

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: P631048

Luminaire Tested: GWS-SA1E-830-U-SL3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631048  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1E-830-U-SL3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (16) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

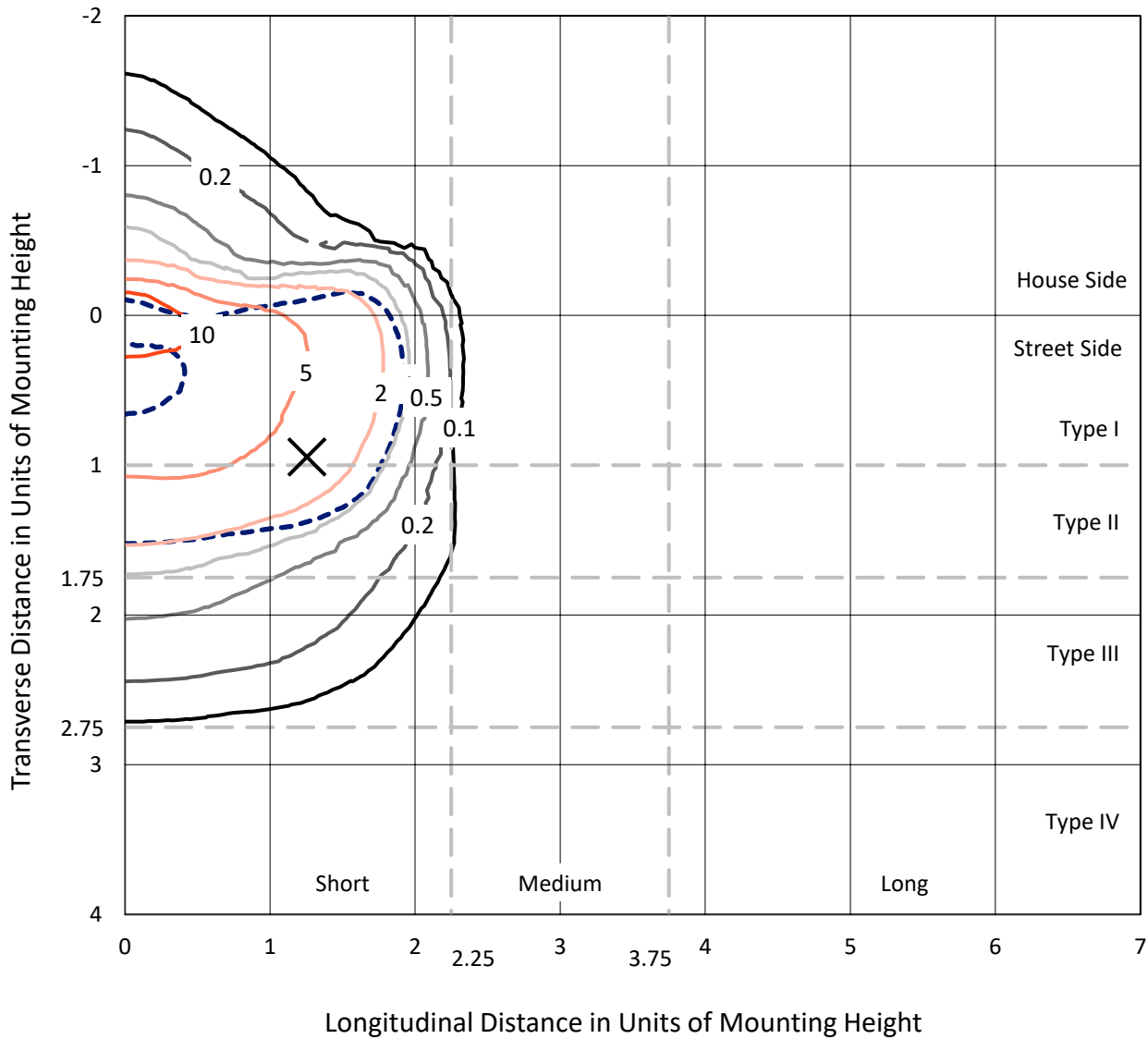
Lumens per Lamp: N/A  
Luminaire Lumens: 3520.8 lumens  
Efficiency: N/A  
Efficacy: 60.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 58.4  
Input Voltage (V): 120  
Input Current (Ain): 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

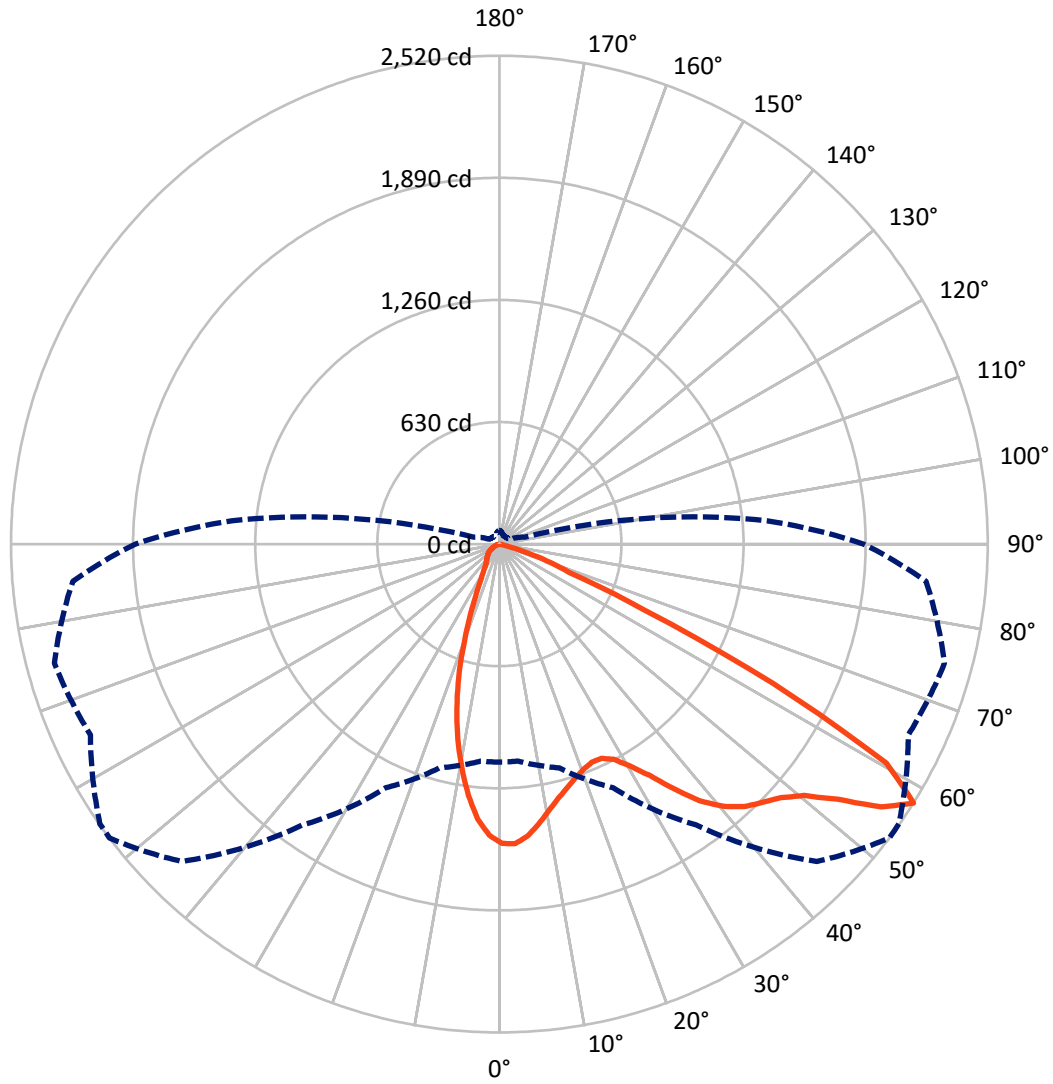
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.4 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	581.6	0.0	581.6
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	2939.2	0.0	2939.2
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	3520.8	0.0	3520.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.1	3.8
10°-20°	290.1	8.2
20°-30°	377.9	10.7
30°-40°	548.2	15.6
40°-50°	791.0	22.5
50°-60°	956.6	27.2
60°-70°	389.9	11.1
70°-80°	35.0	1.0
80°-90°	0.0	0.0
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°	3520.8	100.0
0°-180°	3520.8	100.0

**Coefficient of Utilization**



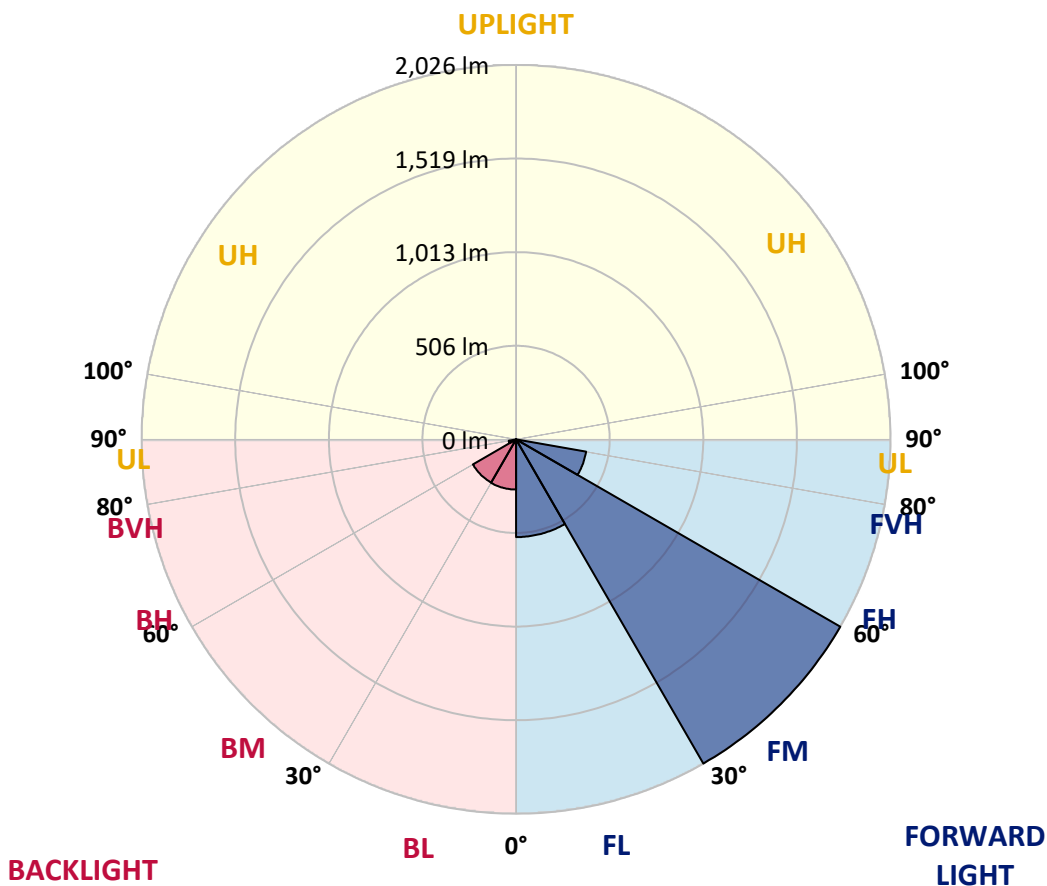
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	528.7	15.0			
FM (30°-60°)	2025.8	57.5			
FH (60°-80°)	384.7	10.9			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	271.4	7.7	B1/500		
BM (30°-60°)	269.9	7.7	B1/1000		
BH (60°-80°)	40.2	1.1	B0/110		G0/110
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4
2.5°	1522.8	1526.3	1532.3	1540.1	1545.3	1547.9	1547.9	1555.2	1550.5	1546.6	1542.3
5°	1457.7	1461.1	1469.3	1481.9	1494.4	1503.4	1513.8	1521.6	1524.6	1524.6	1517.2
7.5°	1365.8	1370.5	1375.7	1393.0	1420.1	1440.4	1458.1	1469.3	1485.7	1490.9	1480.6
10°	1267.0	1271.7	1283.4	1307.1	1338.2	1368.4	1398.6	1412.8	1440.9	1455.5	1443.9
12.5°	1183.2	1185.4	1200.9	1229.4	1269.1	1310.5	1347.2	1361.9	1401.6	1423.6	1409.8
15°	1114.2	1115.5	1131.0	1162.5	1208.3	1259.2	1305.4	1320.5	1369.2	1402.5	1381.7
17.5°	1062.0	1062.4	1075.8	1109.9	1157.8	1214.3	1269.1	1287.7	1350.7	1390.8	1359.7
20°	1035.7	1034.4	1043.9	1073.6	1118.9	1175.5	1240.2	1263.1	1340.3	1389.1	1342.9
22.5°	1036.1	1033.1	1037.0	1058.1	1096.5	1149.6	1222.1	1248.0	1341.2	1396.4	1328.7
25°	1060.7	1056.4	1057.2	1068.5	1095.6	1144.0	1224.7	1252.3	1358.4	1421.0	1323.5
27.5°	1102.1	1097.4	1097.4	1103.0	1117.6	1161.7	1257.0	1288.5	1404.6	1468.9	1334.3
30°	1155.6	1150.9	1149.1	1154.8	1166.8	1207.4	1329.1	1361.9	1483.6	1547.4	1368.8
32.5°	1216.9	1211.3	1214.3	1222.1	1233.7	1289.8	1421.9	1465.5	1582.4	1653.2	1430.9
35°	1281.6	1276.9	1290.7	1307.5	1325.6	1404.2	1550.0	1588.0	1703.7	1784.8	1525.9
37.5°	1343.3	1341.2	1370.1	1405.5	1443.0	1541.4	1680.4	1709.7	1807.7	1928.0	1641.9
40°	1405.0	1404.6	1454.2	1516.4	1576.4	1678.2	1779.2	1803.3	1871.1	2039.4	1753.3
42.5°	1474.1	1474.1	1542.7	1625.6	1705.4	1793.8	1851.7	1862.5	1899.6	2103.7	1837.0
45°	1540.1	1544.0	1623.4	1719.6	1814.1	1884.0	1901.7	1902.6	1911.2	2141.7	1906.5
47.5°	1592.3	1595.8	1690.7	1801.6	1903.5	1952.6	1955.2	1951.4	1941.9	2177.9	1960.0
50°	1634.6	1639.8	1739.0	1856.4	1964.7	2018.7	2038.5	2034.6	2010.5	2216.7	1997.5
52.5°	1655.3	1662.7	1755.9	1883.6	2032.9	2131.7	2187.0	2196.0	2113.2	2238.3	2033.3
55°	1489.6	1500.4	1586.3	1761.0	2070.9	2306.5	2393.2	2391.5	2224.5	2302.6	2120.5
57.5°	1125.0	1124.1	1195.3	1386.5	1768.8	2316.4	2520.1	2516.6	2328.5	2377.3	2209.8
60°	766.0	760.8	779.8	872.1	1236.7	1887.1	2293.5	2340.2	2254.7	2196.0	1876.3
62.5°	630.5	625.7	619.7	594.2	710.3	1175.5	1584.6	1655.3	1644.1	1526.3	1176.8
65°	516.1	520.0	536.8	526.0	494.1	602.8	822.5	864.3	790.1	665.0	411.2
67.5°	380.6	382.3	404.3	461.3	444.0	401.3	387.1	394.0	230.9	106.2	68.6
70°	224.8	226.1	246.4	322.8	360.3	308.1	261.5	257.6	91.5	28.5	31.1
72.5°	127.3	124.7	128.6	153.6	196.3	163.5	134.6	122.6	27.6	16.0	16.0
75°	60.4	58.7	50.5	47.5	43.2	27.6	17.3	14.7	6.9	6.5	6.5
77.5°	0.4	1.3	0.9	1.3	1.3	0.9	0.4	0.4	1.3	1.3	1.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4	1544.4
2.5°	1534.5	1521.6	1518.5	1517.7	1505.6	1492.6	1479.3	1474.1	1466.3	1461.6	1465.5
5°	1505.6	1487.0	1470.6	1455.5	1428.8	1399.4	1374.0	1357.6	1342.0	1331.7	1334.3
7.5°	1464.6	1440.4	1402.9	1364.5	1315.3	1271.3	1222.1	1191.9	1163.8	1148.3	1155.6
10°	1421.0	1389.1	1329.1	1263.9	1186.7	1117.6	1047.3	989.9	956.7	925.2	928.6
12.5°	1378.3	1336.0	1246.2	1147.4	1049.9	948.1	841.9	762.5	708.1	668.9	662.8
15°	1338.6	1284.2	1165.5	1035.2	902.3	766.8	631.3	517.8	454.8	416.0	413.4
17.5°	1303.2	1235.9	1081.8	917.9	751.3	577.8	422.0	337.0	300.8	283.9	282.2
20°	1269.1	1187.1	996.4	798.8	586.4	405.6	291.3	252.0	240.4	233.5	234.3
22.5°	1236.3	1134.0	906.6	666.7	439.7	284.8	225.7	210.6	209.3	210.2	210.6
25°	1208.7	1085.3	814.3	539.4	313.7	217.1	188.6	184.3	188.1	193.8	194.6
27.5°	1194.5	1045.6	724.1	411.2	227.0	176.5	163.5	165.3	172.2	178.2	179.1
30°	1198.3	1015.8	630.9	298.2	174.8	148.9	144.6	148.0	154.9	160.5	161.4
32.5°	1226.0	1000.7	535.5	217.1	143.7	129.9	128.2	130.8	136.8	141.1	141.5
35°	1280.8	1004.2	444.9	166.1	123.4	115.6	115.2	116.9	120.0	123.0	123.4
37.5°	1361.5	1032.2	355.6	138.1	111.8	106.2	104.4	104.4	106.6	107.9	108.7
40°	1448.2	1074.5	284.8	122.1	103.6	97.5	94.1	92.8	94.5	96.2	96.7
42.5°	1519.8	1116.8	231.3	110.9	97.1	88.9	84.6	83.7	85.9	88.9	89.8
45°	1574.6	1149.6	192.9	101.8	89.8	80.7	75.9	75.9	79.8	85.0	85.9
47.5°	1624.7	1175.9	164.4	93.6	82.9	73.4	68.6	69.5	75.9	82.9	84.1
50°	1658.8	1197.0	143.3	86.3	77.2	67.3	63.0	64.7	72.5	80.7	82.0
52.5°	1695.5	1222.9	129.5	79.8	72.1	62.6	58.7	60.0	68.6	77.7	79.4
55°	1796.9	1309.7	129.0	71.2	63.0	56.1	54.4	54.8	63.4	73.8	75.9
57.5°	1879.7	1386.1	137.7	60.0	52.6	49.2	48.3	48.8	56.5	68.2	70.8
60°	1555.2	1077.1	113.9	49.6	44.0	43.2	41.9	42.7	50.1	60.4	62.6
62.5°	920.4	615.8	54.4	38.0	37.5	36.7	35.4	37.1	44.0	53.1	54.4
65°	314.6	182.5	34.5	31.1	31.9	30.6	29.3	31.1	37.1	42.3	42.7
67.5°	60.4	48.3	27.6	25.9	26.3	23.7	23.3	25.0	28.5	29.3	28.9
70°	31.5	28.0	21.1	21.1	20.3	16.8	16.8	18.6	18.6	17.3	16.8
72.5°	16.4	15.5	13.8	15.5	12.9	10.4	10.4	11.2	10.4	8.6	8.6
75°	6.5	6.5	6.0	7.8	5.6	4.7	4.3	5.2	3.9	3.0	3.0
77.5°	1.7	1.7	1.7	2.2	1.3	1.3	0.9	0.9	0.4	0.0	0.0
80°	0.0	0.4	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)