

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: P631919

Luminaire Tested: GWS-SA2B-760-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631919  
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-SA2B-760-U-AFL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

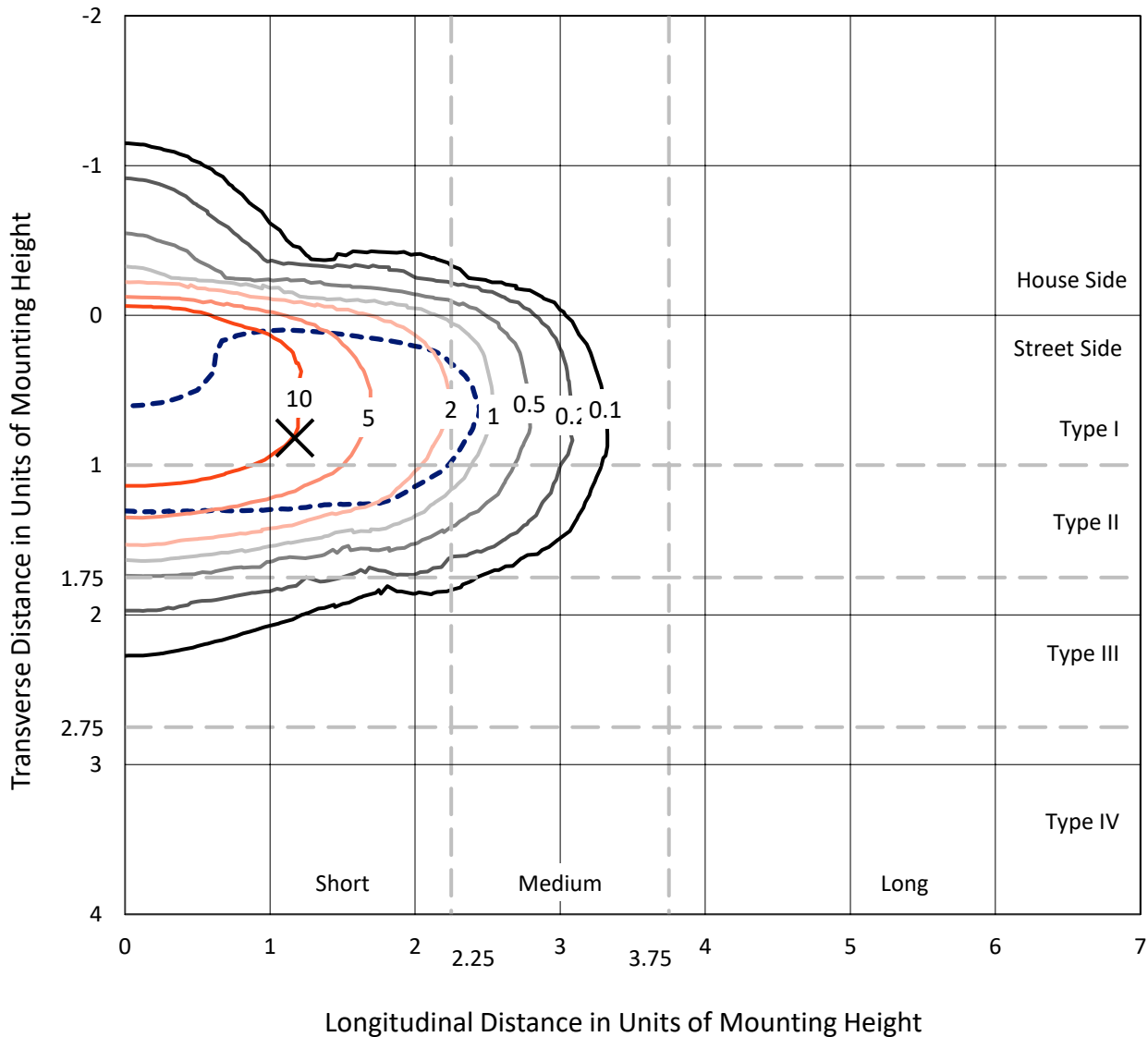
Lumens per Lamp: N/A  
Luminaire Lumens: 5838.8 lumens  
Efficiency: N/A  
Efficacy: 125.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

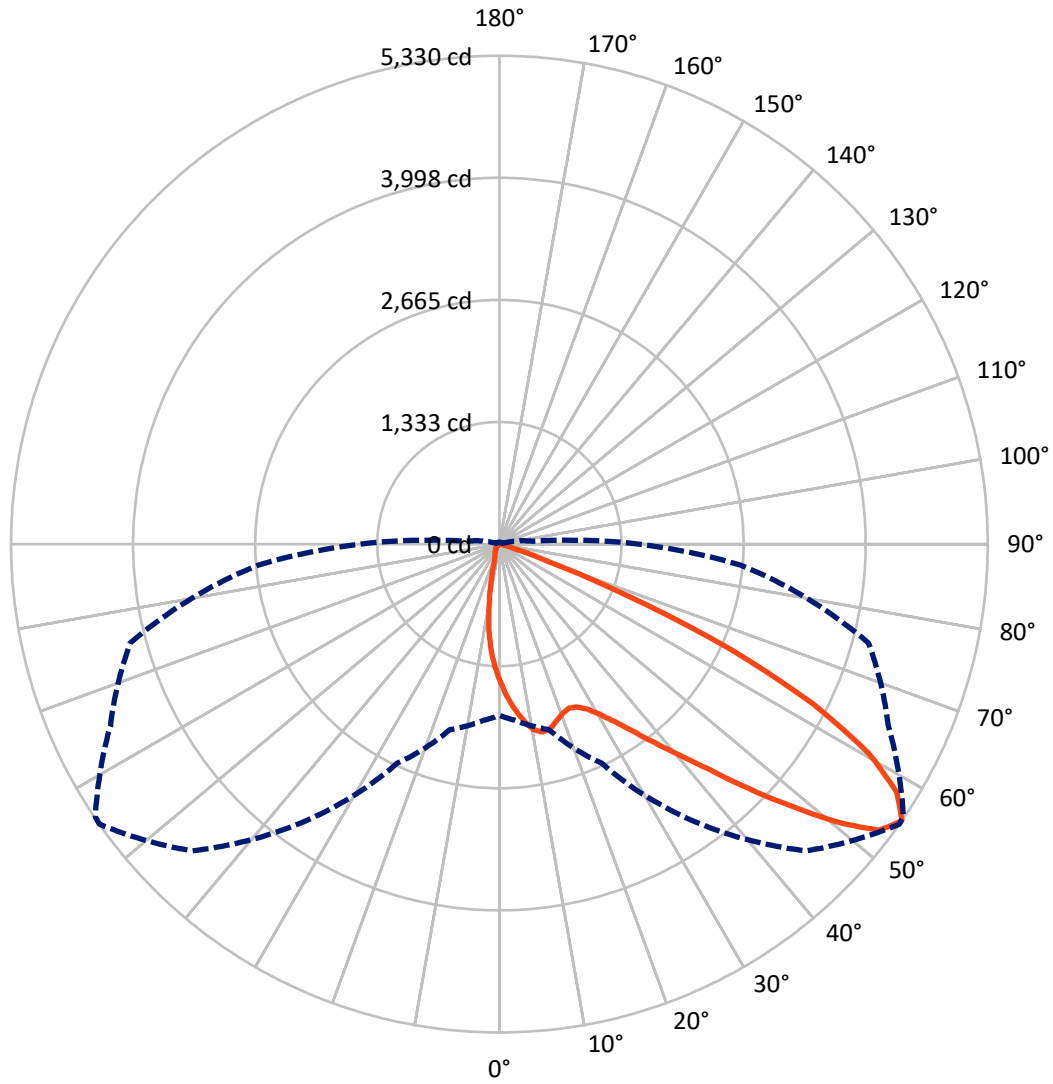
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.8 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	360.3	0.0	360.3
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	5478.5	0.0	5478.5
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	5838.8	0.0	5838.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.3	2.3
10°-20°	321.4	5.5
20°-30°	535.2	9.2
30°-40°	912.1	15.6
40°-50°	1488.8	25.5
50°-60°	1558.7	26.7
60°-70°	786.2	13.5
70°-80°	99.3	1.7
80°-90°	3.8	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°	5838.8	100.0
0°-180°	5838.8	100.0

**Coefficient of Utilization**

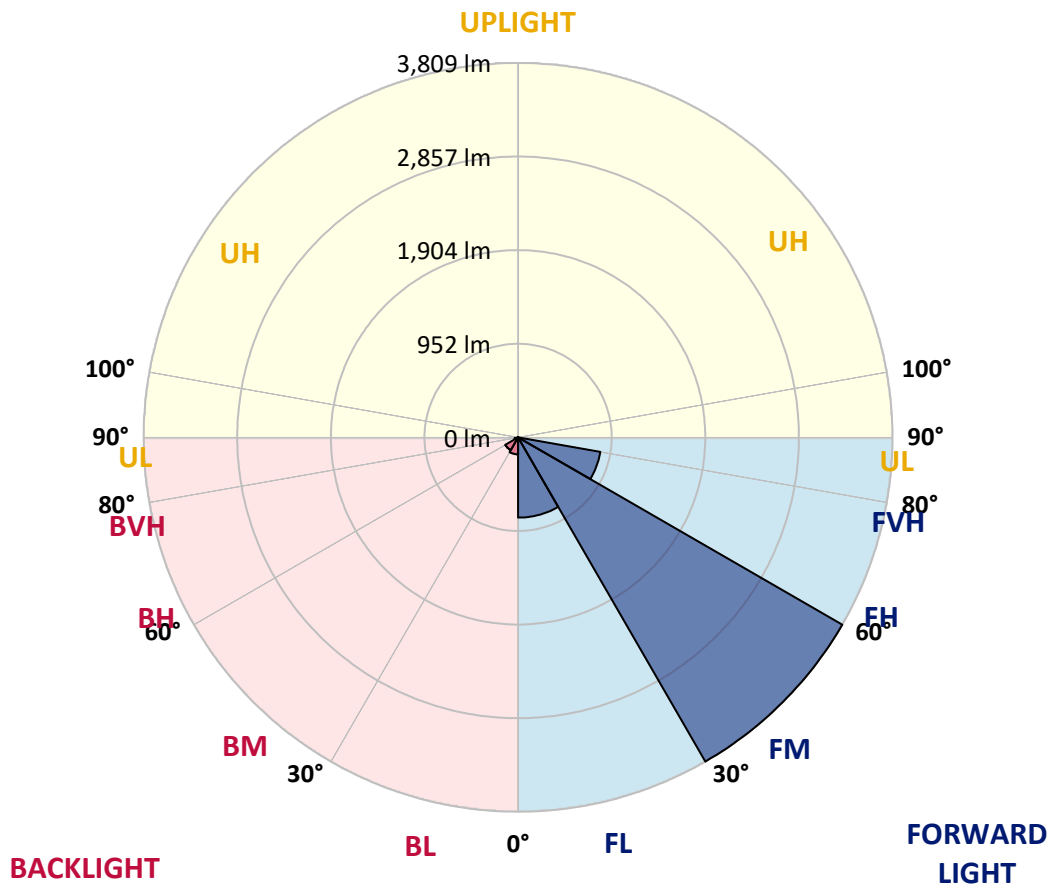


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	816.8	14.0			
FM (30°-60°)	3809.0	65.2			
FH (60°-80°)	849.4	14.5			G1/1800
FVH (80°-90°)	3.4	0.1			G0/10
BL (0°-30°)	173.2	3.0	B1/500		
BM (30°-60°)	150.6	2.6	B0/220		
BH (60°-80°)	36.1	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°	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4
2.5°	1758.5	1750.0	1763.0	1748.0	1722.5	1701.1	1673.1	1663.1	1618.2	1575.8	1534.9
5°	1972.1	1974.6	1970.6	1949.6	1913.7	1873.8	1817.4	1804.9	1726.5	1645.7	1558.3
7.5°	2025.0	2023.5	2032.0	2040.0	2034.0	2014.0	1952.6	1940.2	1842.8	1721.5	1594.3
10°	1861.8	1862.8	1880.3	1934.2	2001.1	2070.4	2061.0	2054.0	1958.6	1807.4	1634.2
12.5°	1631.2	1640.2	1658.6	1735.5	1848.8	2006.5	2104.4	2111.4	2064.9	1901.7	1681.1
15°	1531.4	1533.4	1548.3	1594.8	1679.1	1873.8	2085.9	2105.4	2153.8	1996.6	1732.0
17.5°	1528.9	1531.4	1537.9	1558.3	1613.2	1769.5	2026.5	2060.5	2220.7	2098.4	1792.9
20°	1622.7	1621.2	1616.7	1605.7	1629.7	1735.0	1971.6	2009.0	2257.1	2197.7	1854.3
22.5°	1792.9	1790.9	1771.0	1725.5	1706.1	1766.5	1944.7	1978.6	2279.1	2286.1	1904.7
25°	1989.1	2003.1	1965.6	1896.7	1848.8	1846.8	1968.6	1992.6	2298.0	2364.4	1939.2
27.5°	2204.2	2208.7	2176.8	2099.4	2030.0	1975.6	2038.0	2056.0	2319.0	2434.3	1958.6
30°	2440.3	2438.8	2402.4	2312.5	2228.2	2149.8	2154.8	2161.8	2367.9	2514.2	1980.1
32.5°	2735.3	2741.8	2676.9	2554.6	2453.3	2345.0	2307.5	2308.5	2456.3	2617.0	2012.5
35°	3136.1	3120.1	3034.3	2860.1	2687.4	2570.6	2506.7	2501.2	2592.5	2755.3	2068.9
37.5°	3517.9	3519.4	3429.6	3237.9	3019.8	2835.6	2745.3	2730.3	2784.2	2946.9	2162.8
40°	3783.0	3788.0	3750.5	3650.2	3419.1	3158.6	3025.8	3010.3	3032.8	3189.5	2285.6
42.5°	3923.2	3937.2	3947.7	3971.2	3796.0	3561.9	3357.7	3356.2	3332.8	3466.0	2427.8
45°	3928.7	3949.7	4013.6	4173.8	4193.8	4022.1	3800.0	3766.5	3676.2	3762.0	2555.1
47.5°	3711.6	3760.0	3895.8	4213.2	4422.9	4479.8	4259.7	4239.2	3985.6	3996.1	2650.4
50°	3205.5	3255.9	3506.0	4011.1	4480.8	4843.2	4764.3	4721.9	4244.2	4150.9	2696.4
52.5°	2686.4	2732.3	2902.0	3529.9	4240.7	4957.5	5189.6	5139.2	4476.3	4204.8	2677.4
55°	1869.3	1930.7	2096.4	2638.5	3687.7	4734.9	5330.3	5319.8	4683.4	4170.8	2647.9
57.5°	916.4	977.3	1142.5	1626.7	2731.8	4133.9	5115.2	5170.6	4807.2	4134.4	2624.0
60°	382.8	407.8	464.7	713.8	1528.4	3124.1	4629.5	4706.4	4731.4	4085.0	2621.5
62.5°	222.1	226.1	232.1	296.0	594.5	1790.9	3840.4	3949.7	4332.5	4019.6	2582.1
65°	167.7	169.2	166.7	181.7	245.6	679.3	2774.7	2923.5	3616.3	3764.0	2426.3
67.5°	137.8	137.8	131.3	134.3	154.2	254.6	1531.9	1739.5	2675.9	3093.7	2003.6
70°	109.8	112.3	109.3	105.3	110.3	140.8	545.1	675.8	1558.3	1826.9	1168.5
72.5°	83.4	83.4	88.3	85.4	81.9	88.3	190.2	213.6	625.4	761.7	421.8
75°	64.4	66.4	69.9	66.9	61.9	52.4	91.3	96.8	188.7	177.2	94.3
77.5°	32.9	33.4	44.4	48.9	45.9	31.9	39.9	43.9	61.4	54.9	34.9
80°	20.0	21.0	25.0	38.4	30.4	17.0	16.5	17.5	29.0	25.0	14.5
82.5°	8.5	9.0	14.0	14.0	12.5	6.5	6.5	6.5	14.0	13.0	6.0
85°	0.0	0.0	2.5	2.0	2.0	2.5	2.5	2.5	3.5	5.0	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°	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4
2.5°	1508.4	1476.5	1433.5	1394.6	1342.2	1312.7	1271.8	1238.4	1209.9	1200.9	1196.9
5°	1508.9	1454.0	1362.2	1270.3	1157.5	1068.7	977.3	904.9	845.5	826.6	821.6
7.5°	1518.9	1438.0	1289.3	1122.6	933.9	778.2	638.9	514.1	456.2	436.7	432.8
10°	1532.4	1424.5	1204.9	945.4	674.3	474.2	335.9	256.1	218.1	197.2	200.2
12.5°	1549.8	1413.6	1111.6	753.7	446.2	260.6	184.7	154.7	146.7	142.8	140.8
15°	1573.3	1400.6	995.8	563.5	273.5	167.7	142.3	134.3	131.3	129.3	128.8
17.5°	1597.3	1385.6	878.0	396.3	181.7	139.3	127.8	123.8	121.8	120.3	119.8
20°	1622.7	1360.2	739.7	273.0	143.3	125.3	117.8	113.3	110.8	108.3	107.8
22.5°	1633.7	1319.2	607.5	191.2	127.3	115.3	105.8	100.3	97.3	95.3	95.3
25°	1623.2	1252.8	470.7	145.3	115.8	104.3	94.8	88.8	86.4	84.4	84.4
27.5°	1595.3	1167.5	343.4	120.3	103.3	92.8	83.9	78.4	76.4	75.4	75.4
30°	1564.3	1059.7	242.1	103.3	89.3	80.9	73.4	69.9	69.4	68.4	68.4
32.5°	1537.9	958.8	166.7	90.8	78.9	70.4	65.4	63.9	64.4	63.4	63.9
35°	1523.4	860.0	123.8	80.9	70.4	62.4	59.9	59.9	59.9	59.4	59.4
37.5°	1529.4	762.7	100.8	73.9	62.9	56.9	54.4	55.4	56.4	56.4	56.4
40°	1559.3	676.3	89.3	67.4	56.4	51.9	49.9	51.4	52.9	53.9	53.9
42.5°	1597.3	606.5	80.9	61.9	51.9	46.9	45.9	47.4	48.9	49.9	49.9
45°	1621.2	536.1	72.4	54.9	47.4	41.4	41.4	43.4	42.9	43.4	43.4
47.5°	1632.2	480.2	63.9	47.4	40.4	35.9	36.4	37.4	36.4	37.4	37.4
50°	1605.2	423.8	56.4	39.4	33.4	31.4	32.4	31.9	31.9	33.9	33.9
52.5°	1555.8	381.8	49.9	33.4	28.5	28.0	29.0	27.0	27.5	27.5	27.0
55°	1519.4	357.9	44.4	29.0	24.5	25.0	24.5	21.0	19.0	17.0	16.5
57.5°	1501.4	348.4	40.4	26.0	22.0	22.0	20.0	14.5	11.0	8.5	7.5
60°	1497.4	336.9	36.4	22.5	19.5	18.5	14.5	8.5	5.5	4.0	3.5
62.5°	1459.5	309.0	32.9	18.0	17.0	15.0	9.0	5.0	3.0	2.0	1.5
65°	1335.2	254.1	29.4	14.0	13.0	11.0	5.5	3.0	1.5	0.5	0.0
67.5°	1062.2	180.2	26.0	10.5	9.0	7.0	3.5	2.0	0.5	0.0	0.0
70°	612.4	97.3	21.5	7.5	6.0	4.5	2.5	1.0	0.0	0.0	0.0
72.5°	204.6	45.4	16.5	5.0	4.5	3.5	1.5	0.5	0.0	0.0	0.0
75°	44.9	27.0	11.0	3.5	3.0	2.5	1.0	0.0	0.0	0.0	0.0
77.5°	17.0	19.0	5.5	2.5	2.0	1.5	0.5	0.0	0.0	0.0	0.0
80°	6.5	12.5	2.5	1.5	1.5	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	3.5	5.0	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)