0	517.0	516.5	516.0	516.2
17.5°	526.0	523.2	521.0	519.7	518.5	517.7	516.7	517.0
20°	531.7	528.5	525.2	522.7	520.5	519.2	518.5	518.2
22.5°	540.3	535.5	530.7	527.0	524.0	522.2	521.5	521.0
25°	550.0	544.8	539.3	535.0	532.0	529.7	528.2	528.2
27.5°	562.3	558.1	553.0	548.0	545.3	543.0	542.0	541.5
30°	582.9	578.8	574.8	570.1	566.6	564.3	562.6	561.1
32.5°	609.2	605.9	602.7	599.1	595.9	592.9	590.1	588.9
35°	646.3	643.8	641.5	637.5	636.2	634.5	633.0	631.7
37.5°	697.4	696.4	696.4	692.1	691.1	690.4	688.9	689.1
40°	764.5	765.5	764.3	762.8	762.0	760.0	760.0	761.8
42.5°	844.0	844.7	847.5	845.0	847.7	845.2	843.7	845.0
45°	936.2	938.9	944.5	941.9	943.7	939.4	934.2	934.4
47.5°	1039.7	1042.2	1044.4	1042.7	1042.9	1035.9	1028.9	1027.1
50°	1147.2	1148.2	1149.4	1146.9	1147.4	1139.7	1131.6	1131.9
52.5°	1253.4	1258.2	1263.2	1256.4	1254.9	1246.2	1234.9	1230.4
55°	1375.0	1381.7	1376.0	1364.2	1352.4	1340.6	1325.8	1323.3
57.5°	1524.8	1513.3	1495.2	1472.9	1456.6	1440.1	1425.1	1418.8
60°	1733.3	1689.9	1657.4	1624.3	1603.5	1583.2	1563.4	1560.4
62.5°	2028.0	1953.1	1888.2	1819.7	1763.9	1720.3	1685.4	1675.7
65°	2397.3	2220.2	2066.6	1923.2	1798.7	1704.7	1645.6	1619.5
67.5°	2556.2	2206.4	1943.0	1739.6	1576.7	1462.9	1399.0	1367.2
70°	2246.2	1829.8	1543.3	1339.6	1191.3	1070.0	1012.1	978.0
72.5°	1545.4	1164.0	920.4	751.3	632.7	531.2	491.1	488.1
75°	693.9	459.6	316.7	244.1	205.5	178.7	170.4	164.1
77.5°	194.2	143.6	128.0	119.8	111.8	102.5	99.0	99.7
80°	94.5	89.2	85.7	80.4	73.2	65.4	61.9	63.4
82.5°	62.6	61.9	64.1	60.4	49.9	42.3	35.6	32.6
85°	38.1	38.6	39.3	39.6	33.6	23.6	16.0	18.0
87.5°	15.0	17.3	18.8	19.5	18.3	11.3	9.0	9.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)