

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: P631958

Luminaire Tested: GWS-SA2B-760-U-T3R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631958  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2B-760-U-T3R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: (32) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

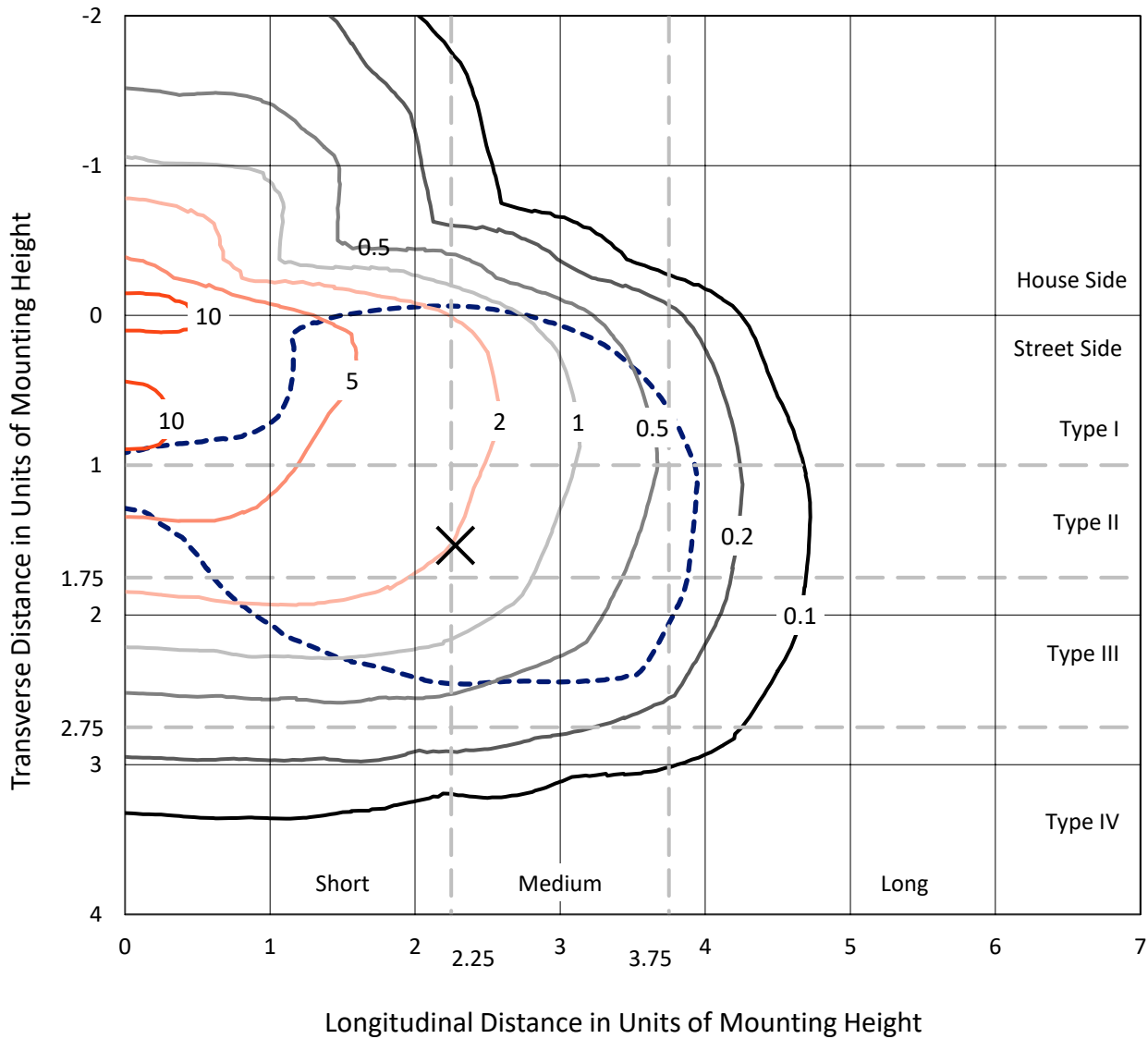
Lumens per Lamp: N/A  
Luminaire Lumens: 7078.2 lumens  
Efficiency: N/A  
Efficacy: 152.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): 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

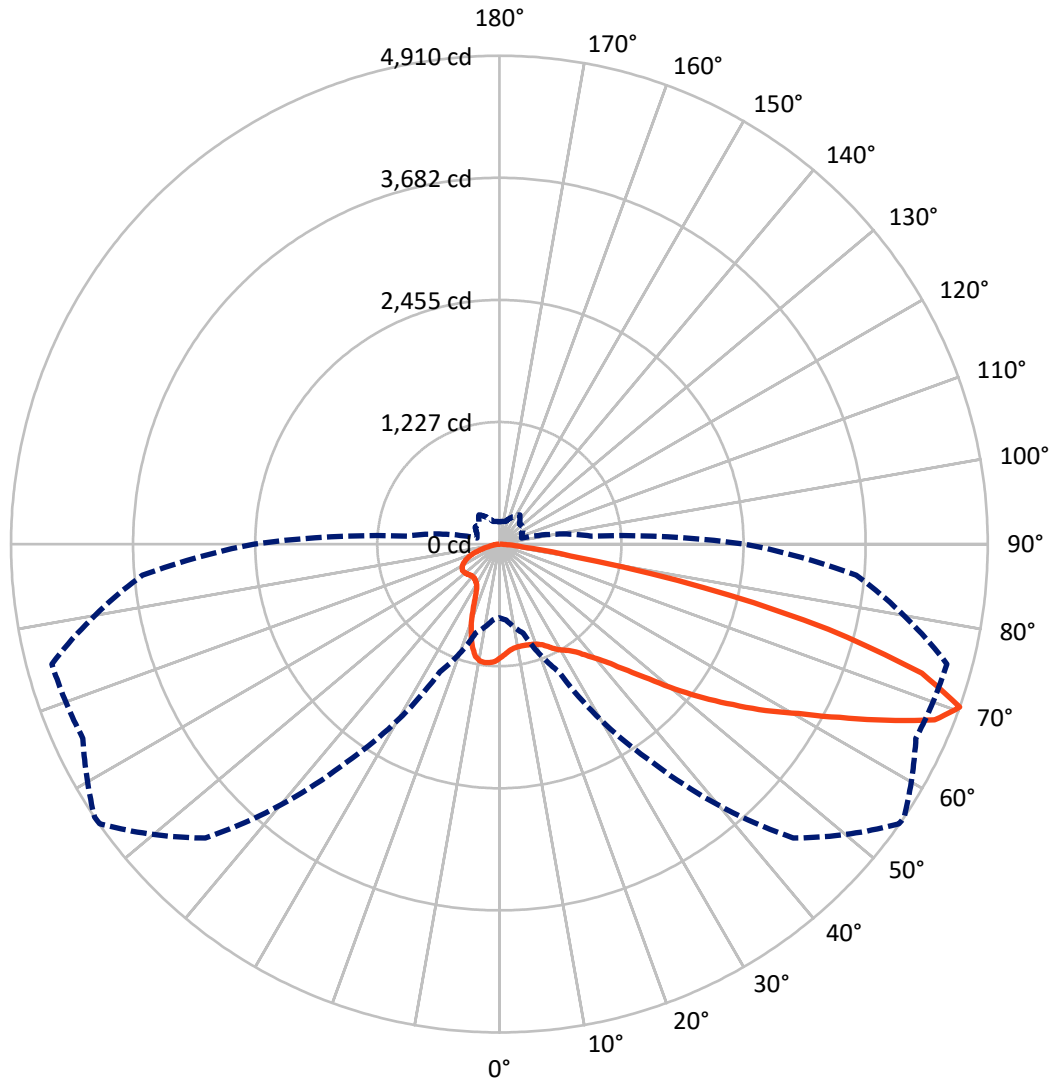
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1360.8	0.0	1360.8
	% Fixture	19.2	0.0	19.2
<b>Street Side</b>	Lumens	5717.4	0.0	5717.4
	% Fixture	80.8	0.0	80.8
<b>Total</b>	Lumens	7078.2	0.0	7078.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.7	1.5
10°-20°	286.5	4.0
20°-30°	473.6	6.7
30°-40°	708.1	10.0
40°-50°	1053.8	14.9
50°-60°	1498.2	21.2
60°-70°	1855.5	26.2
70°-80°	1024.6	14.5
80°-90°	72.2	1.0
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°	7078.2	100.0
0°-180°	7078.2	100.0

**Coefficient of Utilization**



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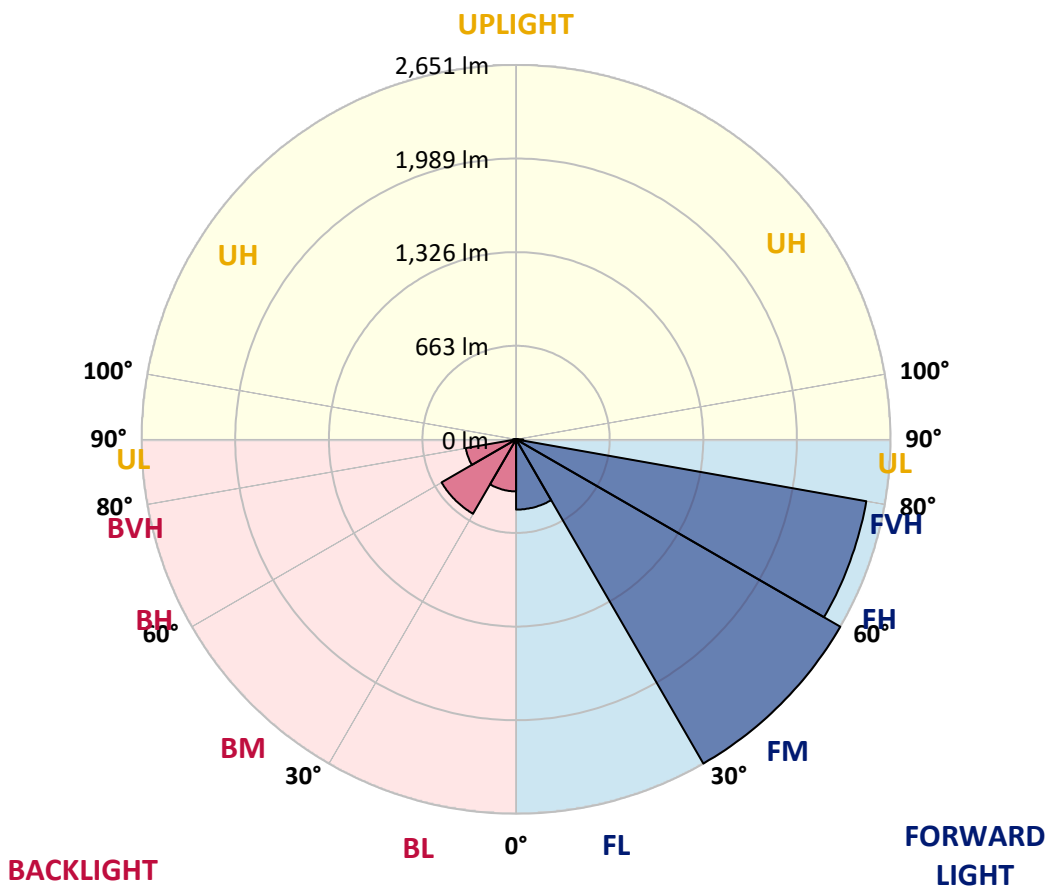
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	497.4	7.0			
FM (30°-60°)	2651.4	37.5			
FH (60°-80°)	2518.4	35.6			G2/5000
FVH (80°-90°)	50.1	0.7			G1/100
BL (0°-30°)	368.4	5.2	B1/500		
BM (30°-60°)	608.7	8.6	B1/1000		
BH (60°-80°)	361.7	5.1	B1/500		G1/500
BVH (80°-90°)	22.0	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5
2.5°	1069.2	1063.2	1070.2	1073.6	1082.6	1095.6	1107.1	1107.6	1113.6	1128.1	1142.0
5°	1020.7	1017.7	1019.7	1030.2	1039.7	1056.2	1073.6	1075.1	1092.1	1120.6	1148.5
7.5°	983.3	979.3	986.8	1000.3	1012.3	1030.7	1053.7	1055.7	1079.6	1122.6	1165.5
10°	929.4	926.4	940.4	958.3	984.3	1014.8	1045.2	1047.7	1079.1	1135.5	1195.4
12.5°	905.9	905.9	911.9	928.9	957.3	997.8	1043.7	1047.7	1087.1	1155.5	1233.9
15°	942.4	944.9	939.9	938.9	950.4	988.8	1045.7	1051.7	1102.1	1176.0	1271.8
17.5°	1015.7	1018.2	1005.3	984.8	973.3	997.3	1053.2	1059.7	1118.1	1198.4	1312.7
20°	1118.6	1121.6	1093.1	1061.7	1022.2	1021.7	1067.7	1073.6	1138.5	1222.9	1356.2
22.5°	1238.9	1240.9	1204.9	1155.0	1094.6	1067.2	1092.6	1098.6	1165.0	1256.8	1403.1
25°	1378.1	1384.1	1340.7	1268.3	1186.5	1129.6	1134.0	1141.0	1212.4	1302.3	1458.5
27.5°	1526.9	1534.4	1484.4	1404.6	1291.8	1198.4	1187.5	1193.4	1262.8	1330.2	1487.9
30°	1679.1	1684.6	1634.7	1543.3	1405.1	1276.3	1232.4	1235.9	1284.8	1343.7	1517.9
32.5°	1848.3	1843.8	1795.9	1690.6	1535.9	1369.6	1274.3	1273.3	1309.2	1370.6	1560.8
35°	2007.0	2013.5	1962.6	1846.3	1679.6	1484.9	1337.2	1333.2	1361.2	1414.6	1621.2
37.5°	2199.2	2197.2	2136.3	2010.5	1823.9	1595.2	1425.5	1418.6	1428.5	1482.9	1705.6
40°	2336.5	2350.4	2311.0	2193.7	1992.6	1731.0	1528.9	1513.4	1515.9	1567.3	1818.4
42.5°	2448.8	2461.8	2465.7	2390.9	2185.7	1898.7	1657.6	1642.2	1643.7	1716.5	1957.1
45°	2535.1	2552.6	2609.0	2587.0	2403.4	2092.4	1831.8	1815.9	1816.9	1897.7	2124.8
47.5°	2570.6	2589.5	2703.8	2756.2	2634.5	2324.0	2048.5	2025.0	2028.5	2117.8	2316.5
50°	2559.1	2584.5	2739.3	2886.5	2828.1	2559.6	2307.5	2291.1	2277.6	2407.3	2524.6
52.5°	2460.3	2488.2	2735.8	2969.4	2986.4	2782.2	2575.1	2565.6	2562.6	2714.8	2757.2
55°	2169.3	2216.2	2615.5	2991.3	3110.1	2991.8	2865.1	2849.1	2864.6	3044.3	2992.3
57.5°	2008.0	2043.0	2379.9	2966.9	3211.5	3191.5	3154.6	3156.1	3173.5	3402.1	3277.4
60°	1916.2	1957.1	2249.1	2900.0	3308.8	3434.1	3457.5	3457.5	3489.0	3788.0	3566.9
62.5°	1794.4	1835.8	2126.8	2771.2	3398.6	3719.6	3838.4	3836.9	3849.4	4201.8	3849.9
65°	1547.3	1585.8	1881.3	2568.1	3442.6	4034.0	4271.1	4266.6	4241.7	4570.1	4037.0
67.5°	1123.6	1160.0	1441.0	2181.7	3284.3	4287.6	4716.9	4718.9	4569.6	4802.2	4047.0
70°	740.7	765.7	926.4	1417.1	2670.9	4178.3	4903.5	4909.5	4620.0	4657.5	3601.8
72.5°	462.2	479.7	578.5	845.0	1578.3	3307.3	4424.4	4440.8	4156.3	4092.9	2959.4
75°	307.0	319.0	384.8	492.7	730.2	1789.9	3363.2	3416.1	3331.3	3208.5	2061.9
77.5°	184.7	194.7	245.1	313.0	323.4	699.3	1963.1	2099.9	2111.9	1675.1	863.5
80°	84.4	95.8	135.3	178.7	172.2	243.6	692.3	724.3	854.5	532.1	272.5
82.5°	49.9	54.9	89.8	88.8	73.4	118.3	249.1	255.6	217.1	194.7	116.3
85°	20.0	23.5	37.9	33.4	27.0	38.4	93.8	98.3	94.3	84.9	42.9
87.5°	0.0	0.0	0.0	0.0	0.5	1.0	8.5	9.0	13.0	23.5	13.0
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°	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5
2.5°	1151.0	1148.0	1163.0	1174.5	1179.5	1184.5	1180.0	1178.5	1178.5	1168.5	1163.5
5°	1163.5	1165.0	1185.5	1194.9	1194.9	1190.9	1179.0	1170.5	1167.5	1154.5	1151.0
7.5°	1187.0	1193.4	1212.4	1211.9	1197.9	1176.0	1146.0	1123.1	1102.1	1093.1	1087.6
10°	1225.4	1233.9	1246.9	1225.9	1187.0	1129.1	1065.7	1015.7	985.8	961.8	961.8
12.5°	1269.3	1277.3	1274.8	1226.4	1146.0	1037.7	946.4	889.0	847.0	825.1	825.1
15°	1313.2	1319.7	1292.8	1203.4	1060.7	916.4	816.6	747.7	711.3	690.8	690.8
17.5°	1357.7	1357.2	1300.3	1150.5	949.4	782.2	684.3	630.9	618.4	614.9	614.4
20°	1400.6	1389.1	1290.8	1062.2	820.1	646.9	585.0	588.5	607.0	614.9	615.9
22.5°	1449.0	1420.6	1262.8	949.4	673.3	553.0	557.0	586.0	612.9	624.9	626.4
25°	1498.4	1447.5	1215.9	817.1	550.6	518.6	549.6	582.0	612.4	627.9	629.4
27.5°	1518.4	1447.5	1136.0	663.9	485.2	504.1	538.1	569.5	601.5	619.4	622.9
30°	1534.9	1435.0	1024.2	525.6	458.2	490.2	519.6	548.6	580.0	602.0	606.0
32.5°	1557.8	1424.0	889.0	441.7	445.7	476.7	497.1	521.6	550.1	564.5	563.0
35°	1584.8	1407.1	725.7	401.8	435.2	465.2	479.7	494.1	481.2	480.7	482.2
37.5°	1623.2	1392.1	583.5	383.8	428.3	457.2	469.2	438.2	420.3	412.8	409.8
40°	1678.6	1386.1	460.2	373.4	427.3	456.7	448.2	400.3	375.9	349.9	349.4
42.5°	1748.5	1381.6	380.3	368.4	430.8	468.2	419.3	375.4	324.9	313.5	312.5
45°	1838.3	1374.6	340.4	367.4	439.2	477.2	416.3	340.9	306.5	301.5	301.5
47.5°	1946.6	1363.6	322.4	367.4	448.7	473.2	407.3	333.4	298.0	303.5	307.0
50°	2070.9	1349.7	313.0	366.4	458.2	473.2	388.3	331.9	296.0	324.4	335.9
52.5°	2203.7	1333.7	306.5	362.4	464.7	473.7	389.3	336.9	298.0	329.4	338.9
55°	2350.4	1331.2	297.5	353.9	466.7	460.7	391.8	347.9	301.0	298.5	299.0
57.5°	2535.6	1361.2	291.0	341.4	458.7	434.3	396.8	355.9	297.5	298.0	301.5
60°	2729.3	1417.6	296.5	329.4	442.2	409.3	400.3	351.9	280.5	272.5	273.5
62.5°	2894.0	1460.5	301.0	323.9	418.3	387.3	396.8	342.9	271.0	269.0	273.5
65°	2962.9	1425.0	290.0	312.5	383.3	360.4	389.3	331.4	263.0	255.6	256.1
67.5°	2886.5	1258.8	268.5	287.0	343.9	325.9	377.3	316.5	252.1	243.1	241.1
70°	2465.7	924.9	231.6	246.6	296.0	285.5	358.9	297.0	234.6	228.1	223.6
72.5°	1987.1	654.9	192.2	196.2	232.1	240.6	326.9	272.5	214.6	196.2	189.7
75°	1383.1	411.3	160.2	156.2	167.7	183.7	255.1	226.1	185.2	165.7	159.7
77.5°	595.0	211.1	125.3	123.3	111.8	127.3	195.7	188.7	155.2	132.8	129.3
80°	199.2	122.3	90.3	86.9	74.4	89.3	137.8	150.7	121.8	98.3	92.3
82.5°	99.8	70.9	57.4	51.9	49.9	56.4	81.4	93.8	84.4	67.9	57.4
85°	48.9	40.4	31.4	30.9	26.0	24.5	33.9	39.9	37.9	28.0	26.5
87.5°	18.0	16.0	10.0	8.0	5.0	3.5	2.0	2.0	1.5	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

(END OF REPORT)