

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: P200229

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200229
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-7050-800
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 5000K, 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: 5298 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: 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

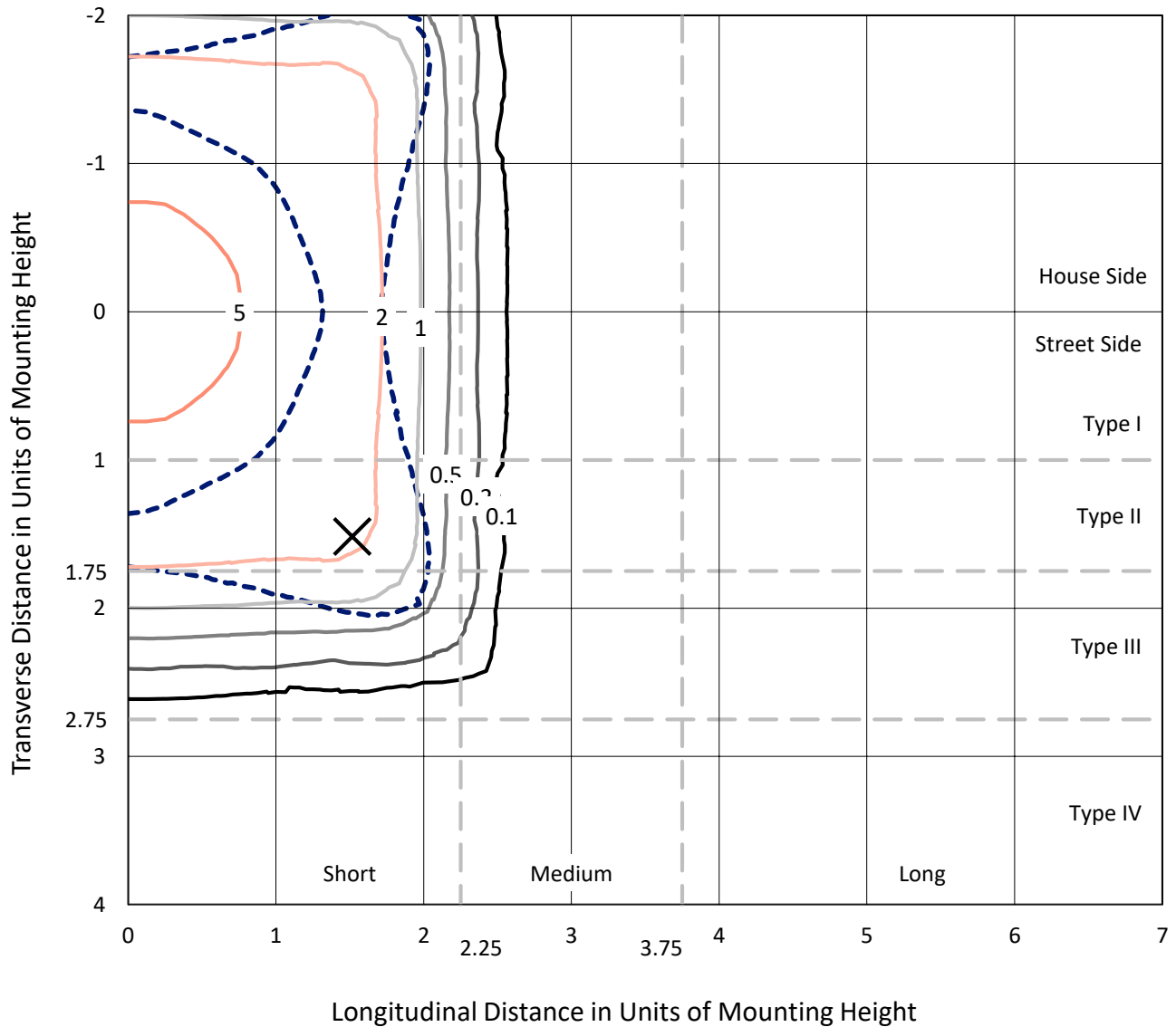


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Iso-Footcandle Lines of Horizontal Illumination

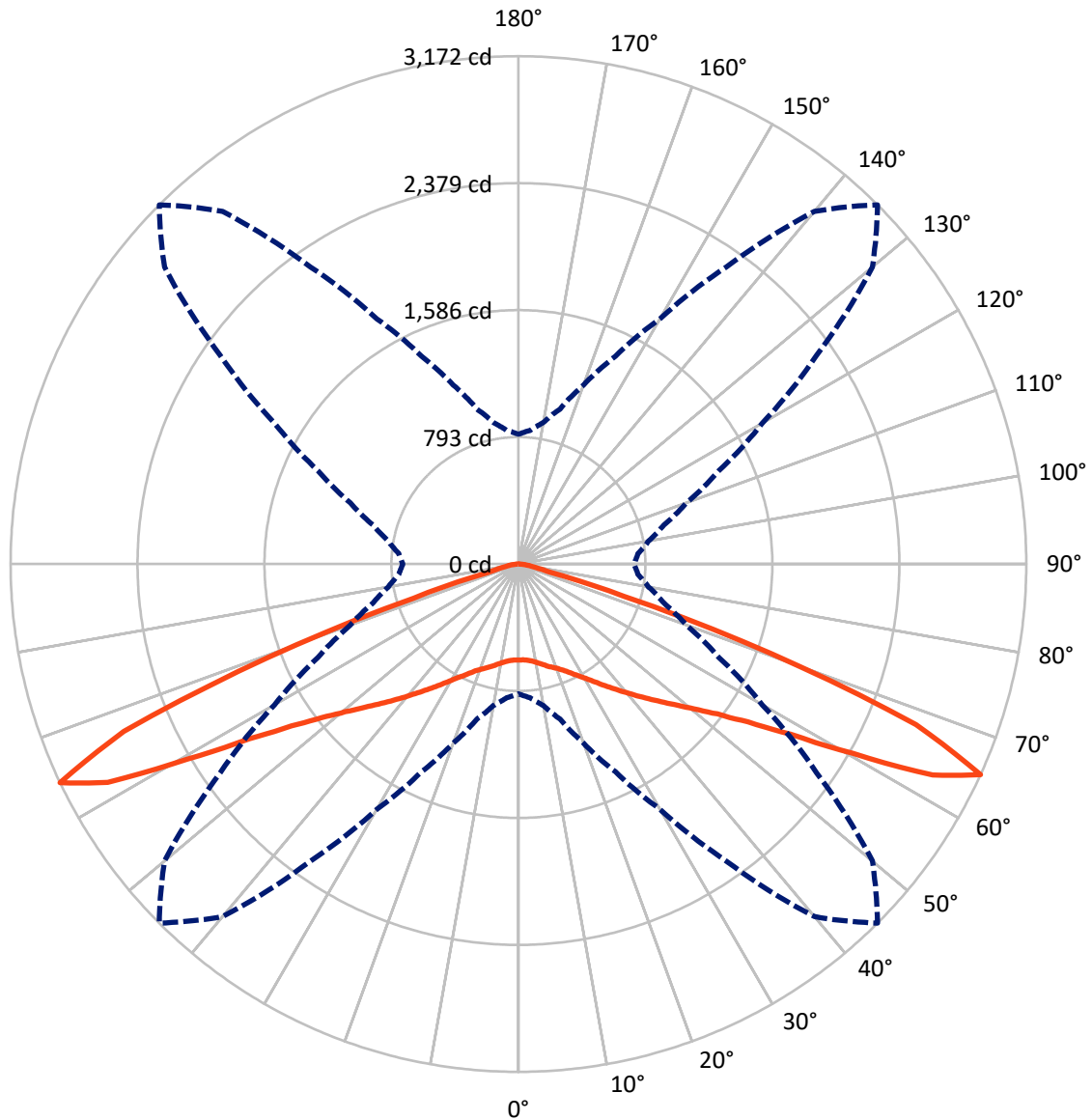
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6 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	2649.0	0.0	2649.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2649.0	0.0	2649.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5298.0	0.0	5298.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.4	1.1
10°-20°	187.4	3.5
20°-30°	350.4	6.6
30°-40°	592.6	11.2
40°-50°	969.0	18.3
50°-60°	1540.8	29.1
60°-70°	1392.8	26.3
70°-80°	176.3	3.3
80°-90°	30.3	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°	5298.0	100.0
0°-180°	5298.0	100.0



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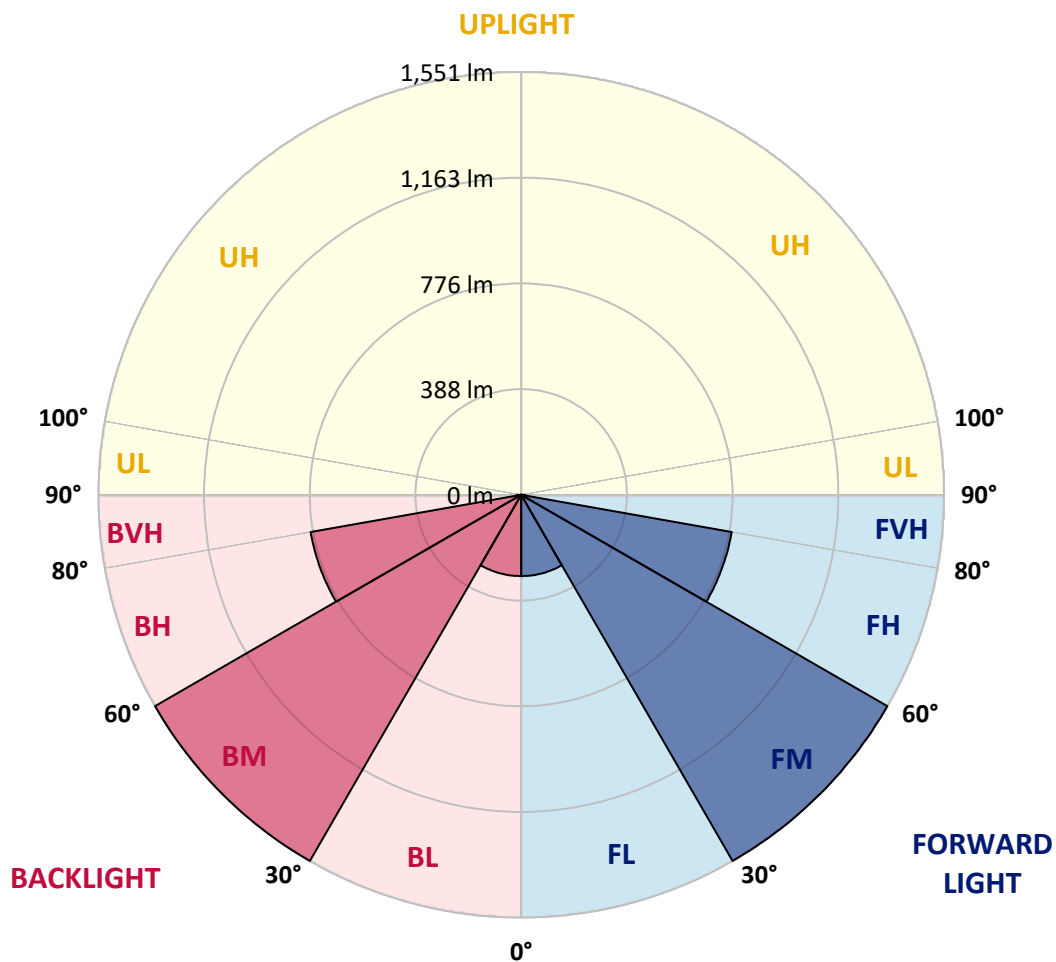
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	298.1	5.6			
FM	(30°-60°)	1551.2	29.3			
FH	(60°-80°)	784.5	14.8			G1/1800
FVH	(80°-90°)	15.2	0.3			G1/100
BL	(0°-30°)	298.1	5.6	B1/500		
BM	(30°-60°)	1551.2	29.3	B2/2500		
BH	(60°-80°)	784.5	14.8	B2/1000		G1/1800
BVH	(80°-90°)	15.2	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°	599.5	599.5	599.5	599.5	599.5	599.5	599.5	599.5	599.5	599.5	599.5
2.5°	600.0	600.5	601.0	600.5	601.0	600.2	599.7	600.5	599.7	599.0	599.5
5°	605.2	605.4	605.4	604.7	605.4	604.9	604.2	605.2	604.4	603.7	604.2
7.5°	613.9	614.9	614.1	613.4	613.9	613.4	612.9	613.1	612.9	612.1	612.4
10°	625.5	626.3	625.8	625.5	626.0	625.8	625.3	625.0	625.3	624.5	624.5
12.5°	639.7	639.4	639.2	639.4	640.2	640.2	639.9	640.2	640.7	640.9	640.4
15°	653.6	654.1	654.1	654.1	655.5	656.8	657.5	658.0	659.0	659.3	658.3
17.5°	670.9	670.9	670.7	670.9	672.4	674.4	675.1	676.1	677.1	677.9	676.6
20°	690.3	690.8	690.8	691.3	693.3	695.5	695.5	696.0	695.5	696.0	695.2
22.5°	713.9	715.3	715.3	715.6	717.6	720.3	719.6	720.3	719.1	720.1	719.1
25°	744.6	746.9	746.4	746.4	747.9	749.6	749.8	751.3	751.1	752.3	751.6
27.5°	779.4	782.8	783.8	783.6	784.6	786.3	786.8	788.5	787.6	788.5	788.0
30°	821.0	822.5	824.5	825.3	826.5	828.2	828.2	828.5	827.3	828.7	829.5
32.5°	864.2	867.0	868.9	873.4	875.6	876.9	876.6	877.1	875.9	877.9	879.4
35°	921.3	923.3	926.5	930.0	933.0	932.7	932.0	932.2	932.2	933.9	935.4
37.5°	990.0	990.5	994.7	999.7	1001.2	999.7	995.2	994.2	992.0	994.2	996.7
40°	1062.7	1064.5	1072.9	1076.1	1076.9	1074.1	1067.7	1064.0	1059.0	1061.7	1065.2
42.5°	1138.9	1142.4	1150.1	1155.8	1158.3	1156.5	1147.6	1141.9	1135.4	1136.9	1140.4
45°	1223.3	1227.5	1238.4	1243.9	1248.6	1245.8	1237.2	1228.5	1218.3	1219.0	1224.5
47.5°	1317.5	1321.8	1335.9	1345.1	1347.6	1347.1	1337.4	1325.5	1311.6	1311.1	1315.8
50°	1423.2	1427.5	1445.1	1459.2	1466.4	1465.7	1454.3	1437.4	1420.5	1420.8	1426.7
52.5°	1526.5	1531.7	1550.0	1574.4	1588.5	1598.7	1591.7	1575.8	1555.3	1555.7	1561.2
55°	1623.2	1631.9	1653.0	1686.0	1712.3	1740.8	1749.0	1748.5	1736.1	1739.6	1745.1
57.5°	1670.1	1683.0	1715.5	1767.6	1821.2	1879.3	1928.4	1965.2	1980.8	2004.4	1998.9
60°	1581.3	1601.9	1649.8	1726.5	1832.4	1953.5	2083.3	2210.1	2318.2	2399.9	2353.0
62.5°	1294.7	1321.5	1379.6	1477.8	1638.1	1831.9	2080.3	2380.0	2706.6	2903.6	2762.9
65°	810.1	837.9	897.0	1002.2	1189.8	1430.7	1767.6	2264.4	2874.5	3171.5	2885.2
67.5°	315.9	331.0	363.0	430.2	571.2	785.6	1123.8	1687.5	2417.2	2677.5	2372.3
70°	158.3	159.8	165.7	178.2	208.4	270.7	411.9	782.3	1386.3	1674.4	1336.4
72.5°	114.4	114.6	117.6	123.1	132.7	146.6	173.4	239.4	450.8	689.0	422.6
75°	87.6	88.6	90.3	93.3	98.5	105.5	115.1	138.0	171.0	198.3	166.7
77.5°	67.5	69.5	70.7	73.4	76.7	81.4	84.1	92.8	107.9	113.6	111.9
80°	51.4	53.1	55.8	58.1	60.3	62.5	61.5	65.5	73.4	78.2	75.7
82.5°	32.8	34.7	42.7	44.7	45.7	47.1	45.4	45.7	49.1	52.1	49.1
85°	21.1	22.3	27.0	29.5	29.8	30.8	30.0	28.3	28.3	25.8	29.0
87.5°	9.7	9.9	12.2	14.4	14.9	13.4	13.2	12.7	10.2	9.7	10.4
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°	599.5	599.5	599.5	599.5	599.5	599.5	599.5	599.5
2.5°	599.2	599.7	600.0	600.7	601.0	601.0	601.2	601.7
5°	603.9	604.7	604.9	605.9	606.2	605.9	606.4	606.7
7.5°	612.4	613.6	614.1	615.1	614.4	615.4	615.6	615.6
10°	624.8	626.0	626.3	627.3	626.8	627.3	627.3	626.8
12.5°	641.2	641.4	640.7	641.4	640.4	640.9	640.2	639.7
15°	659.3	658.5	656.8	656.8	655.3	655.5	655.3	655.1
17.5°	676.9	675.4	674.2	673.7	672.4	672.2	671.4	671.4
20°	696.2	695.5	694.8	693.8	692.5	691.3	691.0	691.5
22.5°	719.6	719.3	719.3	718.8	717.1	715.8	715.1	715.1
25°	750.8	748.6	748.6	748.3	747.6	746.9	745.4	746.1
27.5°	786.1	784.8	785.8	785.6	784.8	784.8	783.8	783.8
30°	829.5	829.0	830.5	829.2	826.8	826.5	825.5	824.3
32.5°	879.6	879.1	881.3	879.9	875.9	873.7	871.7	870.7
35°	935.4	935.7	938.4	937.4	933.0	931.5	928.0	927.5
37.5°	996.5	1000.4	1005.2	1006.1	1002.4	1001.4	997.7	995.7
40°	1068.2	1073.4	1080.6	1082.3	1078.4	1077.6	1072.4	1069.7
42.5°	1144.6	1153.5	1162.5	1164.0	1160.0	1156.0	1151.1	1149.1
45°	1230.0	1240.6	1252.3	1255.3	1249.3	1244.6	1238.1	1238.1
47.5°	1325.7	1339.1	1352.3	1360.5	1355.0	1350.1	1342.4	1337.4
50°	1438.9	1457.2	1474.4	1482.8	1474.1	1464.7	1451.3	1446.8
52.5°	1580.8	1600.7	1615.5	1611.1	1597.7	1584.5	1569.9	1563.9
55°	1761.9	1768.6	1768.6	1751.8	1725.0	1702.9	1679.8	1672.1
57.5°	1988.5	1962.7	1923.0	1872.6	1809.3	1754.2	1717.0	1699.4
60°	2254.7	2130.7	1990.5	1852.8	1739.6	1646.3	1591.0	1565.7
62.5°	2432.1	2107.6	1826.7	1605.6	1442.9	1330.4	1254.0	1224.3
65°	2273.1	1757.7	1381.6	1117.1	939.7	825.3	749.6	721.8
67.5°	1664.9	1101.4	735.7	527.3	386.3	308.2	277.2	264.3
70°	747.4	387.8	237.7	185.6	160.0	146.9	141.2	139.2
72.5°	225.3	163.0	137.5	124.1	113.9	107.4	102.7	102.2
75°	136.0	113.1	100.5	92.6	86.1	80.9	78.4	77.7
77.5°	95.0	83.1	77.2	71.5	66.5	62.5	60.3	58.6
80°	66.7	61.0	58.3	55.1	51.9	48.1	44.9	43.4
82.5°	44.7	43.4	43.4	41.4	38.7	35.2	28.8	27.3
85°	28.8	28.5	29.0	28.3	26.3	22.6	18.6	17.6
87.5°	13.4	13.6	15.1	14.9	14.4	11.9	9.4	8.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)