

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: P631202

Luminaire Tested: GWS-SA1F-730-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631202  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1F-730-U-AFL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (16) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

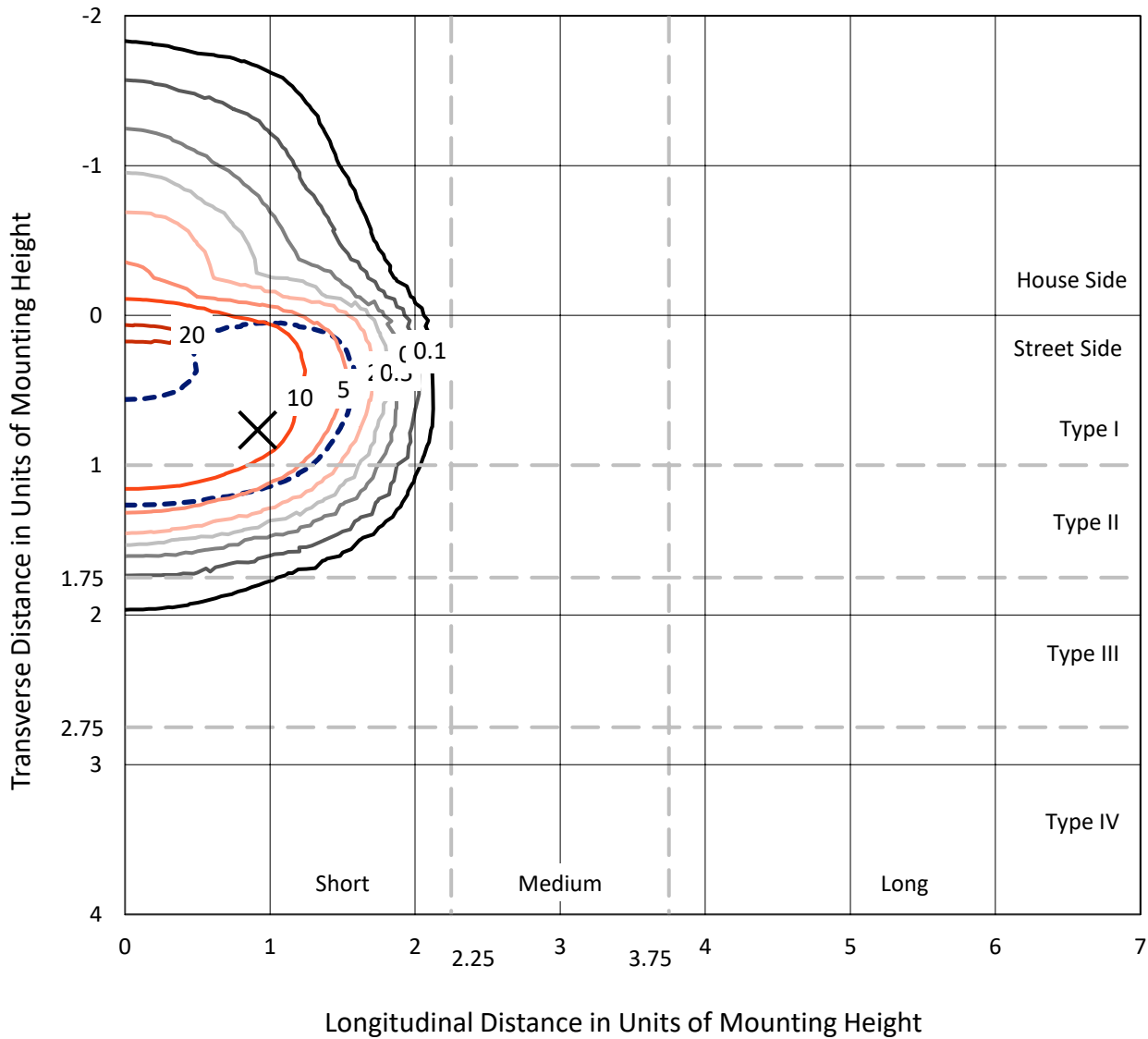
Lumens per Lamp: N/A  
Luminaire Lumens: 5777.9 lumens  
Efficiency: N/A  
Efficacy: 86.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

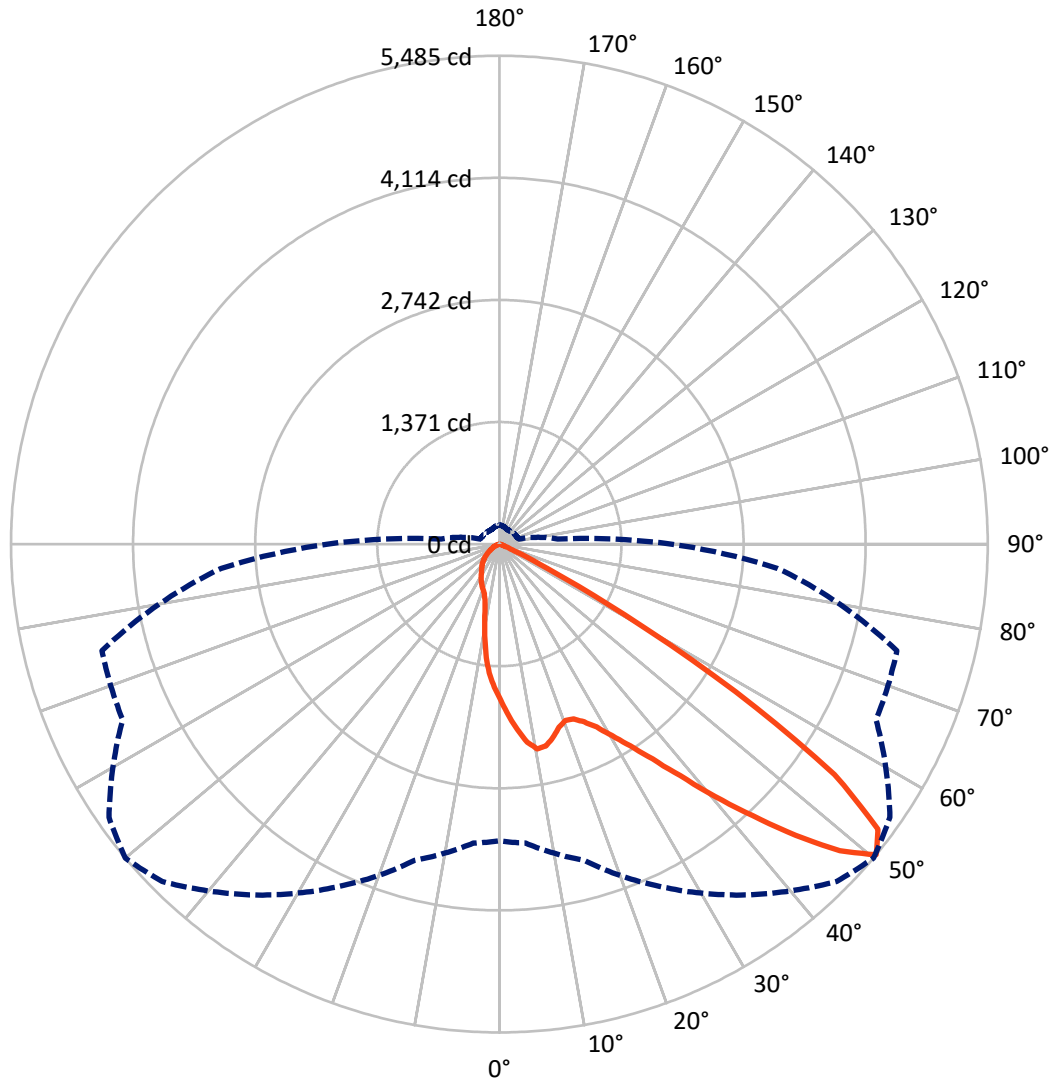
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	742.3	0.0	742.3
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	5035.6	0.0	5035.6
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	5777.9	0.0	5777.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.4	2.8
10°-20°	419.0	7.3
20°-30°	691.5	12.0
30°-40°	1141.0	19.7
40°-50°	1805.4	31.2
50°-60°	1366.9	23.7
60°-70°	171.1	3.0
70°-80°	19.3	0.3
80°-90°	1.5	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°	5777.9	100.0
0°-180°	5777.9	100.0

**Coefficient of Utilization**



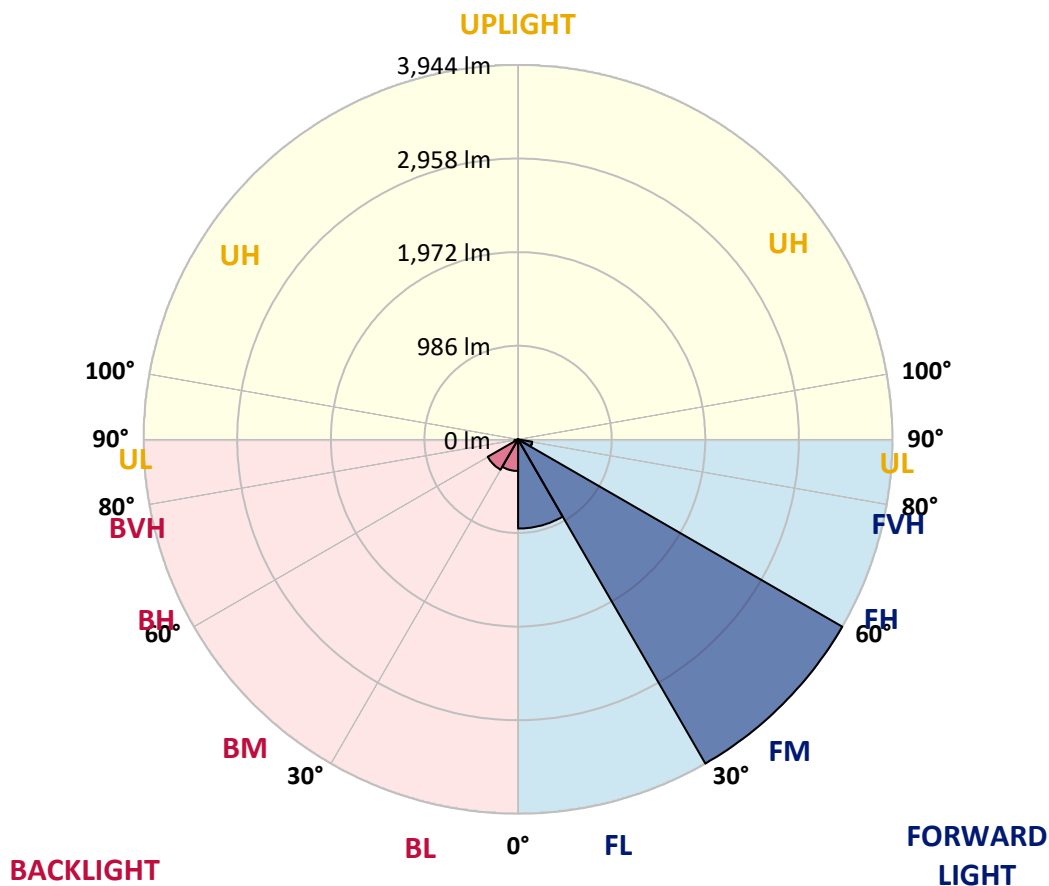
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	939.6	16.3			
FM (30°-60°)	3944.1	68.3			
FH (60°-80°)	151.2	2.6			G0/660
FVH (80°-90°)	0.7	0.0			G0/10
BL (0°-30°)	333.2	5.8	B1/500		
BM (30°-60°)	369.2	6.4	B1/1000		
BH (60°-80°)	39.2	0.7	B0/110		G0/110
BVH (80°-90°)	0.8	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°	50°	55°	65°	75°	85°
0°	1750.5	1750.5	1750.5	1750.5	1750.5	1750.5	1750.5	1750.5	1750.5	1750.5	1750.5
2.5°	1994.7	2010.6	2006.2	1985.3	1962.8	1946.8	1922.1	1914.4	1858.3	1819.2	1778.0
5°	2235.6	2240.5	2235.0	2209.7	2170.1	2132.2	2091.5	2067.8	1973.8	1889.1	1802.7
7.5°	2293.3	2287.3	2297.7	2310.4	2304.9	2288.4	2245.5	2219.6	2107.4	1969.4	1838.5
10°	2112.9	2099.2	2138.2	2203.7	2272.4	2350.0	2339.0	2341.2	2237.8	2070.6	1885.2
12.5°	1873.7	1868.2	1897.3	1973.2	2108.0	2284.0	2326.3	2397.3	2357.1	2180.0	1938.6
15°	1768.7	1771.4	1789.0	1836.8	1933.6	2152.5	2254.3	2382.4	2463.8	2286.2	1997.4
17.5°	1784.6	1794.5	1794.0	1809.9	1868.7	2044.2	2163.0	2335.7	2546.3	2408.2	2065.1
20°	1892.9	1902.8	1888.0	1875.9	1895.7	2016.7	2115.1	2288.4	2601.8	2531.4	2136.6
22.5°	2055.2	2066.7	2031.5	1996.9	1984.2	2061.8	2133.3	2269.1	2644.2	2644.2	2200.4
25°	2251.5	2267.5	2213.0	2151.4	2116.2	2156.9	2210.8	2312.6	2687.6	2745.4	2243.8
27.5°	2470.9	2471.5	2424.7	2355.5	2289.5	2294.4	2326.9	2410.4	2735.5	2854.3	2277.9
30°	2717.9	2719.5	2657.4	2574.3	2491.3	2468.7	2496.2	2559.5	2835.0	2991.2	2325.2
32.5°	3036.8	3044.5	2955.5	2833.4	2725.6	2683.2	2699.2	2765.7	2993.4	3162.8	2396.2
35°	3468.0	3476.3	3344.8	3183.7	3012.1	2948.3	2964.3	3031.3	3222.7	3406.4	2509.4
37.5°	3893.7	3904.7	3771.6	3621.4	3386.1	3280.5	3297.0	3360.8	3567.0	3743.0	2690.9
40°	4187.9	4202.8	4161.5	4060.3	3842.0	3703.4	3723.2	3746.3	3945.9	4145.6	2926.3
42.5°	4343.0	4363.9	4381.5	4433.2	4318.2	4202.2	4168.7	4170.3	4331.4	4555.8	3171.0
45°	4352.3	4372.7	4462.9	4662.5	4750.0	4725.8	4664.7	4623.5	4625.7	4829.1	3323.9
47.5°	4049.9	4087.8	4256.6	4647.7	4976.5	5177.3	5146.5	5048.6	4749.4	4847.3	3307.4
50°	3333.3	3370.7	3677.5	4240.1	4811.5	5357.7	5484.7	5353.3	4668.6	4621.3	3137.5
52.5°	2420.9	2424.7	2623.8	3281.0	4142.8	5024.9	5324.1	5311.5	4545.4	4347.4	2905.4
55°	1150.0	1136.2	1360.0	1851.7	2865.3	4064.2	4568.5	4711.5	4370.5	4149.4	2725.6
57.5°	334.9	341.5	441.1	722.6	1433.2	2597.4	3128.7	3394.9	3587.4	3411.4	2114.0
60°	150.1	150.7	167.7	220.0	477.4	1208.2	1617.4	1946.8	2144.8	1987.5	1048.8
62.5°	108.9	109.4	116.0	124.3	162.2	409.2	606.6	808.4	823.3	539.0	265.6
65°	90.7	90.7	91.8	91.8	97.3	146.3	184.2	237.6	200.2	148.5	103.9
67.5°	73.1	73.7	74.8	74.8	73.1	73.1	79.2	86.9	92.9	114.9	95.7
70°	57.2	56.6	56.6	57.2	55.5	47.3	51.1	58.3	63.8	89.6	83.0
72.5°	44.5	45.1	44.5	42.3	38.5	28.0	30.2	37.9	40.7	56.1	56.1
75°	33.5	34.1	31.9	24.2	15.9	8.8	11.5	18.7	23.6	27.5	20.3
77.5°	4.4	4.4	3.3	3.3	2.7	3.3	3.3	4.4	6.6	6.6	4.9
80°	0.5	0.5	0.5	1.1	1.6	2.2	2.2	2.2	2.2	2.7	2.7
82.5°	0.5	0.5	0.5	0.5	1.6	1.6	2.2	2.2	2.2	2.2	2.2
85°	0.0	0.0	0.0	0.5	1.1	1.6	1.6	2.2	2.2	2.2	2.2
87.5°	0.0	0.0	0.0	0.5	1.1	1.6	1.6	1.6	2.2	2.2	2.2
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°	1750.5	1750.5	1750.5	1750.5	1750.5	1750.5	1750.5	1750.5	1750.5	1750.5	1750.5
2.5°	1753.3	1721.4	1682.9	1656.5	1619.1	1594.3	1559.1	1535.5	1515.1	1499.2	1508.0
5°	1753.8	1703.2	1624.6	1557.5	1484.3	1417.2	1345.2	1288.5	1237.4	1214.3	1226.9
7.5°	1764.8	1692.2	1571.8	1452.4	1312.2	1173.6	1043.8	938.2	886.0	861.2	868.9
10°	1786.3	1687.3	1512.9	1314.9	1087.3	898.1	772.1	700.6	671.5	656.1	658.8
12.5°	1806.0	1684.0	1436.5	1134.0	857.9	696.8	631.3	621.4	627.5	628.0	627.5
15°	1833.0	1677.9	1341.9	948.1	686.3	602.2	603.8	618.1	632.4	636.8	635.7
17.5°	1861.6	1668.6	1219.8	769.9	582.4	574.7	594.0	613.2	627.5	629.7	630.2
20°	1891.3	1649.3	1080.7	628.6	534.0	553.8	575.3	589.6	600.0	603.3	604.4
22.5°	1905.0	1608.6	920.1	527.4	501.6	528.0	543.9	562.6	565.9	553.8	556.0
25°	1897.9	1539.9	763.3	459.2	469.1	495.5	519.2	509.8	496.1	487.3	490.0
27.5°	1875.3	1448.6	609.9	409.2	434.5	468.0	470.8	460.3	458.1	451.0	453.2
30°	1851.1	1343.5	490.6	369.0	399.3	434.5	426.2	430.1	430.6	422.4	425.1
32.5°	1836.3	1233.5	390.5	342.1	376.7	383.3	399.8	407.5	408.1	388.8	392.1
35°	1841.2	1125.2	330.5	320.1	355.8	354.2	377.3	381.7	349.8	323.4	326.1
37.5°	1881.4	1025.1	296.4	303.0	319.5	332.2	349.8	320.6	313.5	301.4	303.0
40°	1956.2	939.9	276.1	292.6	294.8	315.1	288.2	292.0	292.6	284.9	286.5
42.5°	2043.6	868.9	264.0	286.5	281.0	284.3	257.4	265.1	273.3	270.0	270.6
45°	2087.6	799.6	253.5	265.6	267.3	235.9	229.9	238.1	248.6	250.2	250.8
47.5°	2048.6	733.6	242.5	235.4	246.4	215.0	207.9	210.6	222.7	229.3	230.4
50°	1929.2	657.7	226.0	208.4	202.4	193.0	186.4	187.0	200.7	212.3	214.5
52.5°	1761.5	578.6	199.1	176.5	162.8	169.9	171.6	168.3	180.9	192.5	194.7
55°	1598.7	479.6	157.8	143.5	130.9	146.3	150.7	146.3	150.1	157.8	158.4
57.5°	1125.8	271.1	121.0	118.8	108.3	125.4	132.5	125.9	119.3	124.3	125.4
60°	521.9	141.9	92.9	92.9	90.2	107.8	119.9	110.5	97.9	100.1	101.7
62.5°	163.3	89.6	68.2	64.3	73.7	91.8	101.7	92.4	77.5	77.5	79.7
65°	92.4	77.0	53.9	49.5	59.9	73.7	79.7	69.8	56.6	55.5	55.5
67.5°	85.8	73.1	47.8	40.1	42.3	47.3	49.5	42.9	39.0	38.5	39.0
70°	70.9	61.0	38.5	27.5	25.8	25.3	26.4	24.7	23.6	24.2	25.8
72.5°	44.0	36.8	24.2	16.5	14.3	13.7	13.7	13.7	13.2	13.2	13.2
75°	15.9	13.7	11.0	8.2	7.1	6.6	6.6	7.1	6.6	6.0	5.5
77.5°	4.9	4.4	4.4	4.4	3.8	3.3	2.7	2.7	2.2	1.6	1.6
80°	2.7	2.7	2.7	2.7	2.2	2.2	1.6	1.1	0.5	0.5	0.0
82.5°	2.7	2.7	2.7	2.2	2.2	2.2	1.6	1.1	0.5	0.0	0.0
85°	2.2	2.2	2.2	2.2	2.2	2.2	1.6	1.1	0.5	0.0	0.0
87.5°	2.2	2.2	2.2	2.2	2.2	2.2	1.6	1.1	0.5	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)