

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P632098

Luminaire Tested: GWS-SA2C-722-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632098
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2C-722-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6547.4 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

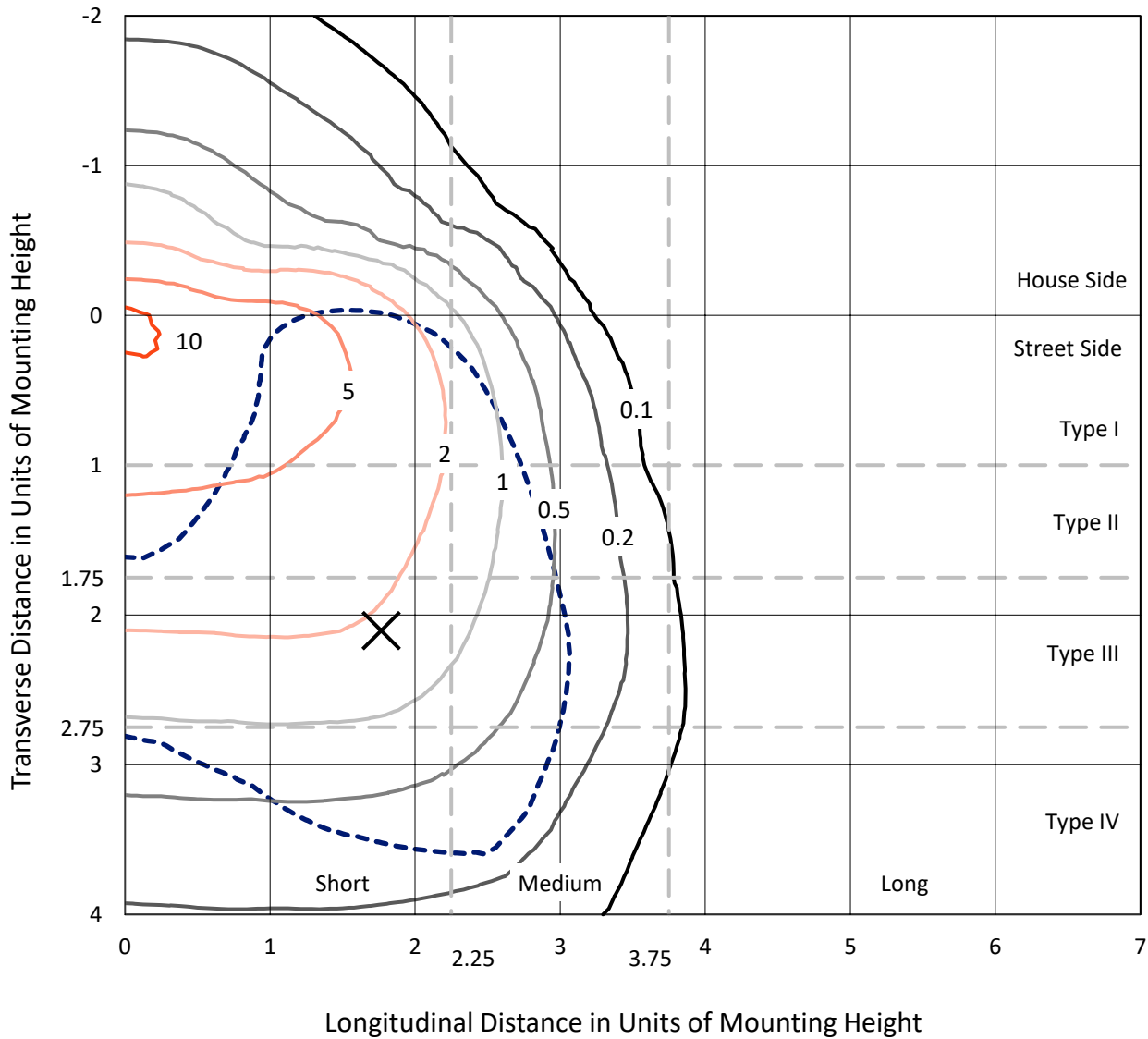
Input Watts (W): 63.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

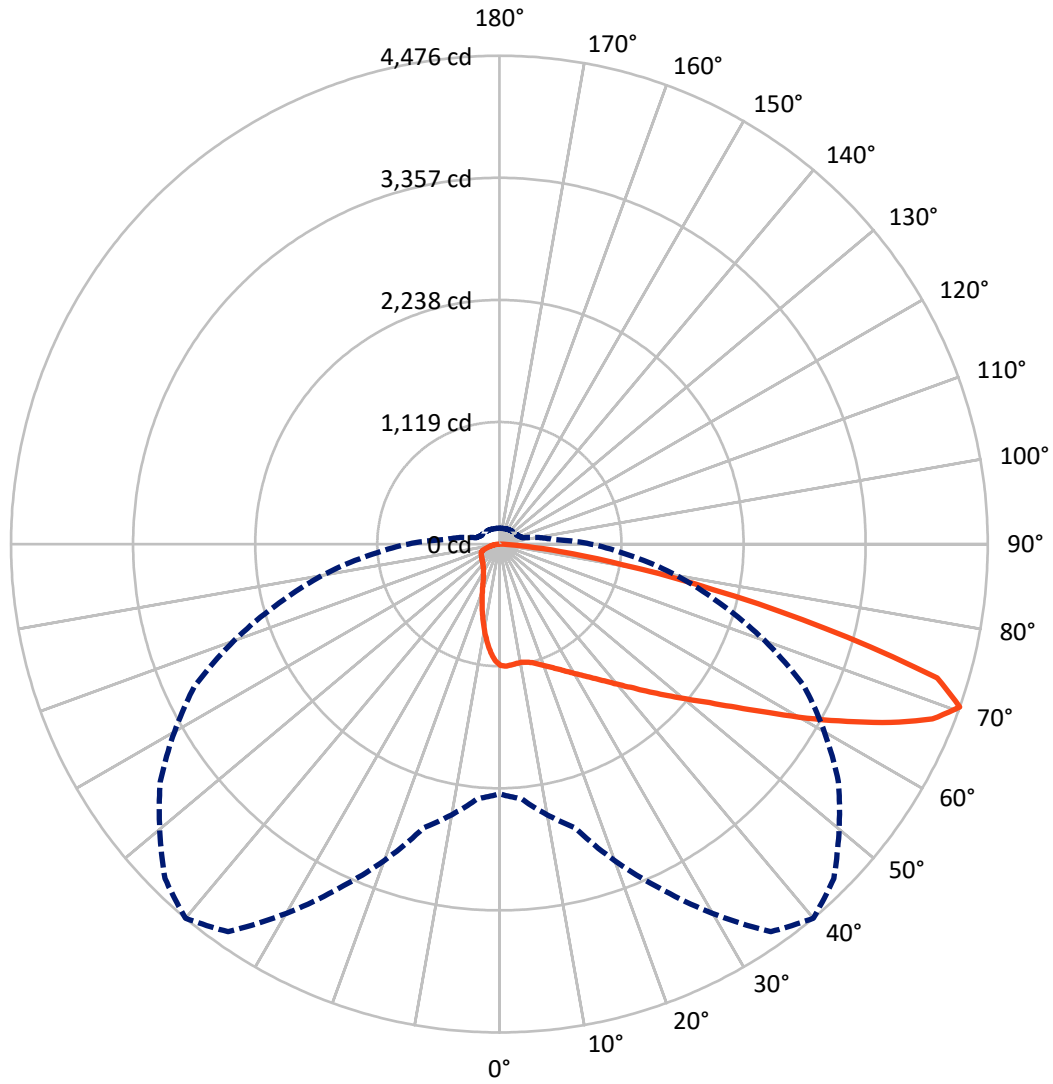
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1008.5	0.0	1008.5
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	5538.9	0.0	5538.9
	% Fixture	84.6	0.0	84.6
Total	Lumens	6547.4	0.0	6547.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.2	1.5
10°-20°	256.0	3.9
20°-30°	402.0	6.1
30°-40°	604.4	9.2
40°-50°	932.9	14.2
50°-60°	1385.5	21.2
60°-70°	1746.4	26.7
70°-80°	1009.9	15.4
80°-90°	112.1	1.7
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°	6547.4	100.0
0°-180°	6547.4	100.0

Coefficient of Utilization



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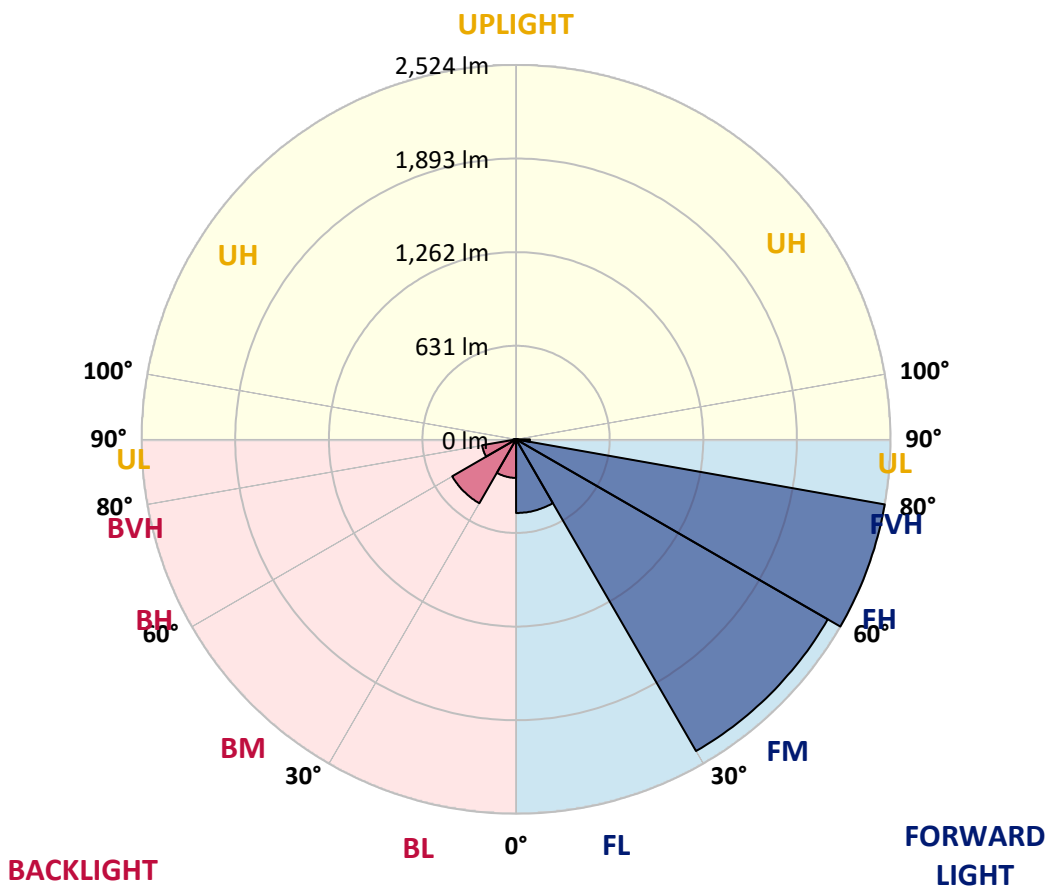
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	496.3	7.6			
FM (30°-60°)	2425.7	37.0			
FH (60°-80°)	2523.5	38.5			G2/5000
FVH (80°-90°)	93.3	1.4			G1/100
BL (0°-30°)	259.9	4.0	B1/500		
BM (30°-60°)	497.1	7.6	B1/1000		
BH (60°-80°)	232.8	3.6	B1/500		G1/500
BVH (80°-90°)	18.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1111.8	1111.8	1111.8	1111.8	1111.8	1111.8	1111.8	1111.8	1111.8	1111.8	1111.8
2.5°	1118.7	1120.6	1122.1	1124.0	1123.1	1120.1	1122.6	1122.6	1117.2	1111.3	1106.0
5°	1120.1	1122.6	1122.1	1121.6	1117.7	1112.8	1112.8	1109.9	1100.6	1091.3	1082.5
7.5°	1117.2	1116.7	1116.2	1114.8	1110.4	1105.0	1104.0	1098.1	1085.9	1073.2	1060.5
10°	1104.0	1103.5	1105.0	1108.4	1107.4	1102.5	1102.5	1097.2	1083.0	1067.4	1050.7
12.5°	1093.3	1093.3	1099.1	1108.4	1111.8	1109.9	1110.4	1106.4	1090.3	1071.7	1052.2
15°	1094.7	1095.2	1107.9	1123.1	1129.4	1128.0	1128.4	1124.0	1106.0	1087.4	1061.0
17.5°	1104.5	1106.9	1128.9	1149.9	1158.3	1156.3	1152.9	1145.5	1125.0	1104.0	1071.7
20°	1125.0	1128.9	1157.3	1183.7	1193.4	1189.0	1183.2	1168.5	1146.0	1123.1	1083.5
22.5°	1165.6	1168.0	1199.3	1225.2	1233.0	1227.6	1215.9	1194.9	1169.0	1145.1	1097.7
25°	1222.8	1225.7	1255.5	1279.5	1277.5	1271.1	1255.0	1229.1	1198.3	1172.9	1118.2
27.5°	1290.7	1295.6	1324.9	1344.0	1331.3	1322.0	1303.9	1272.6	1237.9	1214.9	1149.5
30°	1365.0	1366.9	1391.9	1410.9	1391.4	1378.7	1356.7	1322.9	1291.7	1274.6	1196.4
32.5°	1436.8	1438.8	1460.3	1471.0	1450.5	1441.2	1422.2	1386.5	1364.5	1355.2	1266.3
35°	1512.6	1512.1	1529.7	1539.0	1517.9	1514.0	1494.5	1467.1	1463.2	1475.4	1368.4
37.5°	1588.3	1583.9	1593.2	1605.4	1593.7	1597.6	1584.9	1575.6	1590.8	1622.5	1504.3
40°	1648.9	1648.9	1658.7	1673.8	1677.8	1694.9	1687.5	1699.7	1748.6	1824.4	1672.4
42.5°	1702.7	1703.2	1723.7	1747.2	1775.5	1801.9	1807.8	1839.5	1940.7	2059.4	1883.5
45°	1758.9	1759.4	1787.2	1821.4	1881.5	1931.9	1943.6	2015.0	2159.6	2304.3	2112.7
47.5°	1823.9	1818.5	1857.1	1914.3	1999.8	2072.1	2102.4	2203.6	2386.4	2564.3	2328.7
50°	1897.2	1885.9	1929.0	2027.7	2133.2	2232.4	2283.3	2399.1	2629.8	2804.2	2532.0
52.5°	1979.8	1973.4	2018.4	2138.6	2299.9	2414.2	2483.2	2635.1	2866.3	3043.2	2693.3
55°	2082.4	2067.3	2132.3	2285.2	2495.4	2641.0	2722.6	2868.7	3124.8	3260.2	2816.5
57.5°	2194.8	2178.2	2265.2	2468.5	2749.5	2909.3	3011.5	3131.7	3368.2	3426.4	2888.8
60°	2316.0	2310.6	2413.8	2683.5	3052.5	3238.2	3312.0	3421.0	3579.8	3522.6	2870.7
62.5°	2427.0	2425.0	2575.0	2916.6	3373.6	3577.9	3636.5	3665.4	3732.3	3516.3	2727.0
65°	2543.8	2560.4	2763.2	3186.9	3741.6	3942.0	3966.4	3893.1	3783.6	3349.6	2432.8
67.5°	2558.4	2590.7	2881.5	3440.1	4090.5	4279.7	4260.1	3979.6	3632.1	2885.9	1907.0
70°	2288.2	2344.4	2692.8	3478.7	4336.4	4475.6	4334.4	3793.4	3082.3	2090.7	1199.3
72.5°	1911.8	1960.2	2268.1	2966.5	4019.2	4196.6	4005.5	3210.8	2178.2	1199.3	610.9
75°	1488.1	1544.3	1828.3	2358.0	3009.0	3079.9	2984.1	2239.3	1197.3	494.6	277.6
77.5°	908.0	948.6	1169.5	1597.6	2105.4	1999.3	1694.4	1255.5	525.4	237.0	171.5
80°	401.7	426.6	576.2	858.2	1216.4	1149.9	906.6	536.1	287.4	150.5	119.7
82.5°	215.5	231.7	283.9	339.7	534.2	558.6	453.0	308.9	154.4	86.0	68.4
85°	94.8	104.1	129.0	123.2	175.4	172.5	174.0	212.1	73.8	39.6	44.5
87.5°	0.0	0.0	0.0	0.0	0.5	0.5	5.4	28.3	7.3	11.7	10.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1111.8	1111.8	1111.8	1111.8	1111.8	1111.8	1111.8	1111.8	1111.8	1111.8	1111.8
2.5°	1100.1	1091.3	1088.9	1085.9	1080.5	1071.3	1064.4	1056.6	1053.2	1049.3	1049.8
5°	1072.7	1062.0	1051.7	1038.5	1021.9	1003.3	990.6	976.0	968.1	960.8	962.8
7.5°	1049.3	1032.7	1011.6	983.8	954.0	920.7	893.9	872.8	858.7	848.9	853.8
10°	1034.6	1015.1	978.4	933.0	882.6	831.8	793.2	757.0	734.5	716.9	716.0
12.5°	1031.7	1006.3	953.0	887.0	814.2	746.3	689.6	640.7	610.9	588.9	597.2
15°	1034.6	1002.4	931.0	844.5	752.6	660.7	590.4	534.2	498.5	478.5	477.0
17.5°	1038.0	998.4	906.1	798.6	688.1	583.0	501.4	441.8	405.1	385.1	385.6
20°	1041.0	992.6	876.8	748.2	622.6	510.7	426.2	369.5	336.7	322.1	324.5
22.5°	1045.8	986.7	845.5	694.5	555.7	440.8	366.5	320.6	301.0	291.3	291.8
25°	1055.1	983.3	813.2	635.8	489.7	385.1	325.5	294.7	282.5	276.6	276.1
27.5°	1074.2	986.2	779.5	579.1	430.1	342.6	299.1	279.1	270.7	266.8	266.3
30°	1106.0	998.0	750.2	521.5	378.8	309.4	281.0	268.8	263.9	260.5	260.0
32.5°	1154.3	1019.9	718.4	467.7	337.2	284.9	266.8	260.5	257.1	255.1	255.1
35°	1227.6	1060.0	687.1	420.8	305.0	265.9	255.6	253.2	250.2	249.2	250.2
37.5°	1333.2	1124.0	658.8	379.7	282.0	251.2	243.4	244.4	241.9	243.4	244.8
40°	1467.1	1209.6	634.8	346.0	264.9	240.4	232.6	236.0	234.6	236.0	238.5
42.5°	1636.7	1315.6	616.8	319.6	252.7	231.7	224.3	227.7	226.8	228.7	231.2
45°	1825.8	1455.4	608.4	301.0	243.9	225.3	217.5	219.9	218.9	220.4	222.9
47.5°	2007.1	1582.5	615.8	290.3	236.5	219.9	211.6	212.6	212.1	211.6	213.1
50°	2163.5	1683.6	636.8	286.9	231.7	214.5	206.7	207.2	205.7	202.8	203.8
52.5°	2291.1	1764.7	649.5	286.9	229.2	208.7	201.4	201.8	198.9	195.0	195.5
55°	2375.1	1797.5	639.2	286.4	228.2	203.8	196.0	196.5	193.5	188.6	189.1
57.5°	2399.1	1765.7	596.2	281.0	227.3	199.9	190.6	191.6	189.6	184.2	184.2
60°	2332.1	1649.4	517.5	268.8	224.8	197.4	186.7	188.2	187.2	181.8	181.8
62.5°	2156.7	1442.7	423.7	250.2	218.0	194.5	183.3	186.2	188.6	185.7	185.2
65°	1828.3	1155.8	344.5	229.7	209.2	189.6	178.4	185.7	191.1	195.0	195.0
67.5°	1371.8	827.4	281.0	208.2	196.0	179.8	172.0	178.9	182.8	185.2	186.7
70°	836.2	486.8	221.4	183.3	176.9	165.2	159.3	152.5	147.1	146.1	146.6
72.5°	409.1	278.6	179.8	155.9	151.0	140.3	127.1	124.1	121.7	120.2	119.7
75°	225.3	194.0	148.6	129.5	120.7	107.5	104.6	99.7	98.7	96.8	97.3
77.5°	159.3	153.0	122.7	105.1	91.9	85.0	86.5	83.1	83.1	81.6	81.1
80°	119.7	120.2	94.3	76.7	67.9	65.5	67.0	67.0	66.0	65.5	65.0
82.5°	75.8	85.5	63.5	49.4	48.4	48.9	48.4	47.9	48.9	47.4	46.9
85°	52.3	61.6	38.6	29.3	29.3	28.8	29.8	29.3	30.3	28.8	28.8
87.5°	11.7	27.4	14.2	8.8	9.3	8.8	9.3	9.8	10.8	11.2	11.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)