

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: P636068

Luminaire Tested: GWS-SA3F-722-U-T2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636068  
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-SA3F-722-U-T2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (48) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10698.1 lumens  
Efficiency: N/A  
Efficacy: 58.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

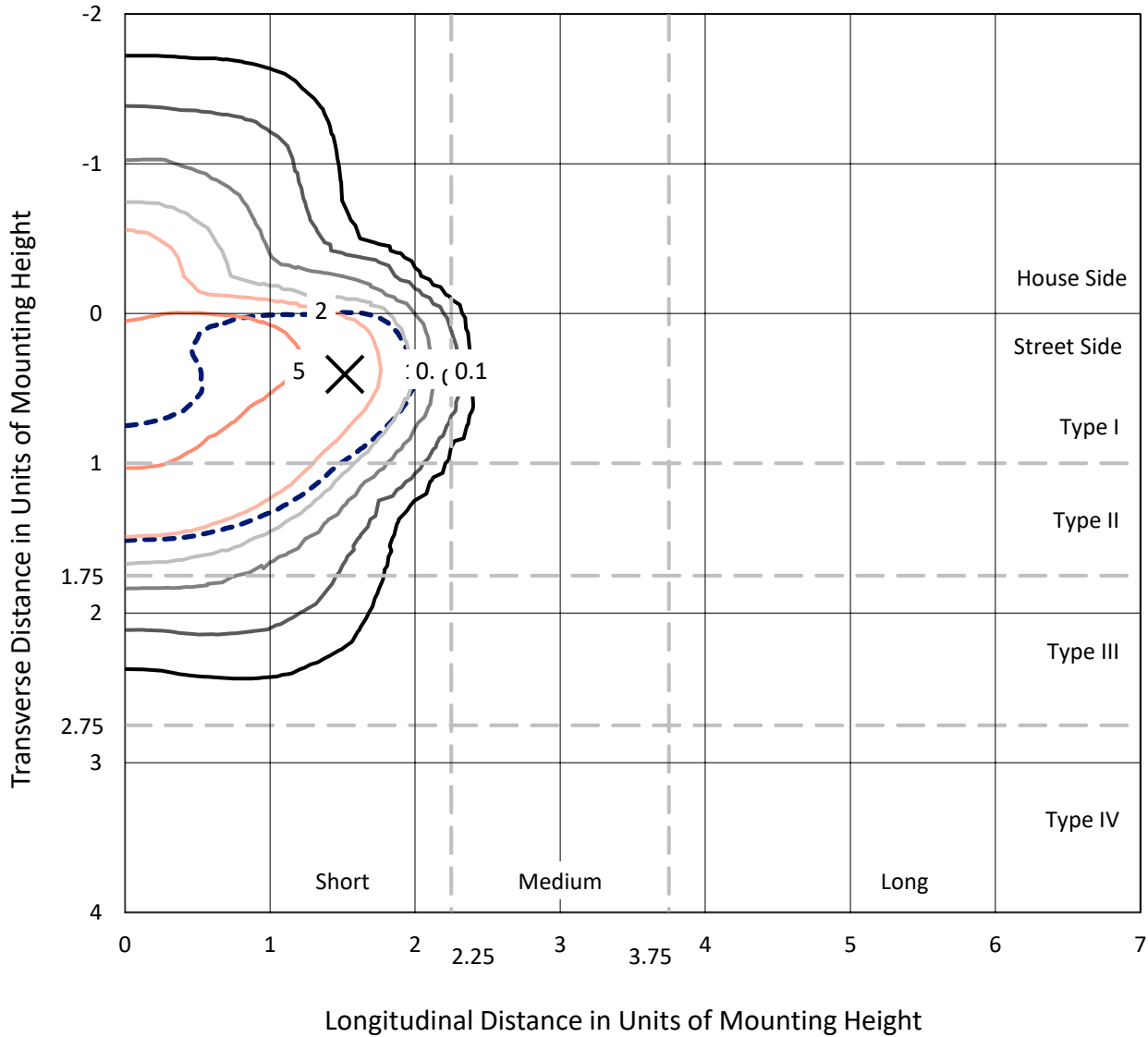
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

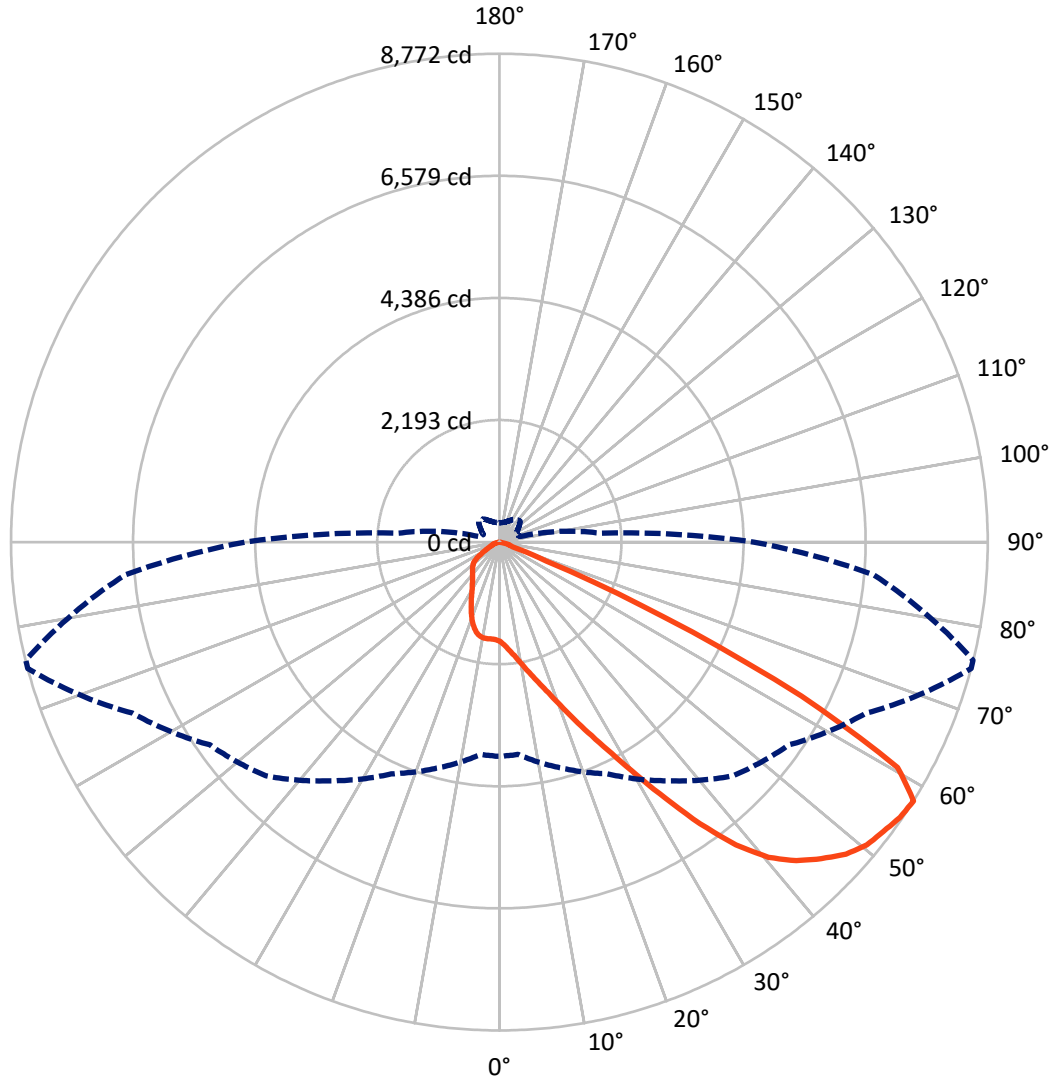
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.3 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	1747.5	0.0	1747.5
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	8950.6	0.0	8950.6
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	10698.1	0.0	10698.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.6	1.7
10°-20°	589.8	5.5
20°-30°	1080.1	10.1
30°-40°	1791.9	16.8
40°-50°	2736.7	25.6
50°-60°	3075.2	28.7
60°-70°	1134.3	10.6
70°-80°	108.4	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°	10698.1	100.0
0°-180°	10698.1	100.0

**Coefficient of Utilization**



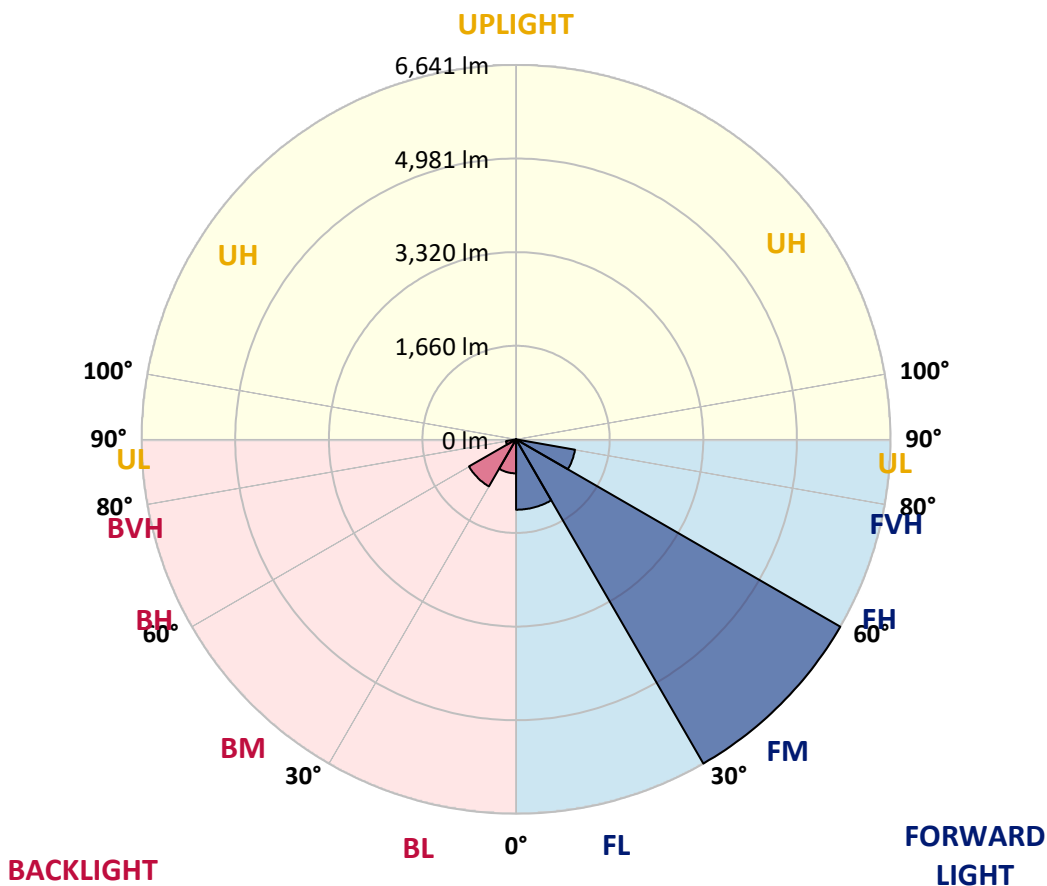
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1248.4	11.7			
FM (30°-60°)	6640.9	62.1			
FH (60°-80°)	1061.2	9.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	603.0	5.6	B2/1000		
BM (30°-60°)	963.0	9.0	B1/1000		
BH (60°-80°)	181.5	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: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1784.3	1784.3	1784.3	1784.3	1784.3	1784.3	1784.3	1784.3	1784.3	1784.3	1784.3
2.5°	1993.5	2014.1	2007.7	1994.7	1987.0	1959.9	1943.1	1894.0	1859.2	1855.3	1823.0
5°	2245.2	2241.3	2236.2	2220.7	2207.8	2165.2	2114.8	2032.2	1958.6	1949.6	1881.1
7.5°	2383.4	2385.9	2388.5	2385.9	2376.9	2344.6	2289.1	2192.3	2080.0	2072.2	1963.8
10°	2440.2	2445.3	2458.2	2482.8	2504.7	2502.1	2469.9	2370.5	2232.3	2219.4	2073.5
12.5°	2467.3	2473.7	2494.4	2540.9	2600.3	2646.7	2651.9	2562.8	2410.5	2389.8	2203.9
15°	2504.7	2511.2	2537.0	2597.7	2684.2	2775.9	2835.2	2778.4	2608.0	2586.1	2347.2
17.5°	2521.5	2530.5	2568.0	2648.0	2760.4	2901.1	3035.4	3030.2	2841.7	2824.9	2513.8
20°	2553.8	2560.2	2593.8	2680.3	2815.9	3018.6	3244.5	3325.9	3127.0	3102.5	2715.2
22.5°	2655.8	2658.4	2673.9	2728.1	2854.6	3103.8	3457.6	3670.6	3464.0	3431.7	2941.1
25°	2822.3	2821.0	2827.5	2836.5	2929.5	3190.3	3662.8	4059.2	3850.0	3815.2	3196.8
27.5°	3034.1	3034.1	3049.6	3023.7	3061.2	3297.5	3865.5	4505.9	4299.3	4250.3	3476.9
30°	3283.3	3282.0	3318.1	3276.8	3288.4	3466.6	4083.7	4992.7	4841.6	4780.9	3799.7
32.5°	3621.5	3613.8	3655.1	3598.3	3559.6	3722.2	4349.7	5501.4	5491.0	5398.1	4205.1
35°	4048.9	4036.0	4048.9	3993.4	3923.6	4079.9	4698.3	6008.8	6211.5	6113.3	4688.0
37.5°	4473.6	4515.0	4529.2	4433.6	4376.8	4533.0	5117.9	6463.2	6899.6	6797.6	5190.2
40°	4974.6	4961.7	5010.7	4903.6	4867.4	5040.4	5528.5	6801.5	7444.5	7347.6	5636.9
42.5°	5343.8	5367.1	5427.8	5368.4	5340.0	5502.6	5873.2	6999.0	7822.7	7727.2	5955.8
45°	5786.7	5803.5	5826.7	5777.7	5748.0	5908.1	6122.4	7085.5	8110.7	8007.4	6170.1
47.5°	6265.7	6278.6	6278.6	6177.9	6082.4	6148.2	6288.9	7134.6	8375.3	8275.9	6329.0
50°	6609.1	6615.6	6672.4	6601.4	6393.5	6291.5	6365.1	7182.4	8550.9	8458.0	6380.6
52.5°	6304.4	6296.7	6483.9	6631.1	6686.6	6483.9	6496.8	7252.1	8636.1	8556.1	6421.9
55°	5309.0	5296.1	5559.5	5917.1	6406.4	6665.9	6655.6	7293.4	8730.4	8681.3	6571.7
57.5°	3848.8	3826.8	4193.5	4591.1	5232.8	5936.5	6349.6	7270.2	8771.7	8767.8	6746.0
60°	2313.6	2295.6	2641.6	3059.9	3555.7	4263.2	4948.8	6512.3	8219.1	8226.9	6292.8
62.5°	1424.1	1440.9	1753.3	1966.3	2151.0	2364.0	2760.4	4380.7	6088.8	6139.2	4422.0
65°	958.0	970.9	1260.1	1528.7	1528.7	1249.8	1072.9	2094.2	3248.4	3163.2	2091.6
67.5°	643.0	657.2	885.7	1199.4	1244.6	871.5	435.1	624.9	905.1	877.9	517.7
70°	378.3	393.8	590.0	822.4	906.3	606.8	290.5	264.7	256.9	249.2	201.4
72.5°	169.1	175.6	300.8	418.3	382.2	255.6	205.3	211.7	200.1	196.2	164.0
75°	51.6	54.2	77.5	90.4	91.7	91.7	123.9	166.6	157.5	158.8	126.5
77.5°	12.9	12.9	20.7	19.4	10.3	9.0	23.2	37.4	38.7	34.9	25.8
80°	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3
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°	1784.3	1784.3	1784.3	1784.3	1784.3	1784.3	1784.3	1784.3	1784.3	1784.3	1784.3
2.5°	1808.8	1775.3	1753.3	1722.3	1700.4	1677.1	1656.5	1639.7	1630.7	1628.1	1629.4
5°	1850.1	1797.2	1745.6	1686.2	1644.9	1606.1	1575.1	1550.6	1539.0	1535.1	1535.1
7.5°	1913.4	1839.8	1748.1	1655.2	1585.5	1524.8	1488.6	1461.5	1451.2	1448.6	1440.9
10°	1996.0	1895.3	1744.3	1599.7	1501.5	1438.3	1412.5	1404.7	1408.6	1409.9	1408.6
12.5°	2095.4	1953.4	1719.7	1518.3	1412.5	1373.7	1376.3	1397.0	1420.2	1431.8	1434.4
15°	2201.3	2006.4	1664.2	1421.5	1336.3	1335.0	1372.4	1420.2	1465.4	1484.8	1489.9
17.5°	2320.1	2049.0	1579.0	1318.2	1270.4	1307.9	1375.0	1448.6	1509.3	1541.6	1548.0
20°	2450.5	2083.8	1470.6	1221.4	1212.3	1279.5	1372.4	1462.8	1537.7	1573.8	1580.3
22.5°	2586.1	2108.4	1345.3	1132.3	1159.4	1247.2	1347.9	1435.7	1506.7	1548.0	1553.2
25°	2741.0	2110.9	1217.5	1057.4	1110.3	1203.3	1288.5	1360.8	1420.2	1456.4	1460.2
27.5°	2876.6	2080.0	1103.9	996.7	1065.2	1149.1	1205.9	1245.9	1287.2	1307.9	1309.2
30°	3032.8	2025.7	996.7	947.7	1018.7	1081.9	1110.3	1119.4	1123.3	1127.1	1122.0
32.5°	3218.7	1959.9	916.7	899.9	965.7	1008.3	1016.1	998.0	976.1	945.1	937.3
35°	3447.2	1900.5	850.8	853.4	907.6	933.5	927.0	888.3	845.7	808.2	801.8
37.5°	3695.1	1850.1	800.5	808.2	844.4	862.5	843.1	800.5	781.1	748.8	750.1
40°	3914.6	1808.8	755.3	763.0	779.8	796.6	765.6	737.2	773.4	770.8	773.4
42.5°	4070.8	1774.0	716.6	712.7	724.3	735.9	712.7	698.5	759.2	742.4	751.4
45°	4162.5	1741.7	684.3	661.0	679.1	699.8	684.3	666.2	686.9	609.4	602.9
47.5°	4224.5	1723.6	655.9	610.7	643.0	679.1	646.8	602.9	573.2	506.1	500.9
50°	4230.9	1714.6	622.3	559.0	600.4	639.1	601.7	541.0	498.4	468.7	464.8
52.5°	4264.5	1732.7	575.8	493.2	538.4	600.4	574.5	513.9	455.8	429.9	424.8
55°	4414.3	1808.8	498.4	402.8	468.7	570.7	552.6	458.3	402.8	387.3	383.5
57.5°	4569.2	1824.3	392.5	318.9	408.0	528.1	504.8	422.2	368.0	349.9	346.0
60°	4178.0	1502.8	294.4	263.4	360.2	488.0	467.4	400.2	337.0	315.0	311.2
62.5°	2744.9	812.1	233.7	223.4	303.4	413.2	426.1	361.5	300.8	277.6	276.3
65°	1265.3	377.0	179.5	176.9	237.6	329.2	366.7	316.3	254.3	233.7	233.7
67.5°	344.7	187.2	140.7	130.4	161.4	220.8	267.3	236.3	180.8	156.2	154.9
70°	171.7	151.1	126.5	112.3	116.2	136.9	157.5	131.7	91.7	74.9	73.6
72.5°	140.7	123.9	107.2	95.5	87.8	83.9	81.3	65.8	42.6	32.3	31.0
75°	104.6	89.1	76.2	62.0	52.9	49.1	43.9	32.3	18.1	10.3	9.0
77.5°	23.2	21.9	20.7	15.5	14.2	11.6	9.0	6.5	2.6	0.0	0.0
80°	1.3	1.3	1.3	1.3	1.3	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)