

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: P629720

Luminaire Tested: GWS-SA1C-730-U-AFL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P629720  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1C-730-U-AFL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (16) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

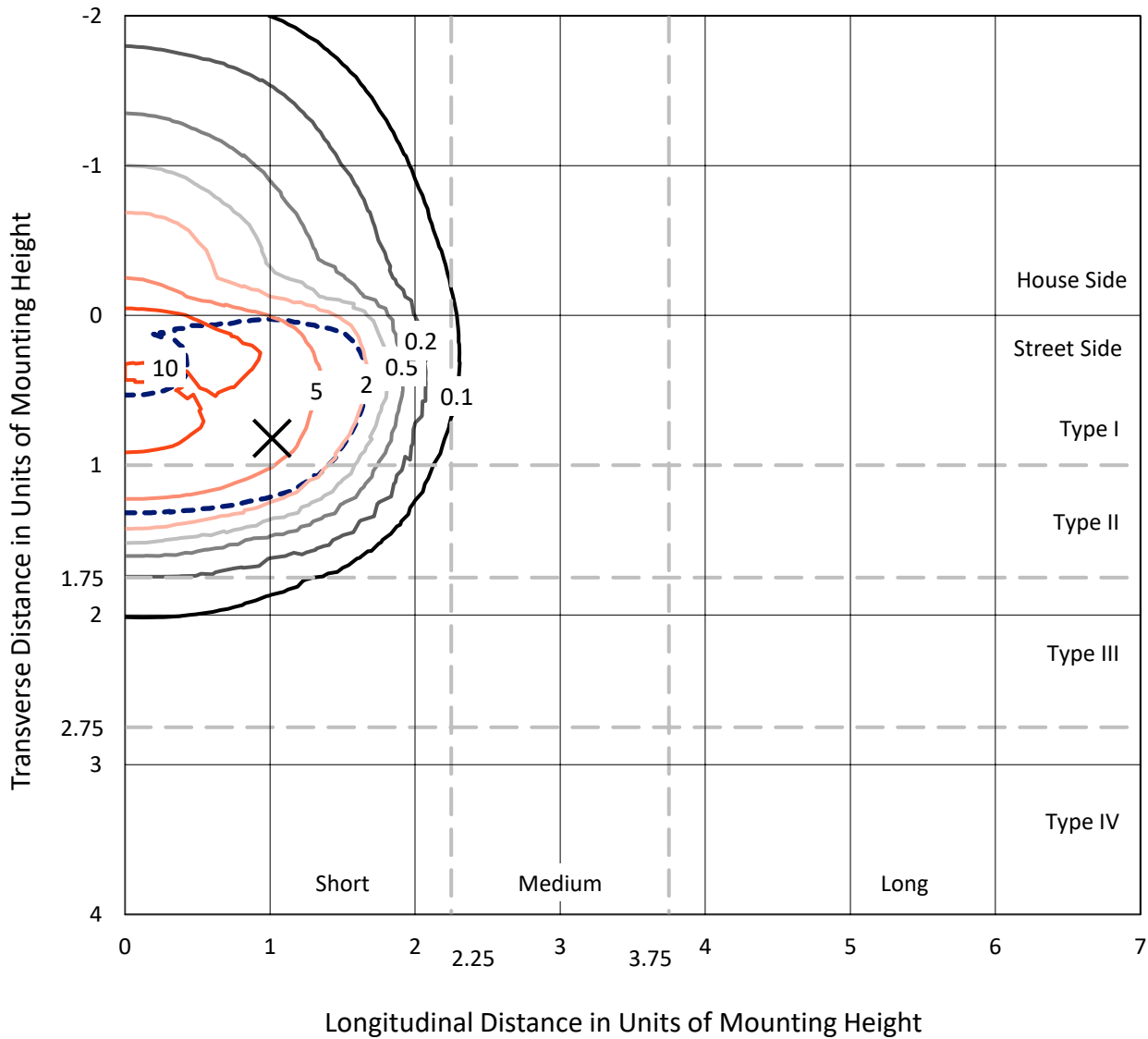
Lumens per Lamp: N/A  
Luminaire Lumens: 3970.8 lumens  
Efficiency: N/A  
Efficacy: 116.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 34.1  
Input Voltage (V): 120  
Input Current (Ain): 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

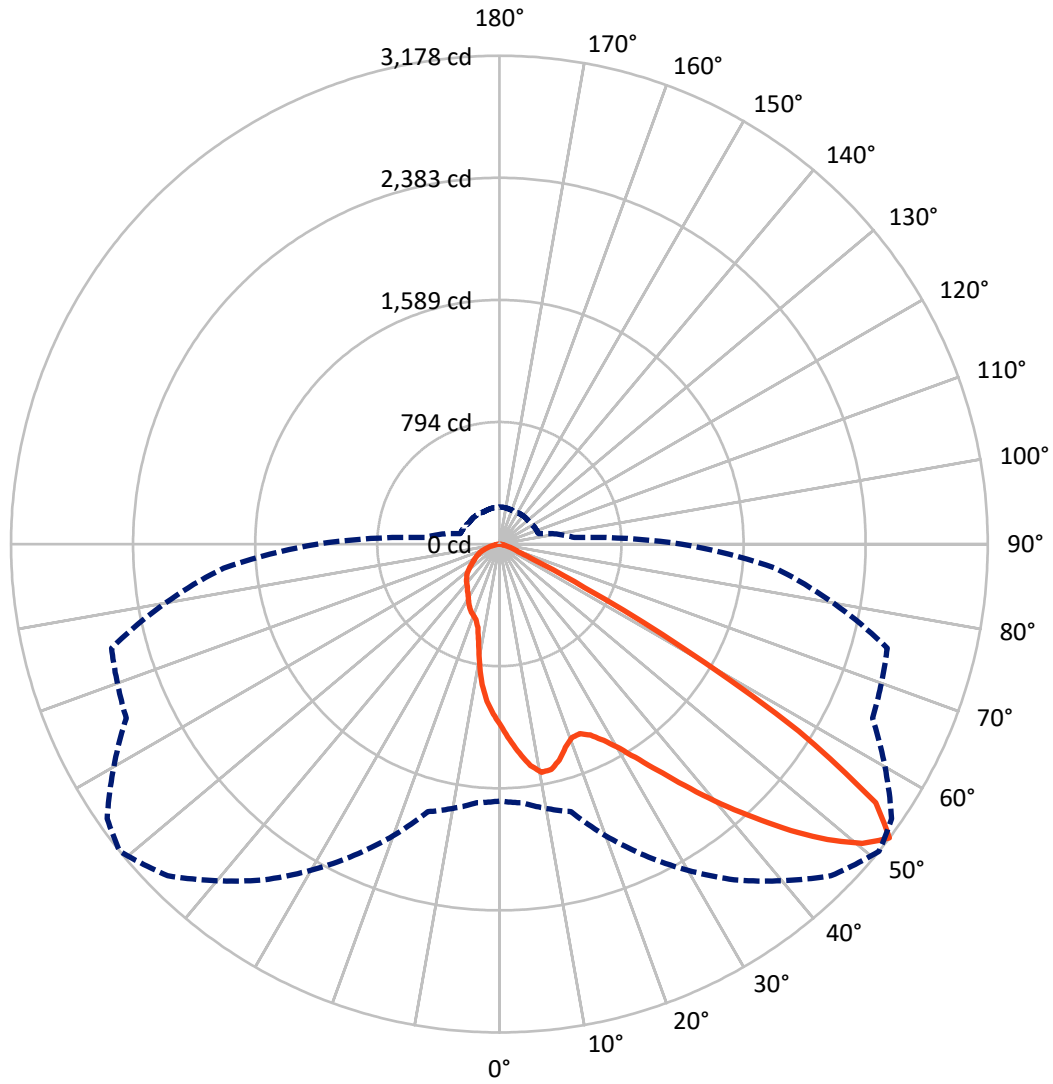
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	773.7	0.0	773.7
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	3197.1	0.0	3197.1
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	3970.8	0.0	3970.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.3	2.8
10°-20°	286.7	7.2
20°-30°	466.1	11.7
30°-40°	738.7	18.6
40°-50°	1114.1	28.1
50°-60°	963.8	24.3
60°-70°	218.5	5.5
70°-80°	64.4	1.6
80°-90°	8.3	0.2
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°	3970.8	100.0
0°-180°	3970.8	100.0

**Coefficient of Utilization**



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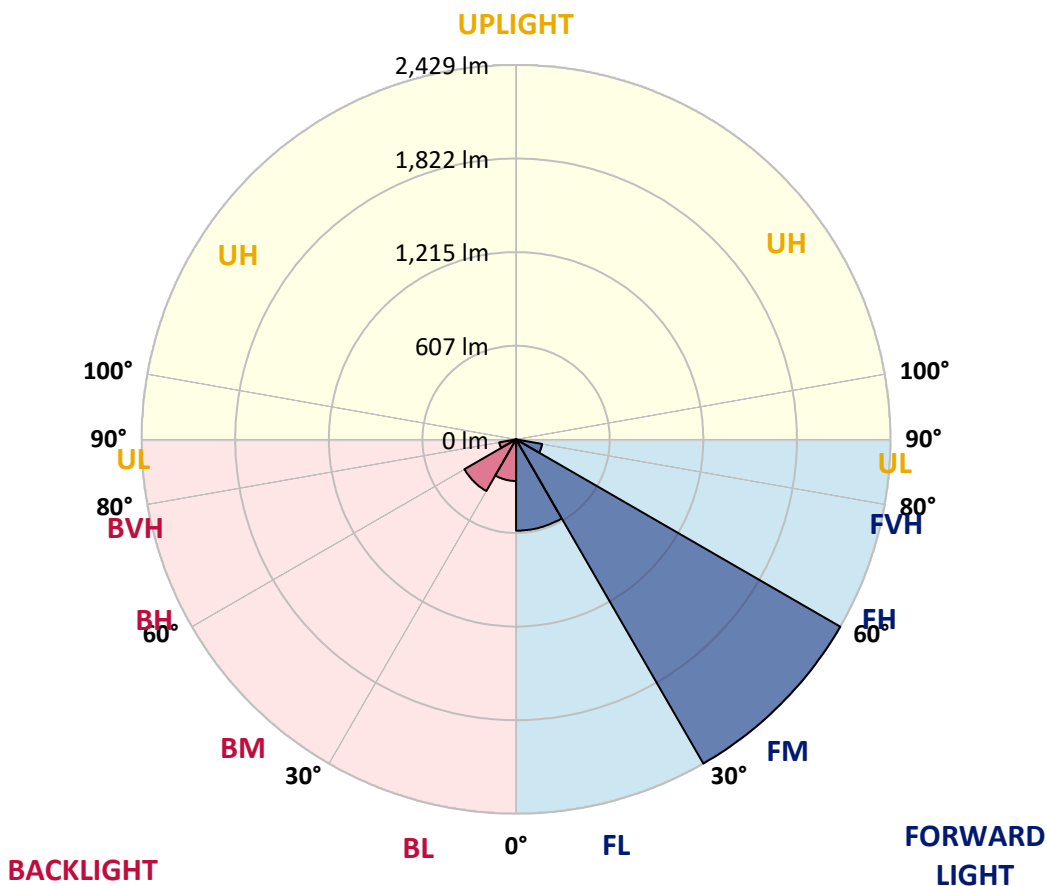
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	592.7	14.9			
FM (30°-60°)	2429.4	61.2			
FH (60°-80°)	172.0	4.3			G0/660
FVH (80°-90°)	3.1	0.1			G0/10
BL (0°-30°)	270.4	6.8	B1/500		
BM (30°-60°)	387.1	9.7	B1/1000		
BH (60°-80°)	111.0	2.8	B1/500		G1/500
BVH (80°-90°)	5.2	0.1			G0/10
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°	51°	55°	65°	75°	85°
0°	1182.3	1182.3	1182.3	1182.3	1182.3	1182.3	1182.3	1182.3	1182.3	1182.3	1182.3
2.5°	1317.5	1325.1	1313.5	1309.1	1301.9	1289.3	1274.9	1270.8	1239.7	1219.3	1196.4
5°	1450.0	1454.0	1444.6	1435.2	1417.3	1395.0	1367.1	1361.2	1304.7	1257.9	1209.3
7.5°	1479.5	1477.9	1486.0	1491.4	1489.2	1480.4	1455.6	1444.0	1376.5	1302.5	1230.6
10°	1362.7	1353.9	1384.1	1419.8	1462.8	1512.4	1509.6	1508.6	1450.0	1362.4	1257.9
12.5°	1208.0	1203.6	1228.1	1273.0	1354.3	1464.1	1505.2	1537.2	1516.2	1419.5	1288.4
15°	1119.6	1118.0	1134.6	1166.9	1231.6	1370.3	1458.1	1521.5	1573.0	1480.7	1320.7
17.5°	1103.5	1104.5	1110.1	1128.6	1175.1	1289.3	1391.0	1479.5	1617.2	1547.9	1361.2
20°	1150.3	1156.6	1146.8	1149.7	1174.8	1260.1	1345.2	1437.1	1645.4	1615.3	1404.8
22.5°	1254.2	1252.0	1230.6	1218.1	1218.4	1278.0	1340.1	1417.3	1664.0	1680.9	1444.3
25°	1371.8	1369.3	1343.9	1316.0	1298.4	1326.6	1376.2	1438.3	1680.6	1740.8	1476.0
27.5°	1510.8	1503.0	1474.7	1439.0	1400.1	1412.3	1445.9	1495.1	1706.3	1799.8	1497.0
30°	1645.4	1654.5	1614.1	1571.7	1530.6	1523.1	1542.5	1587.1	1758.7	1868.8	1522.1
32.5°	1824.0	1820.8	1776.0	1720.7	1662.1	1656.4	1671.8	1712.6	1852.8	1964.2	1560.4
35°	2040.2	2040.8	1977.1	1902.4	1819.0	1803.9	1829.6	1869.2	1993.1	2093.5	1621.0
37.5°	2264.8	2263.9	2208.4	2123.6	2009.7	1988.4	2017.9	2047.4	2168.5	2269.5	1715.1
40°	2422.3	2428.6	2402.6	2358.0	2250.1	2198.0	2224.0	2244.4	2359.3	2476.6	1839.0
42.5°	2511.8	2521.2	2526.8	2553.5	2496.7	2441.2	2431.8	2442.4	2529.7	2669.0	1955.4
45°	2530.9	2543.5	2584.6	2683.4	2705.4	2689.7	2658.9	2633.2	2656.7	2805.5	2031.7
47.5°	2446.5	2468.5	2556.3	2729.2	2857.6	2906.8	2872.6	2833.4	2730.2	2840.6	2023.9
50°	2112.0	2137.8	2335.7	2635.7	2879.2	3058.7	3061.8	3003.8	2721.4	2739.3	1925.3
52.5°	1672.1	1689.7	1803.0	2234.4	2666.8	3052.4	3177.9	3115.8	2679.0	2612.5	1802.0
55°	999.4	1027.6	1133.4	1474.1	2077.5	2705.4	2972.7	3002.8	2658.3	2506.1	1717.9
57.5°	337.3	351.1	452.2	651.1	1224.4	1980.9	2296.8	2419.2	2413.2	2343.6	1553.8
60°	160.7	163.8	184.2	246.9	490.1	1035.1	1359.6	1500.8	1629.4	1642.3	966.7
62.5°	122.4	124.3	134.6	148.1	197.1	436.1	623.2	731.1	781.0	670.2	352.1
65°	102.3	103.9	111.7	120.2	134.0	188.9	239.1	275.8	248.5	193.6	167.9
67.5°	85.3	86.6	92.6	101.7	111.1	126.5	132.7	136.5	143.1	160.7	154.4
70°	66.8	68.1	74.4	82.2	91.3	95.1	101.0	104.8	118.0	140.6	139.9
72.5°	51.5	53.0	56.5	61.5	69.0	72.8	79.4	83.8	91.3	109.5	117.0
75°	37.7	38.6	41.7	43.3	44.2	43.3	49.9	54.9	65.0	71.9	73.7
77.5°	15.4	17.3	16.6	16.6	19.8	23.8	27.3	30.4	37.3	41.4	41.7
80°	6.3	6.9	8.2	9.1	11.0	14.1	16.3	17.6	20.7	23.2	25.1
82.5°	3.8	4.1	4.7	5.0	6.3	8.2	9.4	10.4	12.9	15.4	16.3
85°	1.9	1.9	2.2	2.5	3.1	3.8	4.4	5.0	6.6	8.2	9.1
87.5°	0.3	0.3	0.3	0.6	0.9	1.3	1.6	1.9	2.2	2.5	3.1
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°	1182.3	1182.3	1182.3	1182.3	1182.3	1182.3	1182.3	1182.3	1182.3	1182.3	1182.3
2.5°	1182.9	1166.0	1146.2	1130.5	1112.3	1098.8	1079.7	1067.8	1056.5	1047.1	1040.2
5°	1184.2	1155.6	1114.5	1078.1	1040.5	1004.7	968.0	938.2	911.5	889.2	887.4
7.5°	1191.4	1150.3	1086.0	1022.3	948.9	877.9	807.0	749.3	705.4	682.5	677.8
10°	1203.6	1149.7	1056.8	955.1	829.9	715.7	631.6	587.7	562.3	553.2	550.0
12.5°	1216.5	1148.1	1019.5	860.4	686.5	586.4	540.3	535.0	539.7	540.3	540.0
15°	1232.2	1147.2	972.4	749.3	581.7	526.5	529.7	540.9	551.9	554.4	554.4
17.5°	1251.3	1145.0	908.4	640.7	516.2	514.9	531.5	546.6	557.0	558.8	558.8
20°	1271.4	1139.3	829.6	552.2	489.5	507.7	525.6	537.2	544.4	546.9	547.2
22.5°	1285.2	1124.3	738.9	486.7	472.9	493.9	506.7	518.7	518.7	512.4	510.5
25°	1288.0	1091.9	640.7	441.8	453.1	472.5	485.7	478.8	466.0	460.9	460.6
27.5°	1277.7	1044.9	543.8	409.8	429.2	448.7	446.5	436.5	430.8	425.8	427.7
30°	1265.1	988.4	459.7	383.4	401.6	420.8	413.2	409.8	405.7	400.1	401.3
32.5°	1256.7	925.3	395.0	363.0	383.1	386.3	391.6	391.3	387.5	376.8	376.2
35°	1259.2	861.6	351.7	346.4	367.7	366.5	376.5	374.6	348.6	333.9	332.9
37.5°	1279.3	800.4	326.3	333.2	343.3	351.1	359.9	337.3	328.2	318.8	319.4
40°	1317.5	743.6	312.5	326.0	328.5	340.1	319.7	319.4	315.3	306.9	306.6
42.5°	1360.8	695.6	303.1	322.6	319.1	321.3	299.7	302.2	301.9	296.5	294.9
45°	1387.2	651.4	295.6	309.7	310.6	288.7	282.1	284.9	286.5	283.7	283.3
47.5°	1359.9	600.6	287.7	289.9	298.1	273.9	265.8	266.1	268.9	269.2	268.0
50°	1283.3	543.8	278.3	273.0	267.7	258.6	251.0	249.5	252.3	255.1	256.0
52.5°	1184.5	489.5	262.6	254.5	241.9	241.9	238.5	233.4	237.2	241.0	242.2
55°	1112.0	449.3	240.4	231.3	217.4	222.2	221.5	217.1	222.2	225.0	225.9
57.5°	963.6	361.2	211.5	208.7	197.1	202.7	204.0	198.3	195.8	196.4	197.4
60°	572.0	233.1	190.8	190.5	180.1	186.7	190.5	184.8	177.3	178.2	179.5
62.5°	256.7	178.2	164.7	163.5	163.2	171.6	175.7	170.4	159.7	160.7	161.9
65°	161.6	154.1	143.1	143.1	148.1	155.3	158.5	154.1	141.8	140.3	141.5
67.5°	150.0	143.4	132.1	129.9	132.4	138.4	138.7	130.2	123.0	121.7	121.7
70°	134.6	129.6	118.6	114.2	113.3	113.0	112.0	109.8	105.1	103.9	104.5
72.5°	111.4	107.9	101.0	96.3	93.8	93.5	89.7	87.9	83.8	83.2	82.8
75°	73.7	74.7	74.7	74.1	71.9	70.9	66.8	65.0	60.2	58.4	58.0
77.5°	43.6	44.6	45.8	46.1	45.8	45.8	42.0	39.8	35.1	32.6	32.0
80°	26.7	27.3	27.9	28.9	27.6	26.7	23.2	21.0	18.8	17.3	16.9
82.5°	17.3	17.9	18.2	18.8	18.2	16.9	14.1	12.9	11.3	10.0	9.7
85°	9.7	10.0	10.7	10.7	9.7	8.8	7.2	6.3	5.3	4.7	4.7
87.5°	3.5	3.5	3.5	3.8	3.1	2.8	1.9	1.3	0.9	0.9	0.9
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)