

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: P636838

Luminaire Tested: GWS-SA4B-750-U-T2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636838  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4B-750-U-T2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

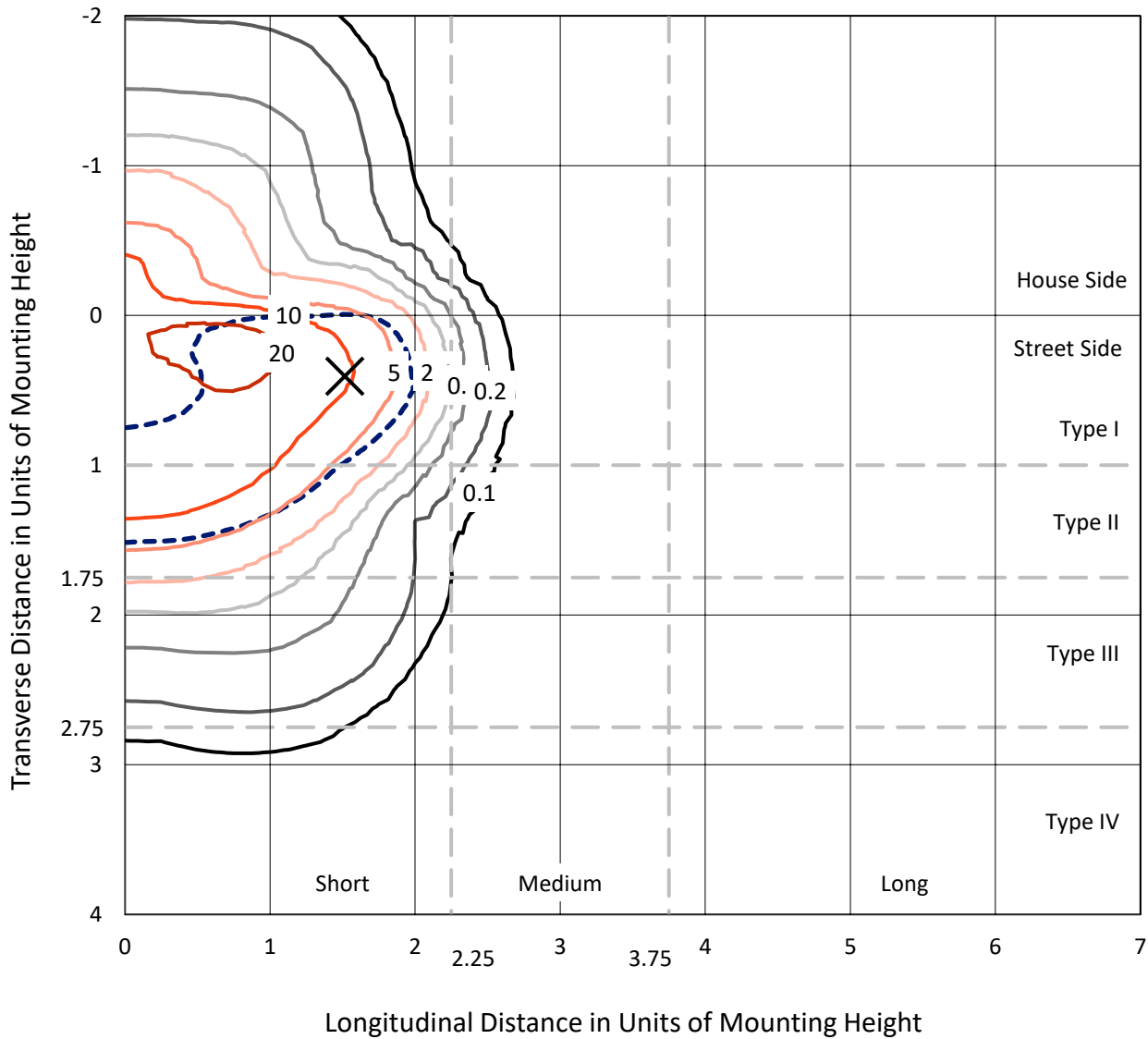
Lumens per Lamp: N/A  
Luminaire Lumens: 8794.8 lumens  
Efficiency: N/A  
Efficacy: 93.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

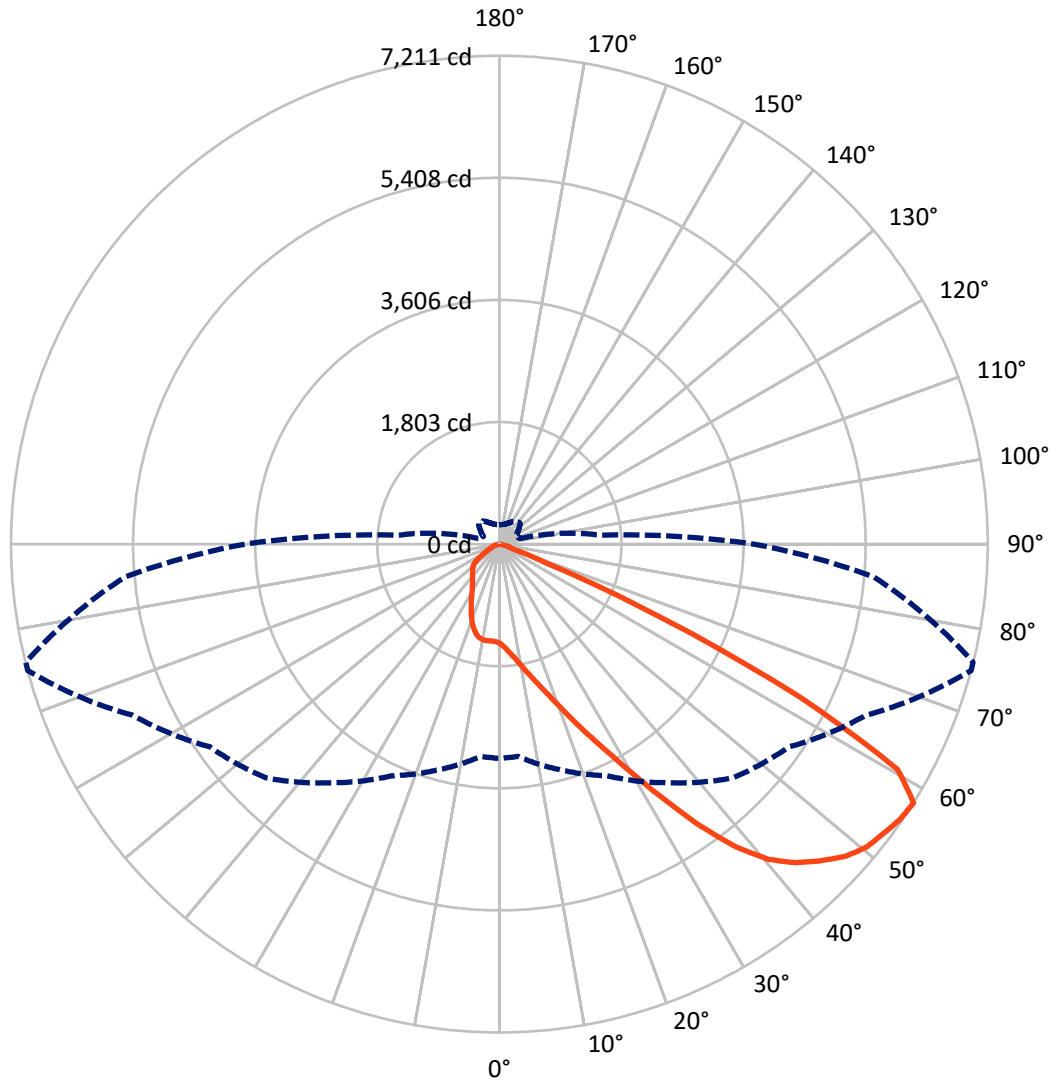
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 27.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1436.6	0.0	1436.6
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	7358.2	0.0	7358.2
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	8794.8	0.0	8794.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.3	1.7
10°-20°	484.9	5.5
20°-30°	887.9	10.1
30°-40°	1473.1	16.8
40°-50°	2249.8	25.6
50°-60°	2528.1	28.7
60°-70°	932.5	10.6
70°-80°	89.1	1.0
80°-90°	0.1	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°	8794.8	100.0
0°-180°	8794.8	100.0

**Coefficient of Utilization**



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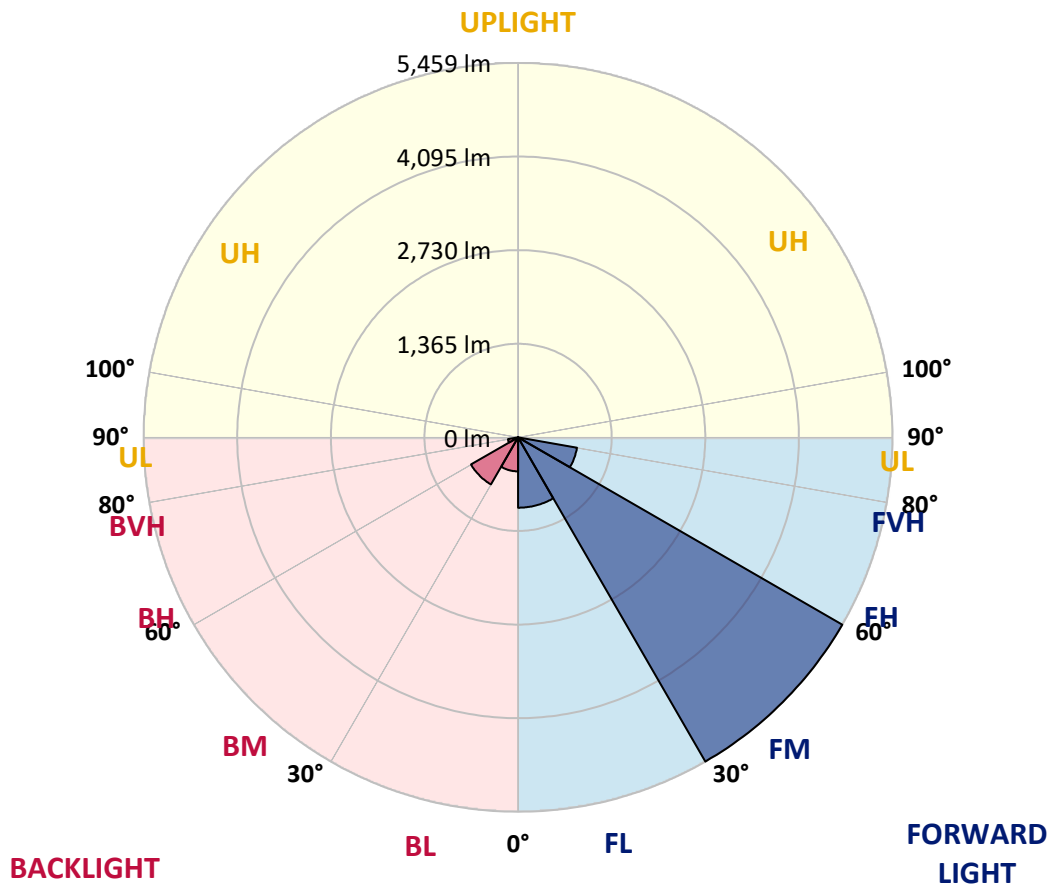
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1026.3	11.7			
FM (30°-60°)	5459.4	62.1			
FH (60°-80°)	872.4	9.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	495.7	5.6	B1/500		
BM (30°-60°)	791.7	9.0	B1/1000		
BH (60°-80°)	149.2	1.7	B1/500		G1/500
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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1466.9	1466.9	1466.9	1466.9	1466.9	1466.9	1466.9	1466.9	1466.9	1466.9	1466.9
2.5°	1638.8	1655.8	1650.5	1639.9	1633.5	1611.2	1597.4	1557.1	1528.4	1525.2	1498.7
5°	1845.8	1842.6	1838.3	1825.6	1815.0	1780.0	1738.6	1670.6	1610.1	1602.7	1546.5
7.5°	1959.3	1961.5	1963.6	1961.5	1954.0	1927.5	1881.9	1802.3	1709.9	1703.5	1614.4
10°	2006.0	2010.3	2020.9	2041.1	2059.1	2057.0	2030.5	1948.7	1835.2	1824.5	1704.6
12.5°	2028.3	2033.6	2050.6	2088.8	2137.7	2175.9	2180.1	2106.9	1981.6	1964.6	1811.8
15°	2059.1	2064.4	2085.6	2135.5	2206.6	2282.0	2330.8	2284.1	2144.0	2126.0	1929.6
17.5°	2072.9	2080.3	2111.1	2176.9	2269.3	2385.0	2495.3	2491.1	2336.1	2322.3	2066.5
20°	2099.4	2104.7	2132.3	2203.5	2314.9	2481.5	2667.3	2734.2	2570.7	2550.5	2232.1
22.5°	2183.3	2185.4	2198.2	2242.7	2346.7	2551.6	2842.4	3017.6	2847.7	2821.2	2417.9
25°	2320.2	2319.2	2324.5	2331.9	2408.3	2622.7	3011.2	3337.0	3165.1	3136.4	2628.0
27.5°	2494.3	2494.3	2507.0	2485.8	2516.6	2710.8	3177.8	3704.3	3534.5	3494.1	2858.3
30°	2699.1	2698.1	2727.8	2693.8	2703.4	2849.9	3357.2	4104.4	3980.2	3930.4	3123.7
32.5°	2977.2	2970.8	3004.8	2958.1	2926.3	3060.0	3575.8	4522.6	4514.1	4437.7	3457.0
35°	3328.5	3317.9	3328.5	3282.9	3225.6	3354.0	3862.4	4939.7	5106.4	5025.7	3853.9
37.5°	3677.7	3711.7	3723.4	3644.8	3598.1	3726.6	4207.4	5313.4	5672.1	5588.3	4266.8
40°	4089.6	4078.9	4119.3	4031.2	4001.5	4143.7	4544.9	5591.4	6120.0	6040.4	4634.1
42.5°	4393.1	4412.2	4462.1	4413.3	4389.9	4523.7	4828.3	5753.8	6431.0	6352.5	4896.2
45°	4757.2	4771.0	4790.1	4749.8	4725.3	4857.0	5033.1	5824.9	6667.7	6582.8	5072.4
47.5°	5151.0	5161.6	5161.6	5078.8	5000.2	5054.4	5170.1	5865.3	6885.3	6803.6	5203.0
50°	5433.3	5438.6	5485.3	5426.9	5256.0	5172.2	5232.7	5904.5	7029.6	6953.2	5245.4
52.5°	5182.8	5176.4	5330.3	5451.3	5497.0	5330.3	5340.9	5961.9	7099.7	7033.9	5279.4
55°	4364.5	4353.8	4570.4	4864.4	5266.7	5480.0	5471.5	5995.8	7177.2	7136.8	5402.5
57.5°	3164.0	3146.0	3447.4	3774.3	4301.8	4880.3	5219.9	5976.7	7211.1	7207.9	5545.8
60°	1902.0	1887.2	2171.6	2515.5	2923.1	3504.7	4068.3	5353.7	6756.9	6763.2	5173.2
62.5°	1170.7	1184.5	1441.4	1616.5	1768.3	1943.4	2269.3	3601.3	5005.5	5046.9	3635.3
65°	787.6	798.2	1035.9	1256.7	1256.7	1027.4	882.0	1721.6	2670.5	2600.4	1719.5
67.5°	528.6	540.3	728.1	986.0	1023.2	716.4	357.7	513.7	744.0	721.7	425.6
70°	311.0	323.7	485.1	676.1	745.1	498.9	238.8	217.6	211.2	204.8	165.6
72.5°	139.0	144.3	247.3	343.9	314.2	210.2	168.8	174.1	164.5	161.3	134.8
75°	42.5	44.6	63.7	74.3	75.4	75.4	101.9	136.9	129.5	130.6	104.0
77.5°	10.6	10.6	17.0	15.9	8.5	7.4	19.1	30.8	31.8	28.7	21.2
80°	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
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°	1466.9	1466.9	1466.9	1466.9	1466.9	1466.9	1466.9	1466.9	1466.9	1466.9	1466.9
2.5°	1487.0	1459.4	1441.4	1415.9	1397.9	1378.8	1361.8	1348.0	1340.5	1338.4	1339.5
5°	1521.0	1477.5	1435.0	1386.2	1352.2	1320.4	1294.9	1274.7	1265.2	1262.0	1262.0
7.5°	1573.0	1512.5	1437.1	1360.7	1303.4	1253.5	1223.8	1201.5	1193.0	1190.9	1184.5
10°	1640.9	1558.1	1433.9	1315.1	1234.4	1182.4	1161.2	1154.8	1158.0	1159.0	1158.0
12.5°	1722.6	1605.9	1413.8	1248.2	1161.2	1129.3	1131.4	1148.4	1167.5	1177.1	1179.2
15°	1809.7	1649.4	1368.1	1168.6	1098.5	1097.5	1128.3	1167.5	1204.7	1220.6	1224.9
17.5°	1907.3	1684.4	1298.1	1083.7	1044.4	1075.2	1130.4	1190.9	1240.8	1267.3	1272.6
20°	2014.5	1713.1	1208.9	1004.1	996.7	1051.8	1128.3	1202.6	1264.1	1293.8	1299.1
22.5°	2126.0	1733.3	1106.0	930.8	953.1	1025.3	1108.1	1180.3	1238.6	1272.6	1276.9
25°	2253.3	1735.4	1000.9	869.3	912.8	989.2	1059.3	1118.7	1167.5	1197.3	1200.4
27.5°	2364.8	1709.9	907.5	819.4	875.7	944.6	991.3	1024.2	1058.2	1075.2	1076.3
30°	2493.2	1665.3	819.4	779.1	837.4	889.5	912.8	920.2	923.4	926.6	922.4
32.5°	2646.1	1611.2	753.6	739.8	793.9	829.0	835.3	820.5	802.4	776.9	770.6
35°	2833.9	1562.4	699.5	701.6	746.2	767.4	762.1	730.2	695.2	664.4	659.1
37.5°	3037.7	1521.0	658.1	664.4	694.2	709.0	693.1	658.1	642.1	615.6	616.7
40°	3218.2	1487.0	620.9	627.3	641.1	654.9	629.4	606.1	635.8	633.7	635.8
42.5°	3346.6	1458.4	589.1	585.9	595.4	605.0	585.9	574.2	624.1	610.3	617.7
45°	3421.9	1431.8	562.5	543.4	558.3	575.3	562.5	547.7	564.7	501.0	495.7
47.5°	3472.9	1417.0	539.2	502.0	528.6	558.3	531.8	495.7	471.3	416.1	411.8
50°	3478.2	1409.5	511.6	459.6	493.5	525.4	494.6	444.7	409.7	385.3	382.1
52.5°	3505.8	1424.4	473.4	405.5	442.6	493.5	472.3	422.4	374.7	353.4	349.2
55°	3628.9	1487.0	409.7	331.2	385.3	469.1	454.3	376.8	331.2	318.4	315.2
57.5°	3756.3	1499.8	322.7	262.2	335.4	434.1	415.0	347.1	302.5	287.6	284.5
60°	3434.7	1235.5	242.0	216.5	296.1	401.2	384.2	329.0	277.0	259.0	255.8
62.5°	2256.5	667.6	192.1	183.6	249.4	339.6	350.3	297.2	247.3	228.2	227.1
65°	1040.2	309.9	147.5	145.4	195.3	270.7	301.4	260.0	209.1	192.1	192.1
67.5°	283.4	153.9	115.7	107.2	132.7	181.5	219.7	194.2	148.6	128.4	127.4
70°	141.2	124.2	104.0	92.3	95.5	112.5	129.5	108.3	75.4	61.6	60.5
72.5°	115.7	101.9	88.1	78.5	72.2	69.0	66.9	54.1	35.0	26.5	25.5
75°	86.0	73.2	62.6	50.9	43.5	40.3	36.1	26.5	14.9	8.5	7.4
77.5°	19.1	18.0	17.0	12.7	11.7	9.6	7.4	5.3	2.1	0.0	0.0
80°	1.1	1.1	1.1	1.1	1.1	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)