

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: P630709

Luminaire Tested: GWS-SA1E-730-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630709  
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-730-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, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

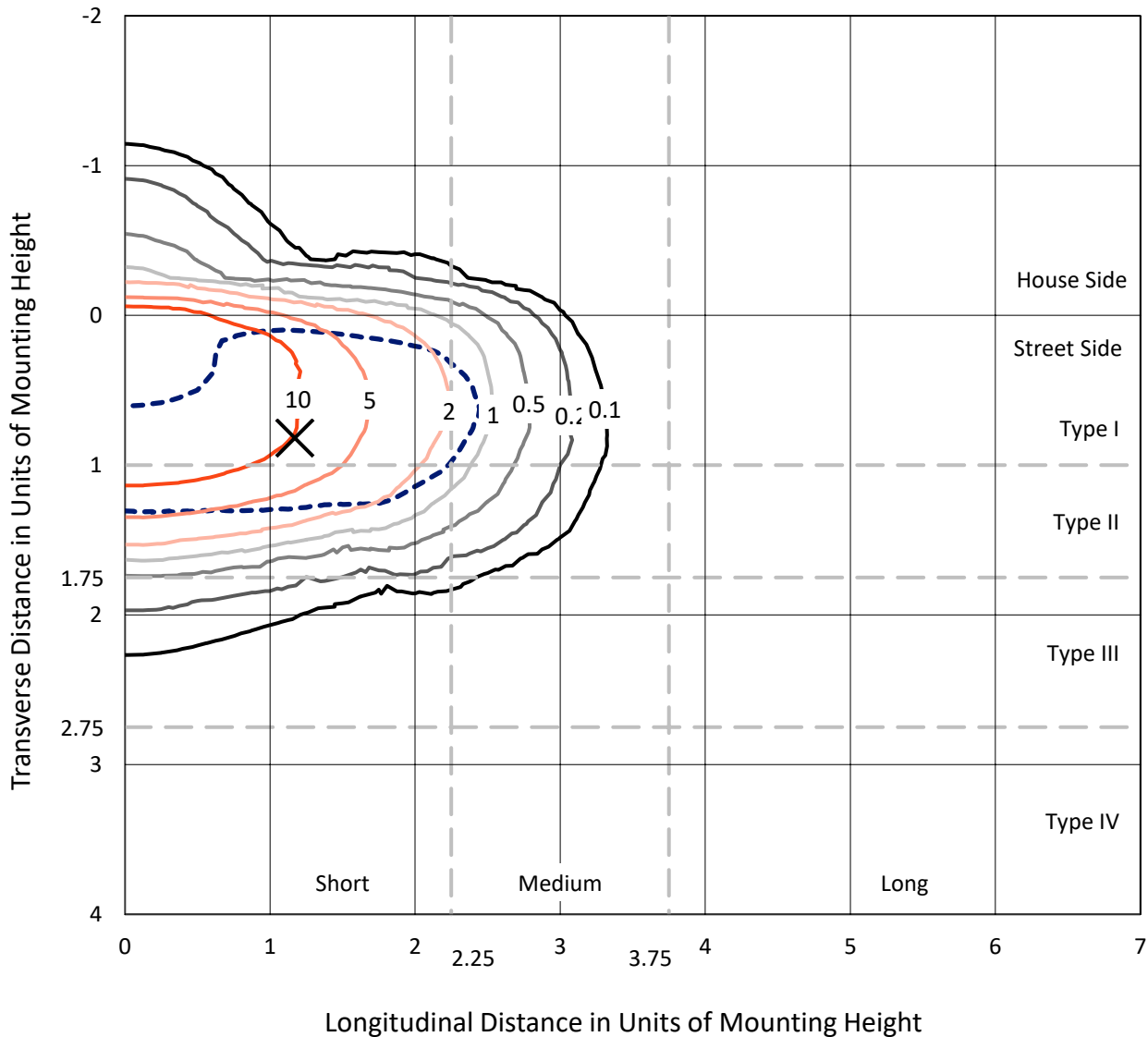
Lumens per Lamp: N/A  
Luminaire Lumens: 5786.5 lumens  
Efficiency: N/A  
Efficacy: 99.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 58.4  
Input Voltage (V): 120  
Input Current (Ain): 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

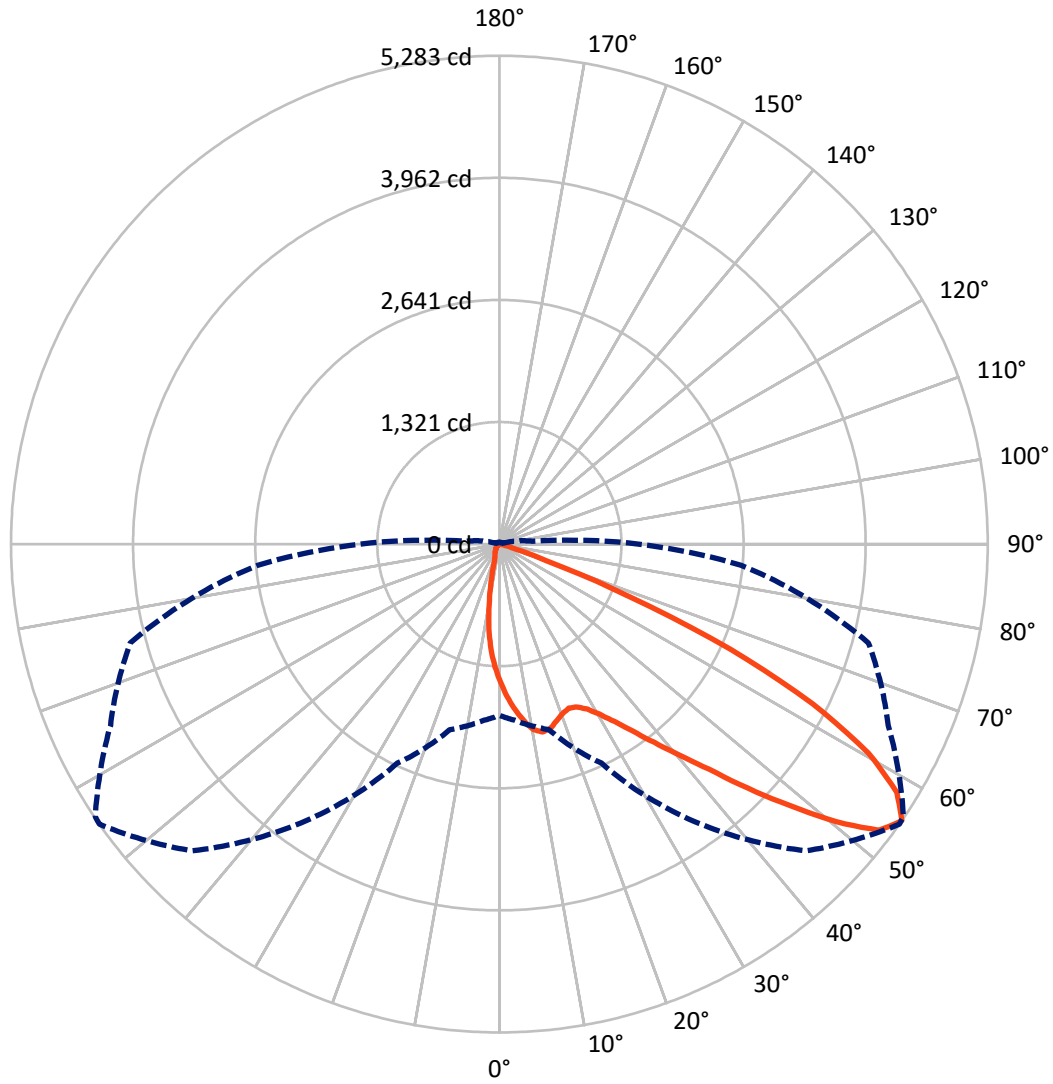
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.6 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	357.1	0.0	357.1
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	5429.5	0.0	5429.5
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	5786.5	0.0	5786.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.1	2.3
10°-20°	318.5	5.5
20°-30°	530.4	9.2
30°-40°	903.9	15.6
40°-50°	1475.5	25.5
50°-60°	1544.8	26.7
60°-70°	779.1	13.5
70°-80°	98.4	1.7
80°-90°	3.7	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°	5786.5	100.0
0°-180°	5786.5	100.0

**Coefficient of Utilization**



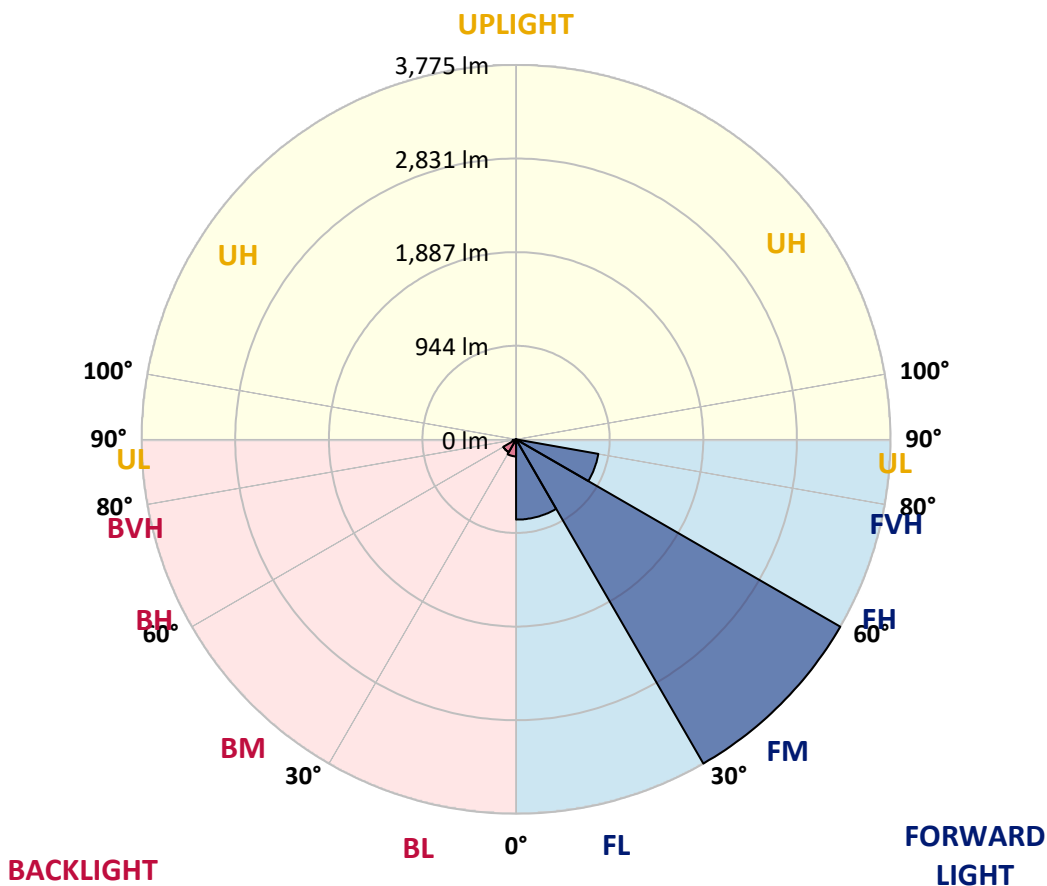
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	809.5	14.0			
FM (30°-60°)	3774.9	65.2			
FH (60°-80°)	841.7	14.5			G1/1800
FVH (80°-90°)	3.4	0.1			G0/10
BL (0°-30°)	171.6	3.0	B1/500		
BM (30°-60°)	149.3	2.6	B0/220		
BH (60°-80°)	35.8	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°	1494.9	1494.9	1494.9	1494.9	1494.9	1494.9	1494.9	1494.9	1494.9	1494.9	1494.9
2.5°	1742.7	1734.3	1747.2	1732.3	1707.1	1685.8	1658.1	1648.2	1603.7	1561.7	1521.1
5°	1954.4	1956.9	1953.0	1932.2	1896.6	1857.0	1801.1	1788.7	1711.1	1630.9	1544.4
7.5°	2006.9	2005.4	2013.8	2021.7	2015.8	1996.0	1935.1	1922.8	1826.3	1706.1	1580.0
10°	1845.1	1846.1	1863.4	1916.8	1983.1	2051.9	2042.5	2035.6	1941.1	1791.2	1619.5
12.5°	1616.6	1625.5	1643.8	1720.0	1832.3	1988.6	2085.5	2092.5	2046.4	1884.7	1666.0
15°	1517.6	1519.6	1534.5	1580.5	1664.1	1857.0	2067.2	2086.5	2134.5	1978.7	1716.5
17.5°	1515.2	1517.6	1524.1	1544.4	1598.8	1753.6	2008.4	2042.0	2200.8	2079.6	1776.9
20°	1608.2	1606.7	1602.2	1591.4	1615.1	1719.5	1953.9	1991.0	2236.9	2178.0	1837.7
22.5°	1776.9	1774.9	1755.1	1710.1	1690.8	1750.6	1927.2	1960.9	2258.7	2265.6	1887.7
25°	1971.3	1985.1	1948.0	1879.7	1832.3	1830.3	1951.0	1974.7	2277.5	2343.3	1921.8
27.5°	2184.5	2188.9	2157.3	2080.6	2011.8	1957.9	2019.7	2037.5	2298.2	2412.5	1941.1
30°	2418.4	2417.0	2380.8	2291.8	2208.2	2130.5	2135.5	2142.4	2346.7	2491.7	1962.4
32.5°	2710.8	2717.2	2652.9	2531.7	2431.3	2324.0	2286.9	2287.8	2434.3	2593.6	1994.5
35°	3108.0	3092.2	3007.1	2834.5	2663.3	2547.6	2484.2	2478.8	2569.3	2730.6	2050.4
37.5°	3486.4	3487.9	3398.9	3208.9	2992.8	2810.2	2720.7	2705.8	2759.3	2920.5	2143.4
40°	3749.1	3754.1	3717.0	3617.5	3388.5	3130.3	2998.7	2983.4	3005.6	3160.9	2265.1
42.5°	3888.1	3902.0	3912.3	3935.6	3762.0	3530.0	3327.6	3326.2	3302.9	3435.0	2406.1
45°	3893.5	3914.3	3977.6	4136.4	4156.2	3986.1	3765.9	3732.8	3643.2	3728.3	2532.2
47.5°	3678.4	3726.3	3860.9	4175.5	4383.3	4439.7	4221.5	4201.2	3949.9	3960.3	2626.7
50°	3176.8	3226.7	3474.6	3975.2	4440.7	4799.8	4721.6	4679.6	4206.2	4113.7	2672.2
52.5°	2662.3	2707.8	2876.0	3498.3	4202.7	4913.1	5143.1	5093.1	4436.2	4167.1	2653.4
55°	1852.5	1913.4	2077.6	2614.8	3654.6	4692.4	5282.6	5272.2	4641.5	4133.5	2624.2
57.5°	908.2	968.6	1132.3	1612.1	2707.3	4096.9	5069.4	5124.3	4764.2	4097.4	2600.5
60°	379.4	404.1	460.5	707.4	1514.7	3096.1	4588.1	4664.2	4689.0	4048.4	2598.0
62.5°	220.1	224.1	230.0	293.3	589.2	1774.9	3806.0	3914.3	4293.7	3983.6	2558.9
65°	166.2	167.7	165.2	180.1	243.4	673.2	2749.9	2897.3	3583.9	3730.3	2404.6
67.5°	136.5	136.5	130.1	133.1	152.9	252.3	1518.1	1723.9	2651.9	3066.0	1985.6
70°	108.8	111.3	108.3	104.4	109.3	139.5	540.2	669.8	1544.4	1810.5	1158.0
72.5°	82.6	82.6	87.6	84.6	81.1	87.6	188.5	211.7	619.8	754.9	418.0
75°	63.8	65.8	69.3	66.3	61.3	51.9	90.5	96.0	187.0	175.6	93.5
77.5°	32.6	33.1	44.0	48.5	45.5	31.7	39.6	43.5	60.8	54.4	34.6
80°	19.8	20.8	24.7	38.1	30.2	16.8	16.3	17.3	28.7	24.7	14.3
82.5°	8.4	8.9	13.9	13.9	12.4	6.4	6.4	6.4	13.9	12.9	5.9
85°	0.0	0.0	2.5	2.0	2.0	2.5	2.5	2.5	3.5	4.9	3.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.5	1.5
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°	1494.9	1494.9	1494.9	1494.9	1494.9	1494.9	1494.9	1494.9	1494.9	1494.9	1494.9
2.5°	1494.9	1463.2	1420.7	1382.1	1330.2	1301.0	1260.4	1227.3	1199.1	1190.2	1186.2
5°	1495.4	1441.0	1350.0	1258.9	1147.1	1059.1	968.6	896.8	838.0	819.2	814.2
7.5°	1505.3	1425.1	1277.7	1112.5	925.5	771.2	633.2	509.5	452.1	432.8	428.9
10°	1518.6	1411.8	1194.1	936.9	668.3	469.9	332.9	253.8	216.2	195.4	198.4
12.5°	1536.0	1400.9	1101.6	747.0	442.2	258.2	183.0	153.3	145.4	141.5	139.5
15°	1559.2	1388.0	986.9	558.5	271.1	166.2	141.0	133.1	130.1	128.1	127.6
17.5°	1582.9	1373.2	870.1	392.8	180.1	138.0	126.6	122.7	120.7	119.2	118.7
20°	1608.2	1348.0	733.1	270.6	142.0	124.2	116.7	112.3	109.8	107.3	106.8
22.5°	1619.1	1307.4	602.0	189.5	126.1	114.3	104.9	99.4	96.5	94.5	94.5
25°	1608.7	1241.6	466.5	143.9	114.8	103.4	94.0	88.1	85.6	83.6	83.6
27.5°	1581.0	1157.0	340.3	119.2	102.4	92.0	83.1	77.7	75.7	74.7	74.7
30°	1550.3	1050.2	239.9	102.4	88.5	80.1	72.7	69.3	68.8	67.8	67.8
32.5°	1524.1	950.3	165.2	90.0	78.2	69.7	64.8	63.3	63.8	62.8	63.3
35°	1509.7	852.3	122.7	80.1	69.7	61.8	59.4	59.4	59.4	58.9	58.9
37.5°	1515.7	755.9	99.9	73.2	62.3	56.4	53.9	54.9	55.9	55.9	55.9
40°	1545.3	670.3	88.5	66.8	55.9	51.4	49.5	51.0	52.4	53.4	53.4
42.5°	1582.9	601.0	80.1	61.3	51.4	46.5	45.5	47.0	48.5	49.5	49.5
45°	1606.7	531.3	71.7	54.4	47.0	41.1	41.1	43.0	42.5	43.0	43.0
47.5°	1617.6	475.9	63.3	47.0	40.1	35.6	36.1	37.1	36.1	37.1	37.1
50°	1590.9	420.0	55.9	39.1	33.1	31.2	32.2	31.7	31.7	33.6	33.6
52.5°	1541.9	378.4	49.5	33.1	28.2	27.7	28.7	26.7	27.2	27.2	26.7
55°	1505.8	354.7	44.0	28.7	24.2	24.7	24.2	20.8	18.8	16.8	16.3
57.5°	1488.0	345.3	40.1	25.7	21.8	21.8	19.8	14.3	10.9	8.4	7.4
60°	1484.0	333.9	36.1	22.3	19.3	18.3	14.3	8.4	5.4	4.0	3.5
62.5°	1446.4	306.2	32.6	17.8	16.8	14.8	8.9	4.9	3.0	2.0	1.5
65°	1323.2	251.8	29.2	13.9	12.9	10.9	5.4	3.0	1.5	0.5	0.0
67.5°	1052.7	178.6	25.7	10.4	8.9	6.9	3.5	2.0	0.5	0.0	0.0
70°	607.0	96.5	21.3	7.4	5.9	4.5	2.5	1.0	0.0	0.0	0.0
72.5°	202.8	45.0	16.3	4.9	4.5	3.5	1.5	0.5	0.0	0.0	0.0
75°	44.5	26.7	10.9	3.5	3.0	2.5	1.0	0.0	0.0	0.0	0.0
77.5°	16.8	18.8	5.4	2.5	2.0	1.5	0.5	0.0	0.0	0.0	0.0
80°	6.4	12.4	2.5	1.5	1.5	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	3.5	4.9	1.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.0	2.5	1.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	0.5	0.5	0.5	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)