

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: P629782

Luminaire Tested: GWS-SA1C-735-U-SL2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P629782  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1C-735-U-SL2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (16) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

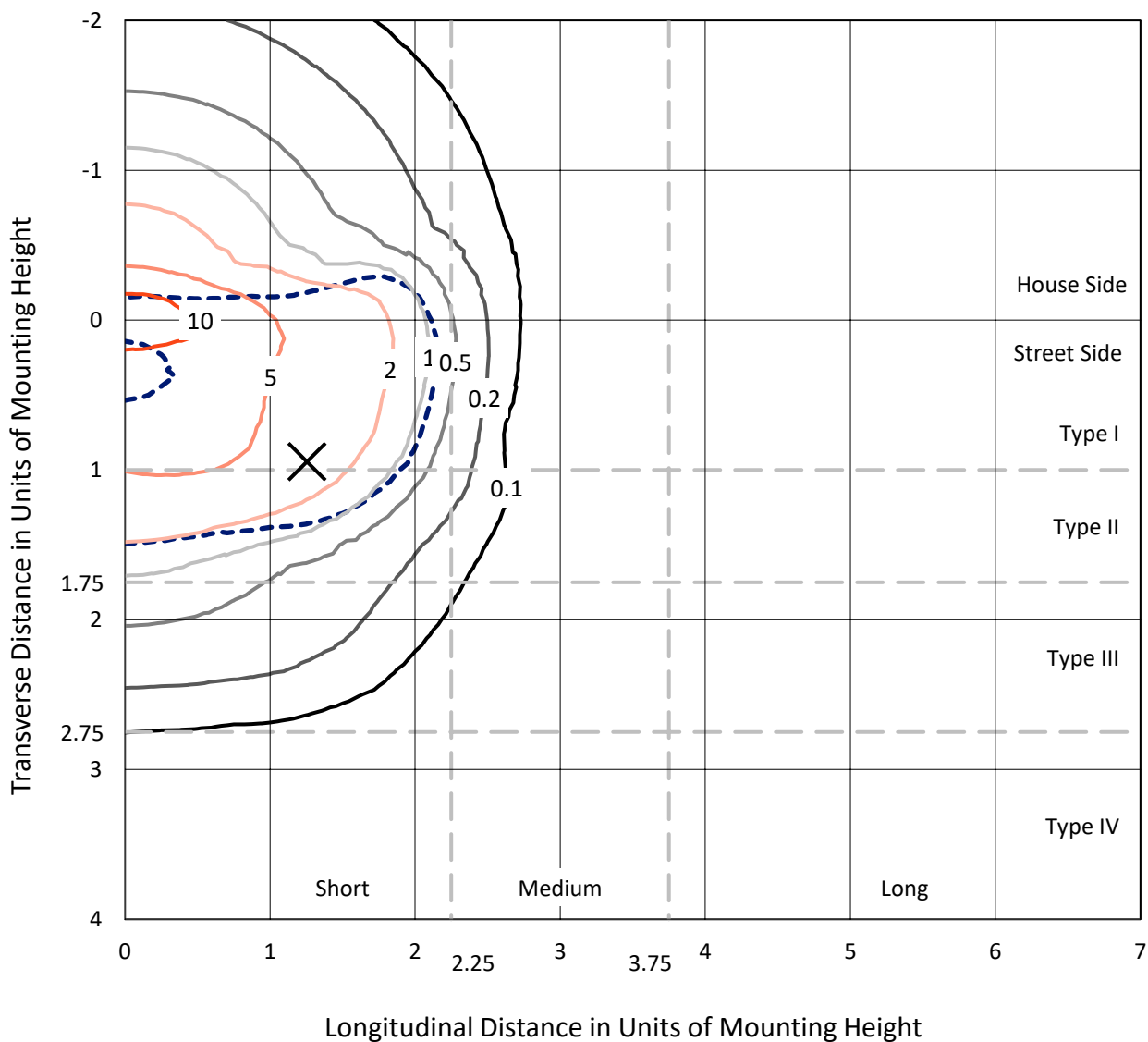
Lumens per Lamp: N/A  
Luminaire Lumens: 4037.7 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 34.1  
Input Voltage (V): 120  
Input Current (Ain): 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

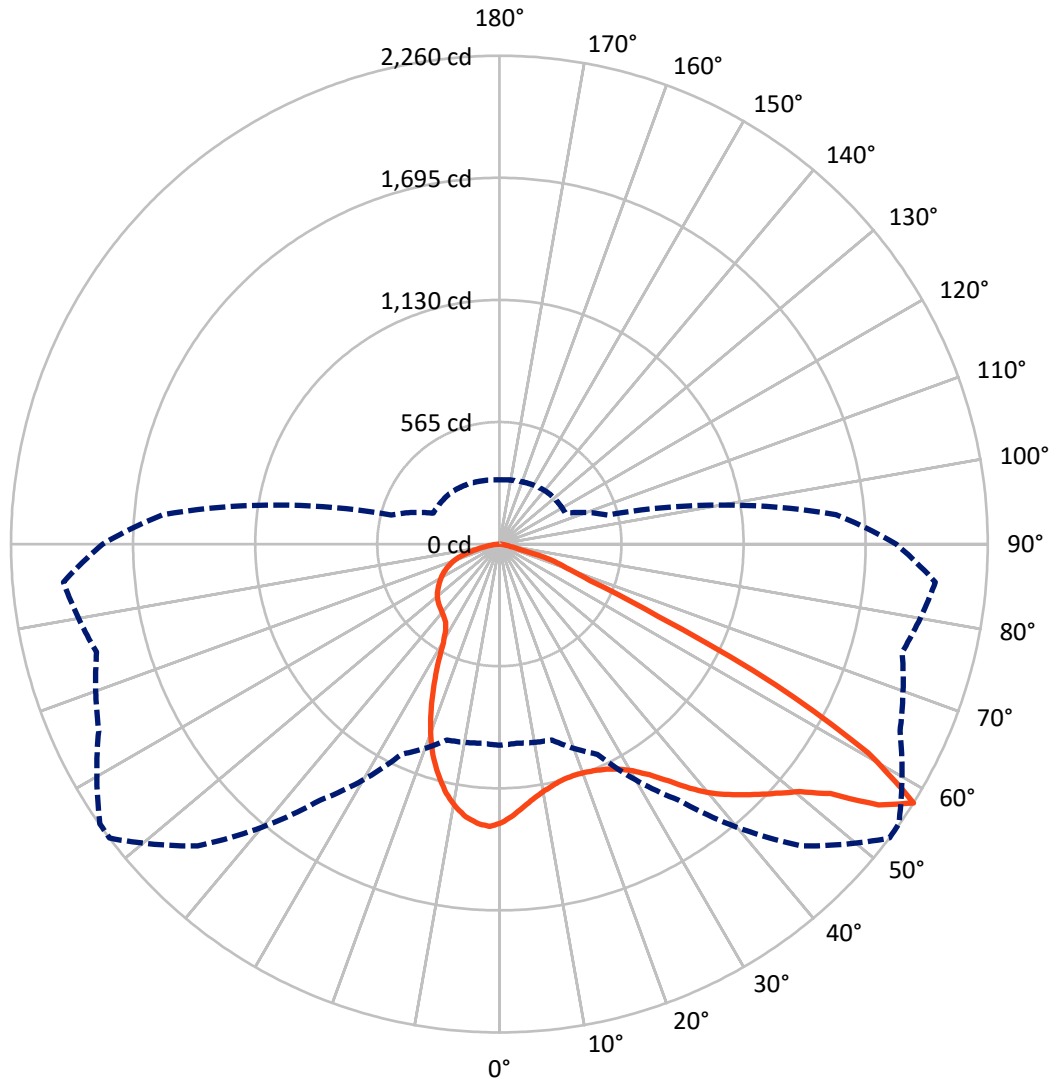
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1262.4	0.0	1262.4
	% Fixture	31.3	0.0	31.3
<b>Street Side</b>	Lumens	2775.3	0.0	2775.3
	% Fixture	68.7	0.0	68.7
<b>Total</b>	Lumens	4037.7	0.0	4037.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.6	2.9
10°-20°	305.9	7.6
20°-30°	450.7	11.2
30°-40°	630.8	15.6
40°-50°	829.3	20.5
50°-60°	972.3	24.1
60°-70°	572.8	14.2
70°-80°	142.5	3.5
80°-90°	16.7	0.4
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°	4037.7	100.0
0°-180°	4037.7	100.0

**Coefficient of Utilization**



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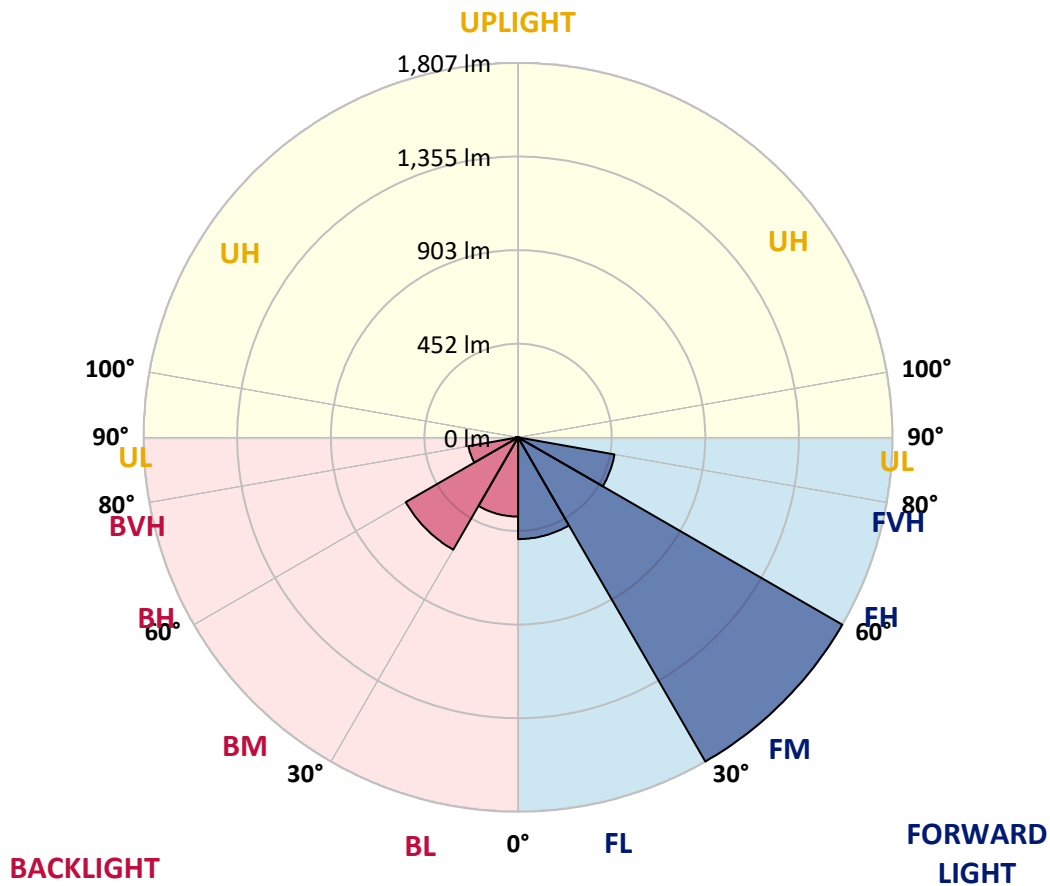
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	490.9	12.2			
FM (30°-60°)	1806.5	44.7			
FH (60°-80°)	472.3	11.7			G0/660
FVH (80°-90°)	5.6	0.1			G0/10
BL (0°-30°)	382.3	9.5	B1/500		
BM (30°-60°)	626.0	15.5	B1/1000		
BH (60°-80°)	243.1	6.0	B1/500		G1/500
BVH (80°-90°)	11.1	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1289.3	1289.3	1289.3	1289.3	1289.3	1289.3	1289.3	1289.3	1289.3	1289.3	1289.3
2.5°	1215.3	1218.7	1219.3	1229.9	1230.6	1245.8	1256.0	1254.0	1264.5	1277.5	1287.6
5°	1157.1	1157.5	1160.9	1173.5	1180.3	1200.3	1217.3	1217.3	1237.7	1264.2	1287.0
7.5°	1109.2	1108.9	1112.0	1125.9	1137.1	1161.2	1184.3	1187.1	1215.6	1254.3	1291.4
10°	1064.7	1067.1	1070.5	1087.5	1101.8	1131.7	1159.2	1163.6	1199.6	1247.5	1297.5
12.5°	1036.2	1036.5	1041.6	1060.6	1079.0	1110.9	1139.8	1145.3	1186.7	1241.1	1301.9
15°	1017.8	1018.2	1023.6	1044.7	1066.1	1098.4	1127.9	1134.0	1179.2	1240.1	1310.4
17.5°	1009.7	1009.3	1014.4	1035.5	1058.9	1092.6	1124.2	1131.7	1182.6	1247.9	1325.4
20°	1009.7	1010.0	1012.7	1031.7	1055.5	1091.2	1127.9	1137.1	1195.9	1265.6	1348.5
22.5°	1023.9	1025.3	1026.7	1039.6	1058.3	1093.3	1137.8	1150.0	1224.4	1295.1	1378.7
25°	1051.8	1052.1	1053.5	1064.0	1072.5	1099.0	1154.1	1172.4	1269.0	1338.3	1416.8
27.5°	1089.2	1093.9	1095.3	1102.1	1102.1	1113.3	1179.6	1206.1	1329.1	1400.5	1465.4
30°	1141.5	1143.2	1145.6	1153.1	1144.9	1140.2	1217.0	1250.9	1398.8	1475.6	1523.8
32.5°	1187.4	1191.1	1204.0	1216.3	1201.7	1186.7	1272.0	1312.1	1465.7	1553.7	1586.0
35°	1226.5	1235.7	1260.5	1287.6	1277.5	1262.5	1345.1	1386.9	1520.8	1609.8	1641.1
37.5°	1273.7	1280.9	1314.8	1359.0	1368.2	1361.1	1434.1	1464.0	1557.5	1624.1	1671.0
40°	1321.6	1332.5	1376.3	1437.5	1472.5	1477.6	1516.4	1536.4	1570.1	1596.2	1665.2
42.5°	1370.6	1389.3	1449.4	1520.8	1583.0	1594.5	1585.7	1594.2	1566.0	1557.8	1638.4
45°	1430.4	1452.5	1520.4	1611.5	1693.4	1711.4	1653.7	1645.8	1565.3	1543.2	1621.7
47.5°	1501.1	1523.2	1588.1	1694.1	1798.8	1812.0	1723.3	1709.0	1589.1	1565.6	1644.1
50°	1563.6	1578.9	1637.0	1755.6	1897.0	1904.8	1800.1	1782.8	1648.2	1627.8	1714.1
52.5°	1500.0	1498.3	1559.5	1705.6	1948.0	2042.1	1918.4	1901.7	1762.4	1731.1	1822.6
55°	1272.7	1253.3	1308.0	1451.8	1805.6	2164.1	2130.4	2097.1	1914.6	1835.1	1924.2
57.5°	930.5	925.0	938.3	1073.2	1446.4	1975.1	2260.3	2257.2	2046.2	1930.3	2025.4
60°	727.6	719.4	684.1	687.8	985.9	1542.9	1961.5	2051.6	2127.7	1987.4	2096.1
62.5°	646.0	639.9	621.6	570.9	587.2	1034.5	1437.9	1520.4	1859.3	1755.3	1800.5
65°	534.9	533.2	548.5	546.5	492.1	571.3	811.5	894.8	1169.0	1183.7	1169.0
67.5°	388.8	385.7	424.5	500.9	473.7	431.3	452.3	481.2	599.5	538.3	484.6
70°	252.8	248.4	270.9	361.9	424.1	375.9	325.9	321.1	329.6	204.9	221.6
72.5°	169.6	164.5	164.1	199.1	256.2	253.2	252.5	250.1	223.3	161.8	179.4
75°	94.5	90.4	89.4	86.0	91.8	93.5	99.6	103.0	111.5	122.7	135.9
77.5°	16.0	15.6	19.7	25.1	34.7	44.5	55.1	58.1	71.7	85.0	93.5
80°	8.8	9.2	11.9	14.6	19.4	26.5	34.0	36.0	44.2	51.3	58.1
82.5°	4.8	4.8	6.1	7.8	10.5	13.9	18.4	20.1	25.5	29.9	34.7
85°	1.7	1.7	2.4	3.1	4.4	5.8	7.1	8.2	11.2	15.3	17.3
87.5°	0.0	0.0	0.0	0.0	0.3	0.7	1.4	1.4	1.7	3.1	4.4
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1289.3	1289.3	1289.3	1289.3	1289.3	1289.3	1289.3	1289.3	1289.3	1289.3	1289.3
2.5°	1296.1	1287.0	1299.5	1305.3	1307.4	1308.7	1299.9	1293.8	1291.7	1285.3	1281.5
5°	1300.9	1294.8	1306.7	1306.7	1298.2	1289.3	1271.3	1258.8	1249.9	1239.4	1237.7
7.5°	1309.1	1304.6	1311.1	1297.8	1276.4	1252.6	1221.4	1196.9	1177.2	1164.3	1164.6
10°	1319.9	1314.5	1309.4	1279.8	1240.7	1196.9	1149.0	1113.3	1080.7	1065.7	1057.6
12.5°	1327.1	1319.3	1297.8	1248.9	1191.5	1132.7	1065.1	1012.0	964.8	943.4	941.7
15°	1335.9	1321.6	1278.8	1208.8	1128.9	1048.7	961.7	888.0	824.1	790.8	789.1
17.5°	1347.5	1324.0	1256.0	1162.9	1063.0	944.8	835.3	742.5	674.6	648.8	653.2
20°	1363.8	1326.7	1230.2	1112.0	981.1	826.5	690.2	604.9	578.7	577.0	573.6
22.5°	1382.1	1328.4	1201.7	1054.9	881.9	700.4	570.2	533.9	533.5	542.0	544.1
25°	1402.9	1329.8	1169.4	988.2	774.5	574.7	504.3	493.4	501.9	517.9	520.0
27.5°	1429.4	1332.5	1130.3	915.2	660.3	496.5	468.0	465.2	475.4	490.4	489.7
30°	1468.4	1342.4	1088.8	831.2	543.1	459.5	445.9	446.2	450.3	457.4	458.4
32.5°	1508.2	1357.7	1048.4	736.8	475.8	438.4	432.3	431.6	431.6	434.7	435.3
35°	1545.9	1375.0	1004.6	638.2	443.1	426.2	422.1	420.0	419.0	418.3	417.3
37.5°	1567.0	1383.5	961.7	541.0	425.8	418.0	413.9	411.2	407.5	404.7	404.1
40°	1557.8	1373.6	912.1	468.3	415.3	410.2	405.4	401.7	396.6	394.2	392.9
42.5°	1527.2	1343.0	858.1	434.0	406.8	401.7	395.9	389.8	386.4	384.4	384.0
45°	1494.9	1306.0	792.8	413.9	398.6	392.5	385.7	378.9	375.2	374.2	373.8
47.5°	1493.9	1287.6	723.5	398.0	388.8	382.7	374.2	367.4	363.3	361.9	360.6
50°	1538.8	1306.3	645.4	384.0	378.6	372.1	362.6	355.1	350.0	348.3	348.0
52.5°	1631.9	1376.7	575.3	370.1	365.0	357.5	349.7	342.2	336.1	333.0	332.7
55°	1732.5	1466.1	531.8	355.8	349.0	342.6	335.4	327.3	320.5	315.7	315.0
57.5°	1836.5	1563.6	518.6	337.8	332.7	328.3	319.8	311.0	303.1	298.7	297.7
60°	1922.1	1647.5	543.4	318.8	316.0	310.3	302.5	294.0	288.5	285.1	284.4
62.5°	1609.1	1341.3	438.7	298.0	298.0	291.9	283.1	277.0	273.2	270.9	270.2
65°	1021.2	830.6	299.4	277.3	277.0	268.8	261.3	257.3	255.6	251.8	251.1
67.5°	444.8	379.6	255.9	256.2	254.9	246.0	238.6	235.5	232.1	228.0	227.7
70°	230.8	235.2	229.1	232.8	230.4	219.9	212.7	208.0	200.8	196.8	197.1
72.5°	186.2	191.0	197.8	203.6	198.5	190.0	178.8	173.0	163.8	159.4	159.7
75°	142.1	147.2	153.6	159.7	155.6	145.1	138.0	132.2	121.7	116.6	117.6
77.5°	97.9	100.6	108.4	108.1	106.7	103.7	93.1	86.3	75.4	69.3	70.0
80°	60.8	62.5	66.3	68.0	67.3	63.2	54.7	49.6	43.2	39.4	39.8
82.5°	36.7	37.7	41.1	41.5	41.1	38.1	31.6	27.9	23.8	21.7	21.7
85°	18.7	19.4	21.4	21.4	19.4	16.3	14.6	12.9	10.5	9.5	9.5
87.5°	5.1	5.1	6.5	5.4	4.4	4.1	2.0	1.7	0.7	0.3	0.3
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)