

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: P631438

Luminaire Tested: GWS-SA1F-760-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631438  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1F-760-U-SL4-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (16) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

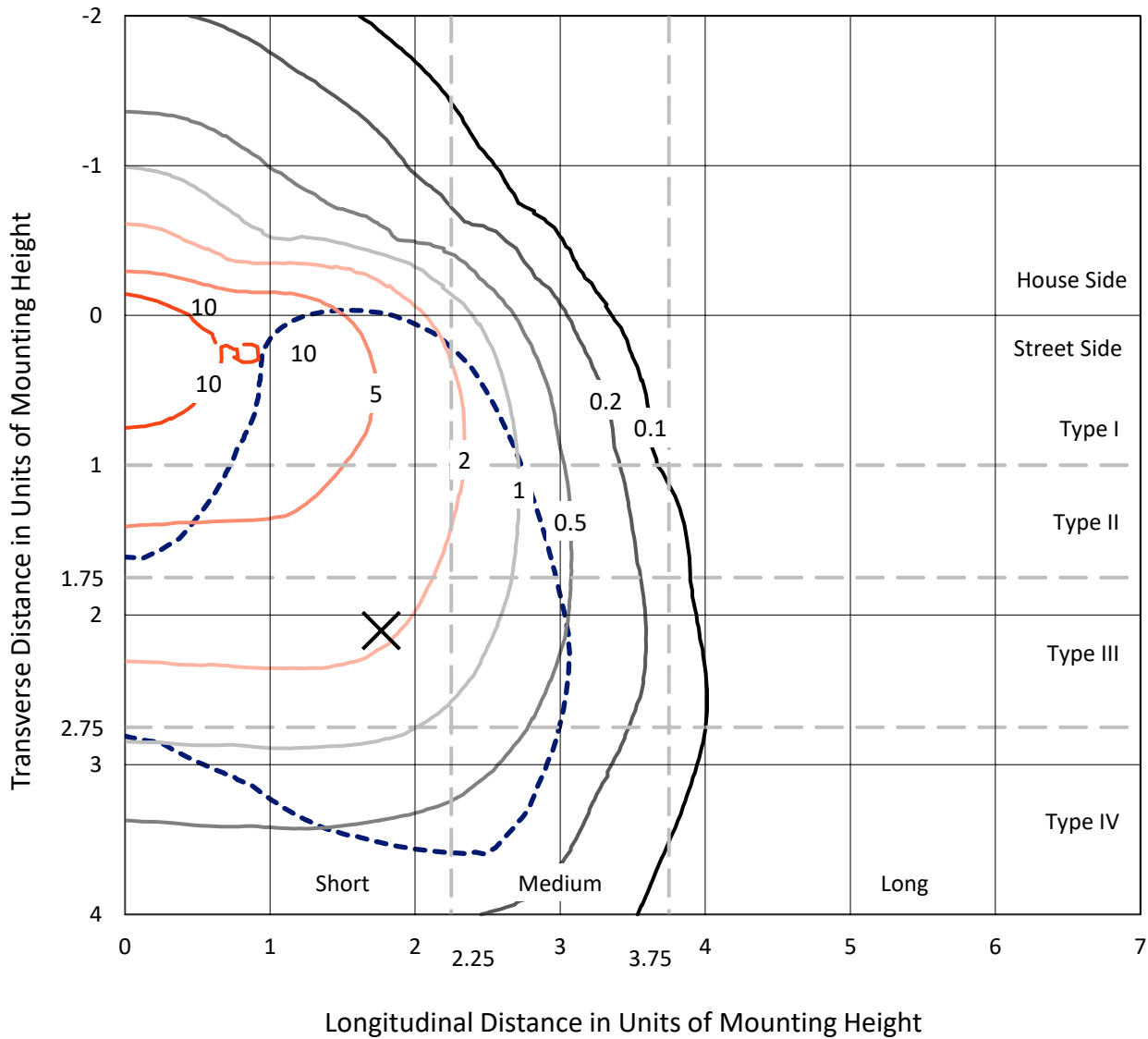
Lumens per Lamp: N/A  
Luminaire Lumens: 8163.2 lumens  
Efficiency: N/A  
Efficacy: 121.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

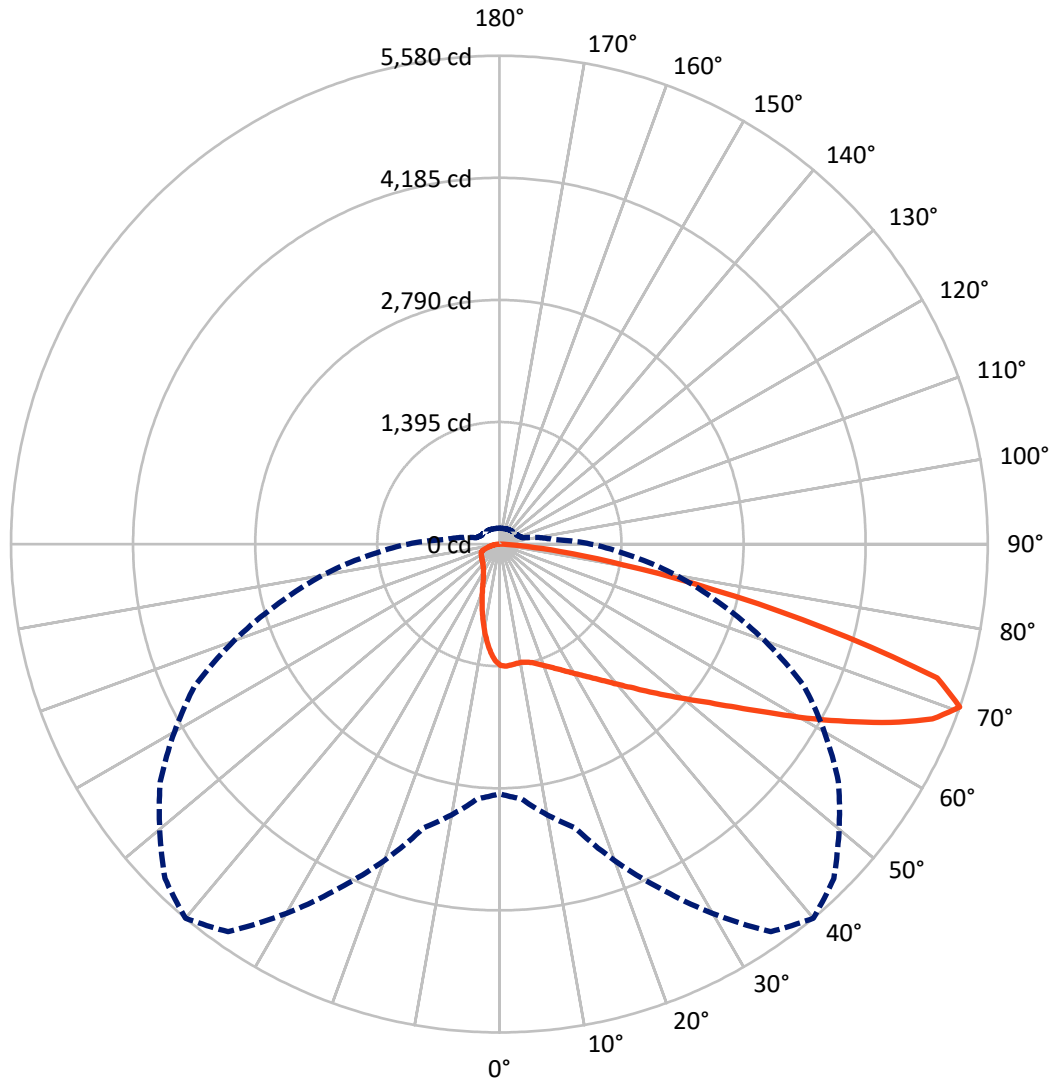
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1257.3	0.0	1257.3
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	6905.9	0.0	6905.9
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	8163.2	0.0	8163.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.5	1.5
10°-20°	319.2	3.9
20°-30°	501.2	6.1
30°-40°	753.6	9.2
40°-50°	1163.2	14.2
50°-60°	1727.4	21.2
60°-70°	2177.3	26.7
70°-80°	1259.1	15.4
80°-90°	139.7	1.7
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°	8163.2	100.0
0°-180°	8163.2	100.0

**Coefficient of Utilization**



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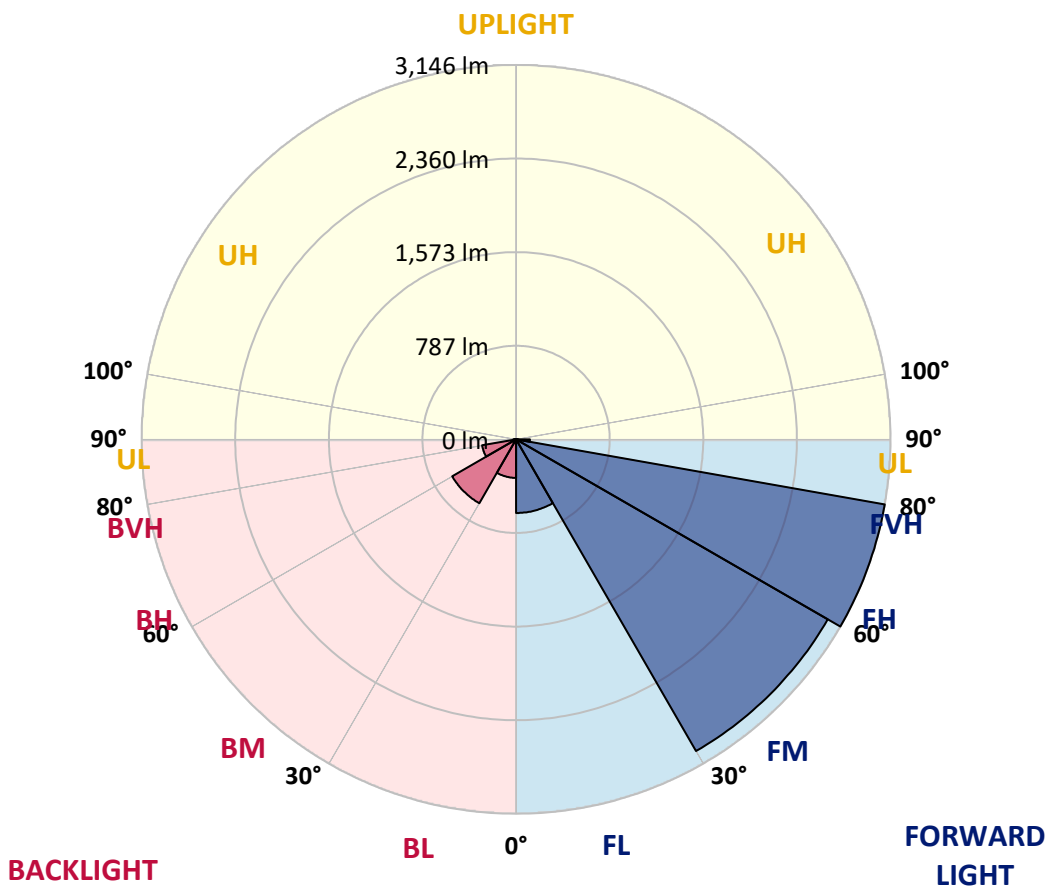
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	618.8	7.6			
FM (30°-60°)	3024.4	37.0			
FH (60°-80°)	3146.3	38.5			G2/5000
FVH (80°-90°)	116.4	1.4			G2/225
BL (0°-30°)	324.0	4.0	B1/500		
BM (30°-60°)	619.8	7.6	B1/1000		
BH (60°-80°)	290.2	3.6	B1/500		G1/500
BVH (80°-90°)	23.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1386.2	1386.2	1386.2	1386.2	1386.2	1386.2	1386.2	1386.2	1386.2	1386.2	1386.2
2.5°	1394.7	1397.2	1399.0	1401.4	1400.2	1396.6	1399.6	1399.6	1392.9	1385.6	1378.9
5°	1396.6	1399.6	1399.0	1398.4	1393.5	1387.4	1387.4	1383.8	1372.2	1360.6	1349.6
7.5°	1392.9	1392.3	1391.7	1389.9	1384.4	1377.7	1376.5	1369.1	1353.9	1338.1	1322.2
10°	1376.5	1375.8	1377.7	1381.9	1380.7	1374.6	1374.6	1367.9	1350.3	1330.8	1310.0
12.5°	1363.1	1363.1	1370.4	1381.9	1386.2	1383.8	1384.4	1379.5	1359.4	1336.2	1311.9
15°	1364.9	1365.5	1381.3	1400.2	1408.1	1406.3	1406.9	1401.4	1378.9	1355.7	1322.8
17.5°	1377.1	1380.1	1407.5	1433.7	1444.1	1441.7	1437.4	1428.2	1402.7	1376.5	1336.2
20°	1402.7	1407.5	1442.9	1475.8	1488.0	1482.5	1475.2	1456.9	1428.9	1400.2	1350.9
22.5°	1453.2	1456.3	1495.3	1527.6	1537.3	1530.6	1516.0	1489.8	1457.5	1427.6	1368.5
25°	1524.5	1528.2	1565.3	1595.2	1592.8	1584.8	1564.7	1532.4	1494.1	1462.4	1394.1
27.5°	1609.2	1615.3	1651.9	1675.6	1659.8	1648.2	1625.7	1586.7	1543.4	1514.8	1433.1
30°	1701.8	1704.3	1735.3	1759.1	1734.7	1718.9	1691.5	1649.4	1610.4	1589.1	1491.6
32.5°	1791.4	1793.8	1820.7	1834.1	1808.5	1796.9	1773.1	1728.6	1701.2	1689.6	1578.8
35°	1885.8	1885.2	1907.2	1918.8	1892.6	1887.7	1863.3	1829.2	1824.3	1839.5	1706.1
37.5°	1980.3	1974.8	1986.4	2001.6	1987.0	1991.9	1976.0	1964.5	1983.3	2022.9	1875.5
40°	2055.8	2055.8	2068.0	2086.9	2091.8	2113.1	2104.0	2119.2	2180.2	2274.6	2085.1
42.5°	2122.9	2123.5	2149.1	2178.3	2213.7	2246.6	2253.9	2293.5	2419.6	2567.7	2348.3
45°	2192.9	2193.6	2228.3	2270.9	2345.9	2408.6	2423.3	2512.2	2692.6	2872.9	2634.1
47.5°	2274.0	2267.3	2315.4	2386.7	2493.3	2583.5	2621.3	2747.4	2975.3	3197.1	2903.4
50°	2365.4	2351.4	2405.0	2528.1	2659.7	2783.4	2846.7	2991.2	3278.8	3496.3	3156.9
52.5°	2468.4	2460.4	2516.5	2666.4	2867.5	3010.0	3096.0	3285.5	3573.7	3794.2	3358.0
55°	2596.3	2577.4	2658.5	2849.2	3111.2	3292.8	3394.5	3576.7	3896.0	4064.8	3511.5
57.5°	2736.5	2715.7	2824.2	3077.7	3428.0	3627.3	3754.6	3904.5	4199.4	4271.9	3601.7
60°	2887.6	2880.9	3009.4	3345.8	3805.8	4037.4	4129.4	4265.2	4463.3	4392.0	3579.2
62.5°	3025.9	3023.5	3210.5	3636.4	4206.1	4460.8	4534.0	4569.9	4653.4	4384.1	3400.0
65°	3171.5	3192.2	3445.1	3973.4	4665.0	4914.8	4945.2	4853.9	4717.4	4176.3	3033.2
67.5°	3189.8	3230.0	3592.6	4289.0	5100.0	5335.8	5311.4	4961.7	4528.5	3598.0	2377.6
70°	2852.8	2922.9	3357.4	4337.1	5406.5	5580.2	5404.1	4729.5	3843.0	2606.7	1495.3
72.5°	2383.7	2444.0	2827.9	3698.6	5011.1	5232.2	4994.0	4003.2	2715.7	1495.3	761.7
75°	1855.4	1925.5	2279.5	2940.0	3751.6	3839.9	3720.5	2791.9	1492.8	616.6	346.1
77.5°	1132.1	1182.7	1458.1	1991.9	2625.0	2492.7	2112.5	1565.3	655.0	295.5	213.9
80°	500.9	531.9	718.4	1070.0	1516.6	1433.7	1130.3	668.4	358.3	187.7	149.3
82.5°	268.7	288.8	354.0	423.5	666.0	696.5	564.8	385.1	192.5	107.2	85.3
85°	118.2	129.8	160.9	153.5	218.7	215.1	216.9	264.4	92.0	49.4	55.4
87.5°	0.0	0.0	0.0	0.0	0.6	0.6	6.7	35.3	9.1	14.6	12.8
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°	1386.2	1386.2	1386.2	1386.2	1386.2	1386.2	1386.2	1386.2	1386.2	1386.2	1386.2
2.5°	1371.6	1360.6	1357.6	1353.9	1347.2	1335.6	1327.1	1317.4	1313.1	1308.2	1308.8
5°	1337.5	1324.1	1311.3	1294.8	1274.1	1250.9	1235.1	1216.8	1207.1	1197.9	1200.4
7.5°	1308.2	1287.5	1261.3	1226.6	1189.4	1148.0	1114.4	1088.2	1070.6	1058.4	1064.5
10°	1289.9	1265.6	1219.9	1163.2	1100.4	1037.1	988.9	943.8	915.8	893.9	892.7
12.5°	1286.3	1254.6	1188.2	1105.9	1015.1	930.4	859.8	798.8	761.7	734.2	744.6
15°	1289.9	1249.7	1160.8	1052.9	938.4	823.8	736.1	666.0	621.5	596.5	594.7
17.5°	1294.2	1244.8	1129.7	995.6	857.9	726.9	625.2	550.8	505.1	480.1	480.8
20°	1297.9	1237.5	1093.1	932.9	776.3	636.7	531.3	460.6	419.8	401.5	404.6
22.5°	1303.9	1230.2	1054.1	865.8	692.8	549.6	457.0	399.7	375.3	363.2	363.8
25°	1315.5	1226.0	1013.9	792.7	610.5	480.1	405.8	367.4	352.2	344.9	344.3
27.5°	1339.3	1229.6	971.9	722.0	536.2	427.1	372.9	347.9	337.6	332.7	332.1
30°	1378.9	1244.2	935.3	650.1	472.2	385.7	350.4	335.1	329.0	324.8	324.2
32.5°	1439.2	1271.7	895.7	583.1	420.4	355.2	332.7	324.8	320.5	318.1	318.1
35°	1530.6	1321.6	856.7	524.6	380.2	331.5	318.7	315.6	312.0	310.8	312.0
37.5°	1662.2	1401.4	821.4	473.4	351.6	313.2	303.4	304.7	301.6	303.4	305.3
40°	1829.2	1508.1	791.5	431.4	330.3	299.8	290.0	294.3	292.5	294.3	297.3
42.5°	2040.6	1640.3	769.0	398.5	315.0	288.8	279.7	283.9	282.7	285.2	288.2
45°	2276.4	1814.6	758.6	375.3	304.1	280.9	271.1	274.2	273.0	274.8	277.9
47.5°	2502.5	1973.0	767.7	361.9	294.9	274.2	263.8	265.1	264.4	263.8	265.7
50°	2697.5	2099.1	793.9	357.7	288.8	267.5	257.7	258.4	256.5	252.9	254.1
52.5°	2856.5	2200.3	809.8	357.7	285.8	260.2	251.0	251.6	248.0	243.1	243.7
55°	2961.3	2241.1	797.0	357.1	284.6	254.1	244.3	244.9	241.3	235.2	235.8
57.5°	2991.2	2201.5	743.4	350.4	283.3	249.2	237.6	238.9	236.4	229.7	229.7
60°	2907.7	2056.5	645.3	335.1	280.3	246.2	232.8	234.6	233.4	226.7	226.7
62.5°	2688.9	1798.7	528.3	312.0	271.8	242.5	228.5	232.2	235.2	231.5	230.9
65°	2279.5	1441.0	429.6	286.4	260.8	236.4	222.4	231.5	238.2	243.1	243.1
67.5°	1710.4	1031.6	350.4	259.6	244.3	224.2	214.5	223.0	227.9	230.9	232.8
70°	1042.5	606.9	276.0	228.5	220.6	206.0	198.6	190.1	183.4	182.2	182.8
72.5°	510.0	347.3	224.2	194.4	188.3	174.9	158.4	154.8	151.7	149.9	149.3
75°	280.9	241.9	185.2	161.5	150.5	134.1	130.4	124.3	123.1	120.6	121.3
77.5°	198.6	190.7	152.9	131.0	114.6	106.0	107.8	103.6	103.6	101.8	101.1
80°	149.3	149.9	117.6	95.7	84.7	81.6	83.5	83.5	82.3	81.6	81.0
82.5°	94.4	106.6	79.2	61.5	60.3	60.9	60.3	59.7	60.9	59.1	58.5
85°	65.2	76.8	48.1	36.6	36.6	35.9	37.2	36.6	37.8	35.9	35.9
87.5°	14.6	34.1	17.7	11.0	11.6	11.0	11.6	12.2	13.4	14.0	14.0
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)