

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: P200231

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200231
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-7050
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 5000K, 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: 6558 lumens
Efficiency: N/A
Efficacy: 111.2 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): 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

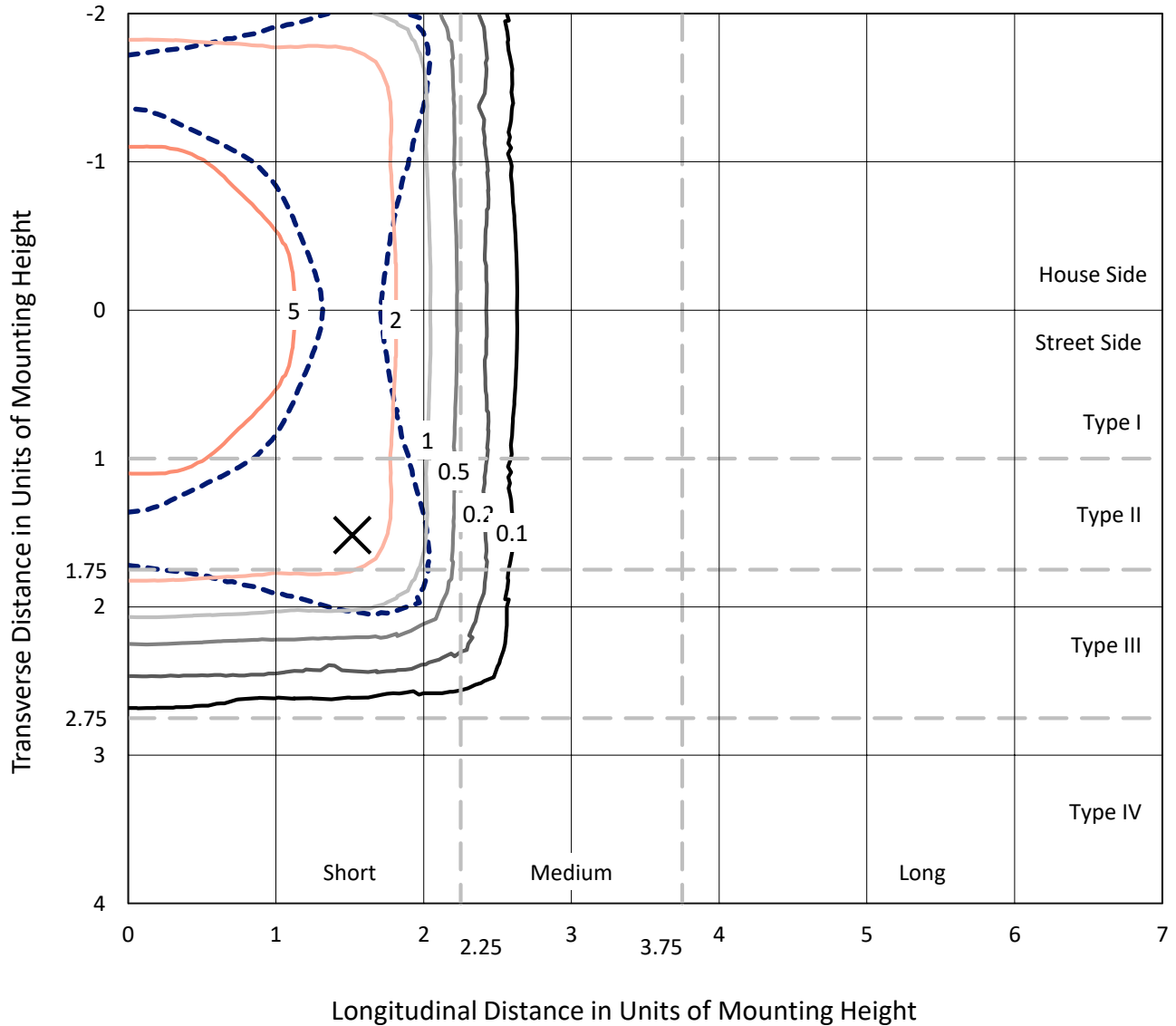


REPORT NUMBER: P200231

CATALOG NUMBER: GWC-AF-01-LED-E1-5NQ-7050

Iso-Footcandle Lines of Horizontal Illumination

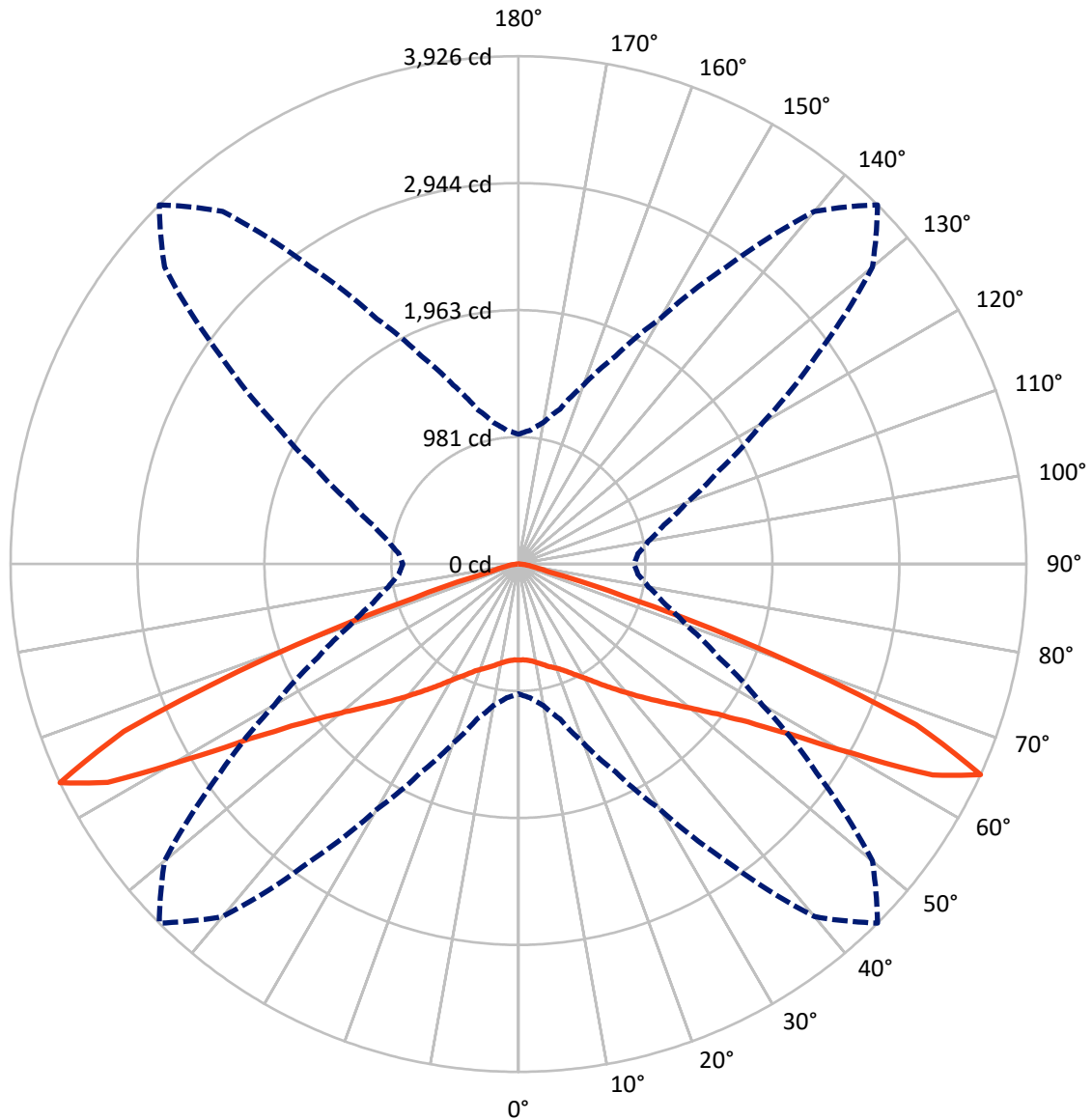
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.4 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P200231
CATALOG NUMBER: GWC-AF-01-LED-E1-5NQ-7050

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P200231

CATALOG NUMBER: GWC-AF-01-LED-E1-5NQ-7050

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3279.0	0.0	3279.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3279.0	0.0	3279.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	6558.0	0.0	6558.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.3	1.1
10°-20°	232.0	3.5
20°-30°	433.7	6.6
30°-40°	733.5	11.2
40°-50°	1199.4	18.3
50°-60°	1907.3	29.1
60°-70°	1724.0	26.3
70°-80°	218.2	3.3
80°-90°	37.5	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°	6558.0	100.0
0°-180°	6558.0	100.0



REPORT NUMBER: P200231

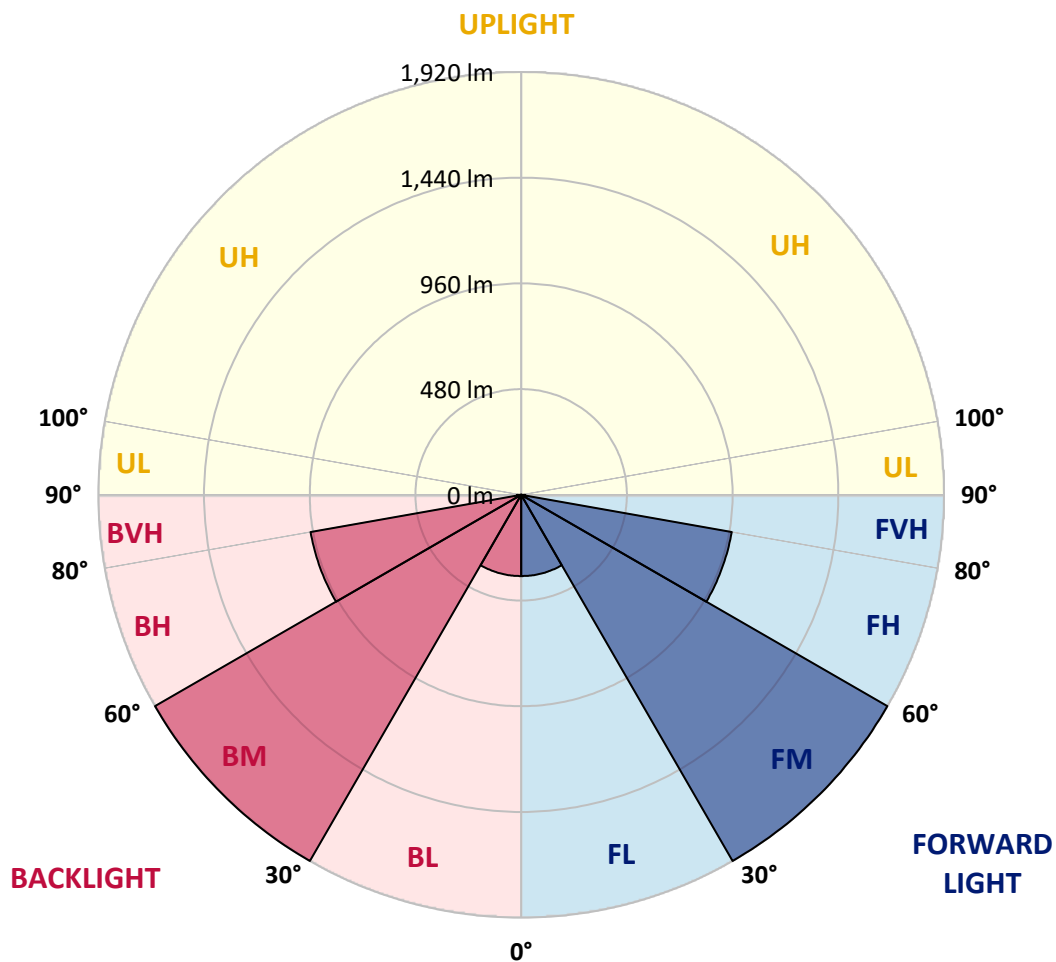
CATALOG NUMBER: GWC-AF-01-LED-E1-5NQ-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	369.0	5.6			
FM	(30°-60°)	1920.1	29.3			
FH	(60°-80°)	971.1	14.8			G1/1800
FVH	(80°-90°)	18.8	0.3			G1/100
BL	(0°-30°)	369.0	5.6	B1/500		
BM	(30°-60°)	1920.1	29.3	B2/2500		
BH	(60°-80°)	971.1	14.8	B2/1000		G1/1800
BVH	(80°-90°)	18.8	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





REPORT NUMBER: P200231

CATALOG NUMBER: GWC-AF-01-LED-E1-5NQ-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	742.0	742.0	742.0	742.0	742.0	742.0	742.0	742.0	742.0	742.0	742.0
2.5°	742.7	743.3	743.9	743.3	743.9	743.0	742.3	743.3	742.3	741.4	742.0
5°	749.1	749.4	749.4	748.5	749.4	748.8	747.9	749.1	748.2	747.3	747.9
7.5°	759.9	761.1	760.2	759.2	759.9	759.2	758.6	758.9	758.6	757.7	758.0
10°	774.3	775.2	774.6	774.3	774.9	774.6	774.0	773.7	774.0	773.1	773.1
12.5°	791.8	791.5	791.2	791.5	792.4	792.4	792.1	792.4	793.0	793.3	792.7
15°	809.0	809.6	809.6	809.6	811.5	813.0	813.9	814.5	815.8	816.1	814.8
17.5°	830.5	830.5	830.2	830.5	832.3	834.8	835.7	836.9	838.2	839.1	837.6
20°	854.5	855.1	855.1	855.7	858.1	860.9	860.9	861.5	860.9	861.5	860.6
22.5°	883.6	885.5	885.5	885.8	888.2	891.6	890.7	891.6	890.1	891.3	890.1
25°	921.7	924.5	923.9	923.9	925.7	927.9	928.2	930.0	929.7	931.2	930.3
27.5°	964.7	969.0	970.2	969.9	971.2	973.3	973.9	976.1	974.9	976.1	975.5
30°	1016.3	1018.2	1020.6	1021.5	1023.1	1025.2	1025.2	1025.5	1024.0	1025.8	1026.8
32.5°	1069.8	1073.1	1075.6	1081.1	1083.9	1085.4	1085.1	1085.7	1084.2	1086.6	1088.5
35°	1140.4	1142.9	1146.8	1151.1	1154.8	1154.5	1153.6	1153.9	1153.9	1156.1	1157.9
37.5°	1225.5	1226.1	1231.3	1237.5	1239.3	1237.5	1231.9	1230.7	1227.9	1230.7	1233.8
40°	1315.5	1317.6	1328.1	1332.0	1333.0	1329.6	1321.6	1317.0	1310.9	1314.2	1318.5
42.5°	1409.8	1414.1	1423.6	1430.6	1433.7	1431.6	1420.5	1413.4	1405.5	1407.3	1411.6
45°	1514.2	1519.4	1532.9	1539.7	1545.5	1542.1	1531.4	1520.6	1508.0	1509.0	1515.7
47.5°	1630.9	1636.1	1653.6	1665.0	1668.1	1667.4	1655.5	1640.7	1623.5	1622.9	1628.7
50°	1761.7	1767.0	1788.8	1806.3	1815.2	1814.3	1800.1	1779.2	1758.4	1758.7	1766.0
52.5°	1889.5	1896.0	1918.7	1948.8	1966.3	1978.9	1970.3	1950.6	1925.1	1925.7	1932.5
55°	2009.3	2020.0	2046.1	2087.0	2119.5	2154.9	2165.0	2164.4	2149.0	2153.3	2160.1
57.5°	2067.3	2083.3	2123.5	2188.0	2254.4	2326.3	2387.1	2432.5	2451.9	2481.0	2474.3
60°	1957.4	1982.9	2042.1	2137.1	2268.2	2418.1	2578.7	2735.7	2869.6	2970.6	2912.6
62.5°	1602.6	1635.8	1707.7	1829.3	2027.7	2267.6	2575.0	2946.1	3350.2	3594.1	3420.0
65°	1002.8	1037.2	1110.3	1240.5	1472.7	1770.9	2188.0	2802.9	3558.2	3925.8	3571.4
67.5°	391.0	409.7	449.3	532.6	707.0	972.4	1391.0	2088.8	2992.1	3314.3	2936.5
70°	196.0	197.8	205.2	220.5	258.0	335.1	509.8	968.4	1716.0	2072.6	1654.2
72.5°	141.6	141.9	145.6	152.3	164.3	181.5	214.7	296.4	558.1	852.9	523.1
75°	108.4	109.6	111.8	115.5	121.9	130.5	142.5	170.8	211.6	245.4	206.4
77.5°	83.5	86.0	87.5	90.9	94.9	100.7	104.1	114.9	133.6	140.7	138.5
80°	63.6	65.7	69.1	71.9	74.6	77.4	76.2	81.1	90.9	96.7	93.7
82.5°	40.5	43.0	52.8	55.3	56.5	58.4	56.2	56.5	60.8	64.5	60.8
85°	26.1	27.6	33.5	36.5	36.9	38.1	37.2	35.0	35.0	31.9	35.9
87.5°	12.0	12.3	15.0	17.8	18.4	16.6	16.3	15.7	12.6	12.0	12.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P200231

CATALOG NUMBER: GWC-AF-01-LED-E1-5NQ-7050

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	742.0	742.0	742.0	742.0	742.0	742.0	742.0	742.0
2.5°	741.7	742.3	742.7	743.6	743.9	743.9	744.2	744.8
5°	747.6	748.5	748.8	750.0	750.3	750.0	750.6	750.9
7.5°	758.0	759.5	760.2	761.4	760.5	761.7	762.0	762.0
10°	773.4	774.9	775.2	776.4	775.8	776.4	776.4	775.8
12.5°	793.6	793.9	793.0	793.9	792.7	793.3	792.4	791.8
15°	816.1	815.1	813.0	813.0	811.1	811.5	811.1	810.8
17.5°	837.9	836.0	834.5	833.9	832.3	832.0	831.1	831.1
20°	861.8	860.9	860.0	858.8	857.2	855.7	855.4	856.0
22.5°	890.7	890.4	890.4	889.8	887.6	886.1	885.2	885.2
25°	929.4	926.6	926.6	926.3	925.4	924.5	922.6	923.6
27.5°	973.0	971.5	972.7	972.4	971.5	971.5	970.2	970.2
30°	1026.8	1026.1	1028.0	1026.4	1023.4	1023.1	1021.8	1020.3
32.5°	1088.8	1088.2	1090.9	1089.1	1084.2	1081.4	1079.0	1077.7
35°	1157.9	1158.2	1161.6	1160.4	1154.8	1153.0	1148.7	1148.1
37.5°	1233.5	1238.4	1244.2	1245.4	1240.8	1239.6	1235.0	1232.5
40°	1322.2	1328.7	1337.6	1339.7	1334.8	1333.9	1327.4	1324.1
42.5°	1416.8	1427.9	1438.9	1440.8	1435.9	1430.9	1424.8	1422.3
45°	1522.5	1535.7	1550.1	1553.8	1546.4	1540.6	1532.6	1532.6
47.5°	1641.0	1657.6	1673.9	1684.0	1677.3	1671.1	1661.6	1655.5
50°	1781.1	1803.8	1825.0	1835.4	1824.7	1813.0	1796.4	1790.9
52.5°	1956.8	1981.3	1999.8	1994.2	1977.7	1961.4	1943.3	1935.9
55°	2181.0	2189.3	2189.3	2168.4	2135.2	2107.9	2079.3	2069.8
57.5°	2461.4	2429.4	2380.3	2318.0	2239.6	2171.5	2125.4	2103.6
60°	2790.9	2637.4	2463.8	2293.4	2153.3	2037.8	1969.4	1938.0
62.5°	3010.5	2608.8	2261.1	1987.5	1786.0	1646.9	1552.3	1515.4
65°	2813.7	2175.8	1710.1	1382.7	1163.1	1021.5	927.9	893.5
67.5°	2060.9	1363.4	910.7	652.7	478.2	381.5	343.1	327.1
70°	925.1	480.1	294.2	229.7	198.1	181.8	174.8	172.3
72.5°	278.9	201.8	170.2	153.6	141.0	133.0	127.2	126.5
75°	168.3	140.1	124.4	114.6	106.6	100.1	97.1	96.1
77.5°	117.6	102.9	95.5	88.5	82.3	77.4	74.6	72.5
80°	82.6	75.6	72.2	68.2	64.2	59.6	55.6	53.7
82.5°	55.3	53.7	53.7	51.3	47.9	43.6	35.6	33.8
85°	35.6	35.3	35.9	35.0	32.6	27.9	23.0	21.8
87.5°	16.6	16.9	18.7	18.4	17.8	14.7	11.7	11.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)