

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: P631039

Luminaire Tested: GWS-SA1E-830-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631039  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1E-830-U-AFL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (16) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

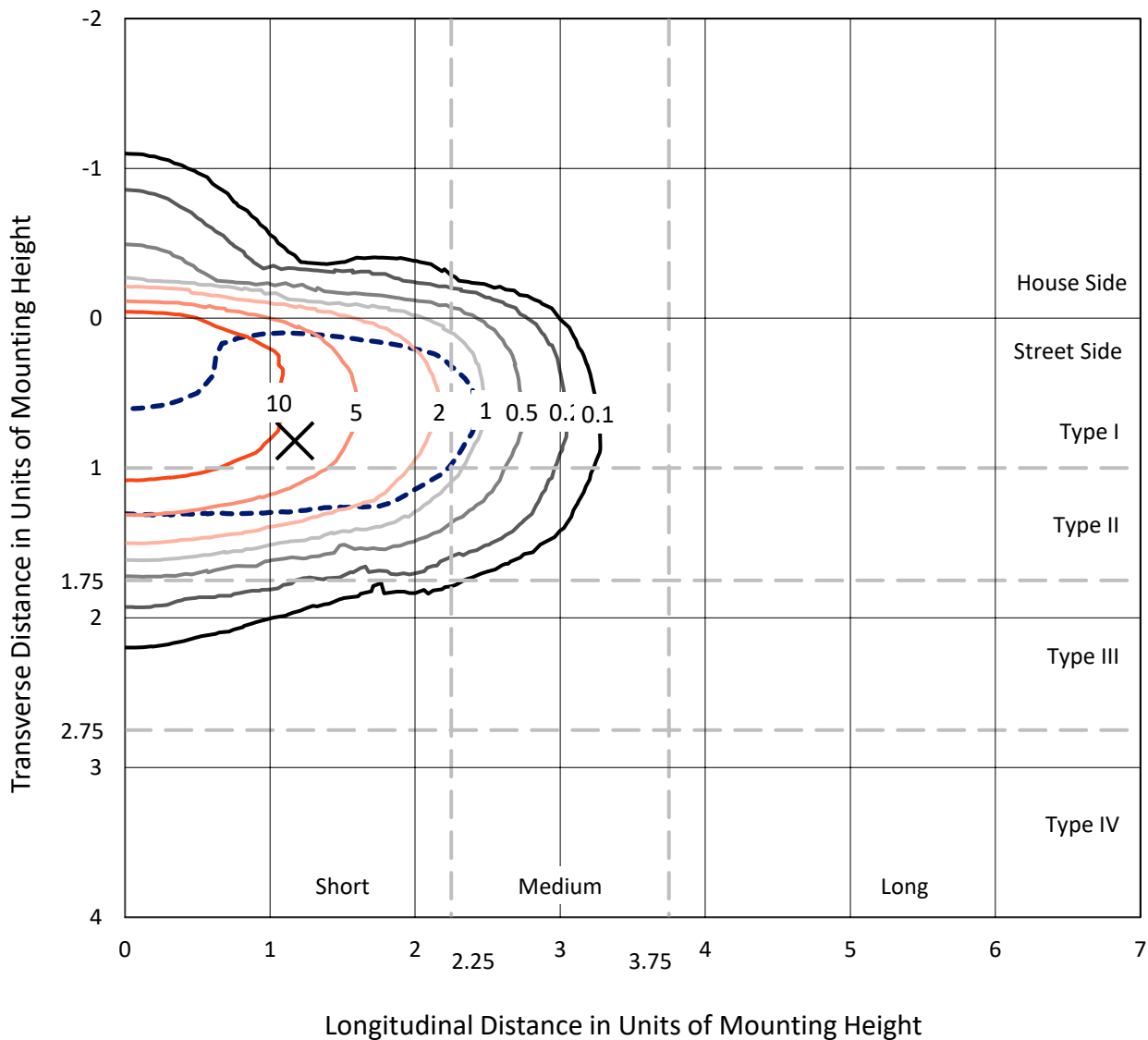
Lumens per Lamp: N/A  
Luminaire Lumens: 5048 lumens  
Efficiency: N/A  
Efficacy: 86.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 58.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

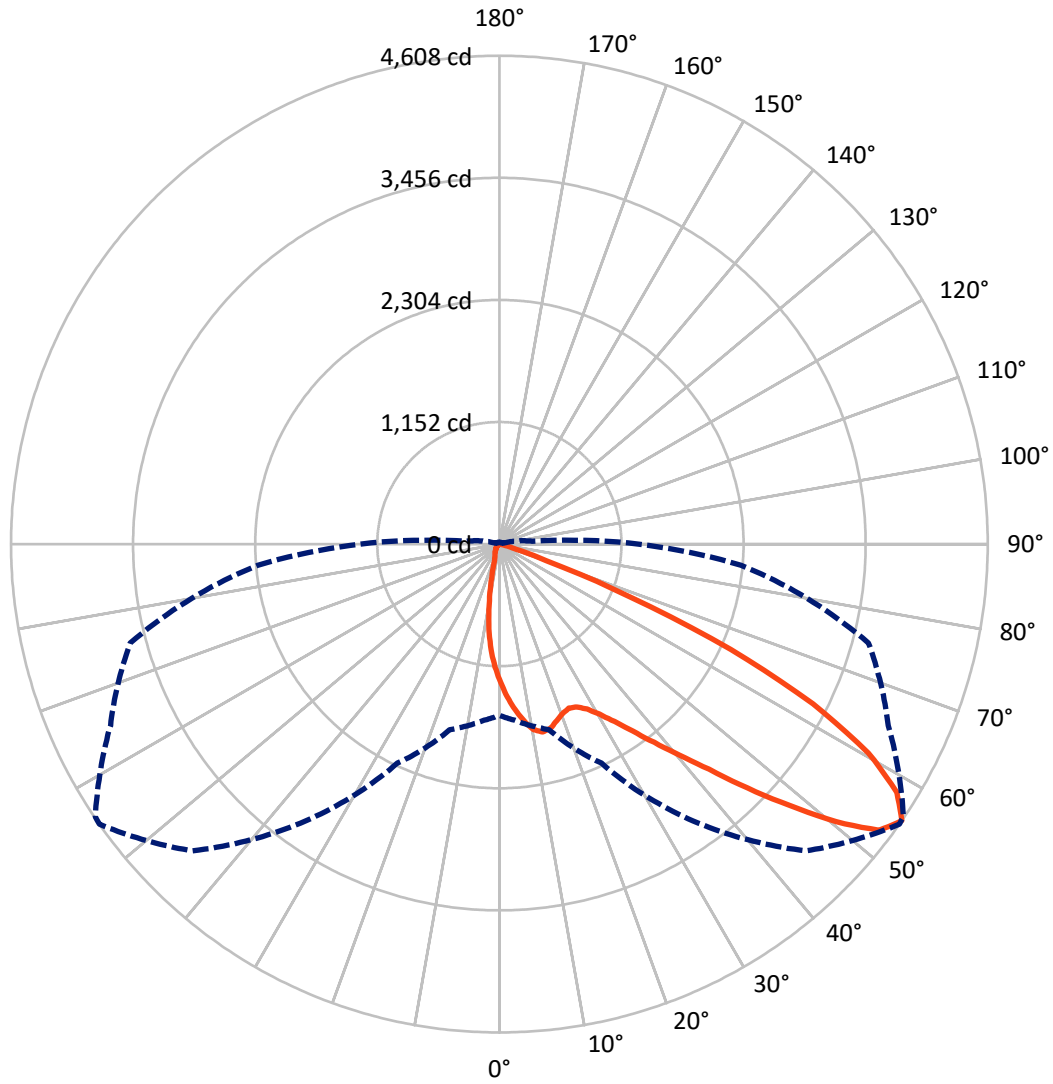
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	311.5	0.0	311.5
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	4736.5	0.0	4736.5
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	5048.0	0.0	5048.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.3	2.3
10°-20°	277.9	5.5
20°-30°	462.7	9.2
30°-40°	788.5	15.6
40°-50°	1287.2	25.5
50°-60°	1347.6	26.7
60°-70°	679.7	13.5
70°-80°	85.9	1.7
80°-90°	3.3	0.1
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°	5048.0	100.0
0°-180°	5048.0	100.0

**Coefficient of Utilization**



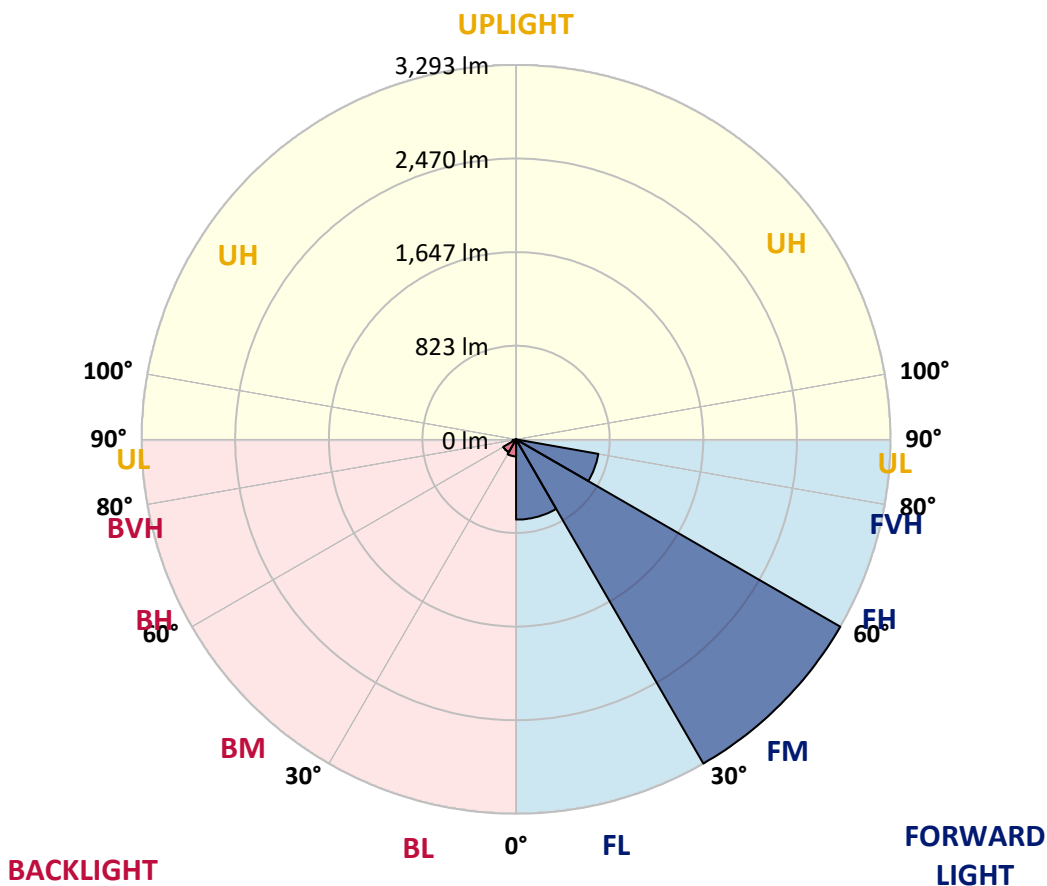
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	706.1	14.0			
FM (30°-60°)	3293.1	65.2			
FH (60°-80°)	734.3	14.5			G1/1800
FVH (80°-90°)	3.0	0.1			G0/10
BL (0°-30°)	149.7	3.0	B1/500		
BM (30°-60°)	130.2	2.6	B0/220		
BH (60°-80°)	31.2	0.6	B0/110		G0/110
BVH (80°-90°)	0.3	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-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1304.1	1304.1	1304.1	1304.1	1304.1	1304.1	1304.1	1304.1	1304.1	1304.1	1304.1
2.5°	1520.3	1513.0	1524.2	1511.2	1489.2	1470.7	1446.5	1437.9	1399.0	1362.4	1327.0
5°	1705.0	1707.2	1703.7	1685.6	1654.5	1620.0	1571.2	1560.4	1492.7	1422.8	1347.3
7.5°	1750.7	1749.5	1756.8	1763.7	1758.5	1741.3	1688.2	1677.4	1593.2	1488.4	1378.3
10°	1609.6	1610.5	1625.6	1672.2	1730.0	1790.0	1781.8	1775.8	1693.4	1562.6	1412.9
12.5°	1410.3	1418.0	1434.0	1500.5	1598.4	1734.8	1819.4	1825.4	1785.3	1644.2	1453.4
15°	1324.0	1325.7	1338.6	1378.8	1451.7	1620.0	1803.4	1820.2	1862.1	1726.2	1497.4
17.5°	1321.8	1324.0	1329.6	1347.3	1394.7	1529.8	1752.0	1781.4	1919.9	1814.2	1550.1
20°	1402.9	1401.6	1397.8	1388.3	1409.0	1500.0	1704.6	1736.9	1951.4	1900.1	1603.2
22.5°	1550.1	1548.4	1531.1	1491.8	1475.0	1527.2	1681.3	1710.6	1970.4	1976.4	1646.7
25°	1719.7	1731.8	1699.4	1639.8	1598.4	1596.7	1702.0	1722.7	1986.8	2044.2	1676.5
27.5°	1905.7	1909.6	1881.9	1815.0	1755.1	1708.0	1762.0	1777.5	2004.9	2104.6	1693.4
30°	2109.8	2108.5	2077.0	1999.3	1926.4	1858.6	1862.9	1869.0	2047.2	2173.7	1711.9
32.5°	2364.8	2370.4	2314.3	2208.6	2121.0	2027.4	1995.0	1995.9	2123.6	2262.6	1740.0
35°	2711.4	2697.5	2623.3	2472.7	2323.4	2222.4	2167.2	2162.4	2241.4	2382.1	1788.7
37.5°	3041.5	3042.8	2965.1	2799.4	2610.8	2451.6	2373.5	2360.5	2407.1	2547.8	1869.9
40°	3270.6	3274.9	3242.6	3155.8	2956.0	2730.8	2616.0	2602.6	2622.0	2757.5	1976.0
42.5°	3391.9	3404.0	3413.0	3433.3	3281.8	3079.5	2903.0	2901.7	2881.4	2996.6	2099.0
45°	3396.6	3414.8	3470.0	3608.5	3625.8	3477.3	3285.3	3256.4	3178.3	3252.5	2209.0
47.5°	3208.9	3250.8	3368.2	3642.6	3823.9	3873.1	3682.7	3665.1	3445.8	3454.9	2291.5
50°	2771.3	2814.9	3031.1	3467.8	3873.9	4187.2	4119.0	4082.3	3669.4	3588.7	2331.2
52.5°	2322.5	2362.2	2509.0	3051.8	3666.3	4286.0	4486.7	4443.1	3870.0	3635.3	2314.8
55°	1616.1	1669.2	1812.5	2281.1	3188.2	4093.6	4608.4	4599.3	4049.1	3605.9	2289.3
57.5°	792.3	845.0	987.8	1406.4	2361.8	3574.0	4422.4	4470.3	4156.1	3574.4	2268.6
60°	331.0	352.6	401.8	617.1	1321.4	2701.0	4002.5	4069.0	4090.5	3531.7	2266.4
62.5°	192.0	195.5	200.7	255.9	514.0	1548.4	3320.3	3414.8	3745.7	3475.2	2232.3
65°	145.0	146.3	144.1	157.1	212.3	587.3	2398.9	2527.5	3126.5	3254.2	2097.7
67.5°	119.1	119.1	113.5	116.1	133.3	220.1	1324.4	1503.9	2313.5	2674.7	1732.2
70°	94.9	97.1	94.5	91.1	95.4	121.7	471.2	584.3	1347.3	1579.4	1010.2
72.5°	72.1	72.1	76.4	73.8	70.8	76.4	164.4	184.7	540.7	658.5	364.6
75°	55.7	57.4	60.4	57.8	53.5	45.3	79.0	83.7	163.1	153.2	81.6
77.5°	28.5	28.9	38.4	42.3	39.7	27.6	34.5	38.0	53.1	47.5	30.2
80°	17.3	18.1	21.6	33.2	26.3	14.7	14.2	15.1	25.0	21.6	12.5
82.5°	7.3	7.8	12.1	12.1	10.8	5.6	5.6	5.6	12.1	11.2	5.2
85°	0.0	0.0	2.2	1.7	1.7	2.2	2.2	2.2	3.0	4.3	2.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.3	1.3
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°	1304.1	1304.1	1304.1	1304.1	1304.1	1304.1	1304.1	1304.1	1304.1	1304.1	1304.1
2.5°	1304.1	1276.5	1239.4	1205.7	1160.4	1134.9	1099.6	1070.6	1046.0	1038.3	1034.8
5°	1304.5	1257.1	1177.7	1098.3	1000.7	923.9	845.0	782.4	731.0	714.6	710.3
7.5°	1313.2	1243.3	1114.7	970.5	807.4	672.8	552.4	444.5	394.4	377.6	374.1
10°	1324.8	1231.6	1041.7	817.3	583.0	410.0	290.4	221.4	188.6	170.5	173.0
12.5°	1339.9	1222.1	961.0	651.6	385.8	225.3	159.7	133.8	126.9	123.4	121.7
15°	1360.2	1210.9	860.9	487.2	236.5	145.0	123.0	116.1	113.5	111.8	111.3
17.5°	1380.9	1197.9	759.1	342.6	157.1	120.4	110.5	107.0	105.3	104.0	103.6
20°	1402.9	1175.9	639.5	236.1	123.9	108.3	101.8	98.0	95.8	93.6	93.2
22.5°	1412.4	1140.6	525.2	165.3	110.0	99.7	91.5	86.7	84.1	82.4	82.4
25°	1403.4	1083.2	406.9	125.6	100.1	90.2	82.0	76.8	74.7	72.9	72.9
27.5°	1379.2	1009.4	296.9	104.0	89.3	80.3	72.5	67.8	66.0	65.2	65.2
30°	1352.4	916.2	209.3	89.3	77.2	69.9	63.4	60.4	60.0	59.1	59.1
32.5°	1329.6	829.0	144.1	78.5	68.2	60.8	56.5	55.2	55.7	54.8	55.2
35°	1317.1	743.5	107.0	69.9	60.8	53.9	51.8	51.8	51.8	51.4	51.4
37.5°	1322.2	659.4	87.2	63.9	54.4	49.2	47.0	47.9	48.8	48.8	48.8
40°	1348.1	584.7	77.2	58.3	48.8	44.9	43.2	44.4	45.7	46.6	46.6
42.5°	1380.9	524.3	69.9	53.5	44.9	40.6	39.7	41.0	42.3	43.2	43.2
45°	1401.6	463.5	62.6	47.5	41.0	35.8	35.8	37.5	37.1	37.5	37.5
47.5°	1411.1	415.1	55.2	41.0	35.0	31.1	31.5	32.4	31.5	32.4	32.4
50°	1387.8	366.4	48.8	34.1	28.9	27.2	28.0	27.6	27.6	29.3	29.3
52.5°	1345.1	330.1	43.2	28.9	24.6	24.2	25.0	23.3	23.7	23.7	23.3
55°	1313.6	309.4	38.4	25.0	21.1	21.6	21.1	18.1	16.4	14.7	14.2
57.5°	1298.1	301.2	35.0	22.4	19.0	19.0	17.3	12.5	9.5	7.3	6.5
60°	1294.6	291.3	31.5	19.4	16.8	16.0	12.5	7.3	4.7	3.5	3.0
62.5°	1261.8	267.1	28.5	15.5	14.7	12.9	7.8	4.3	2.6	1.7	1.3
65°	1154.4	219.7	25.5	12.1	11.2	9.5	4.7	2.6	1.3	0.4	0.0
67.5°	918.3	155.8	22.4	9.1	7.8	6.0	3.0	1.7	0.4	0.0	0.0
70°	529.5	84.1	18.6	6.5	5.2	3.9	2.2	0.9	0.0	0.0	0.0
72.5°	176.9	39.3	14.2	4.3	3.9	3.0	1.3	0.4	0.0	0.0	0.0
75°	38.8	23.3	9.5	3.0	2.6	2.2	0.9	0.0	0.0	0.0	0.0
77.5°	14.7	16.4	4.7	2.2	1.7	1.3	0.4	0.0	0.0	0.0	0.0
80°	5.6	10.8	2.2	1.3	1.3	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	3.0	4.3	1.3	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.7	2.2	0.9	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	0.4	0.4	0.4	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)