

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: P632308

Luminaire Tested: GWS-SA2C-740-U-RW-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632308  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2C-740-U-RW-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

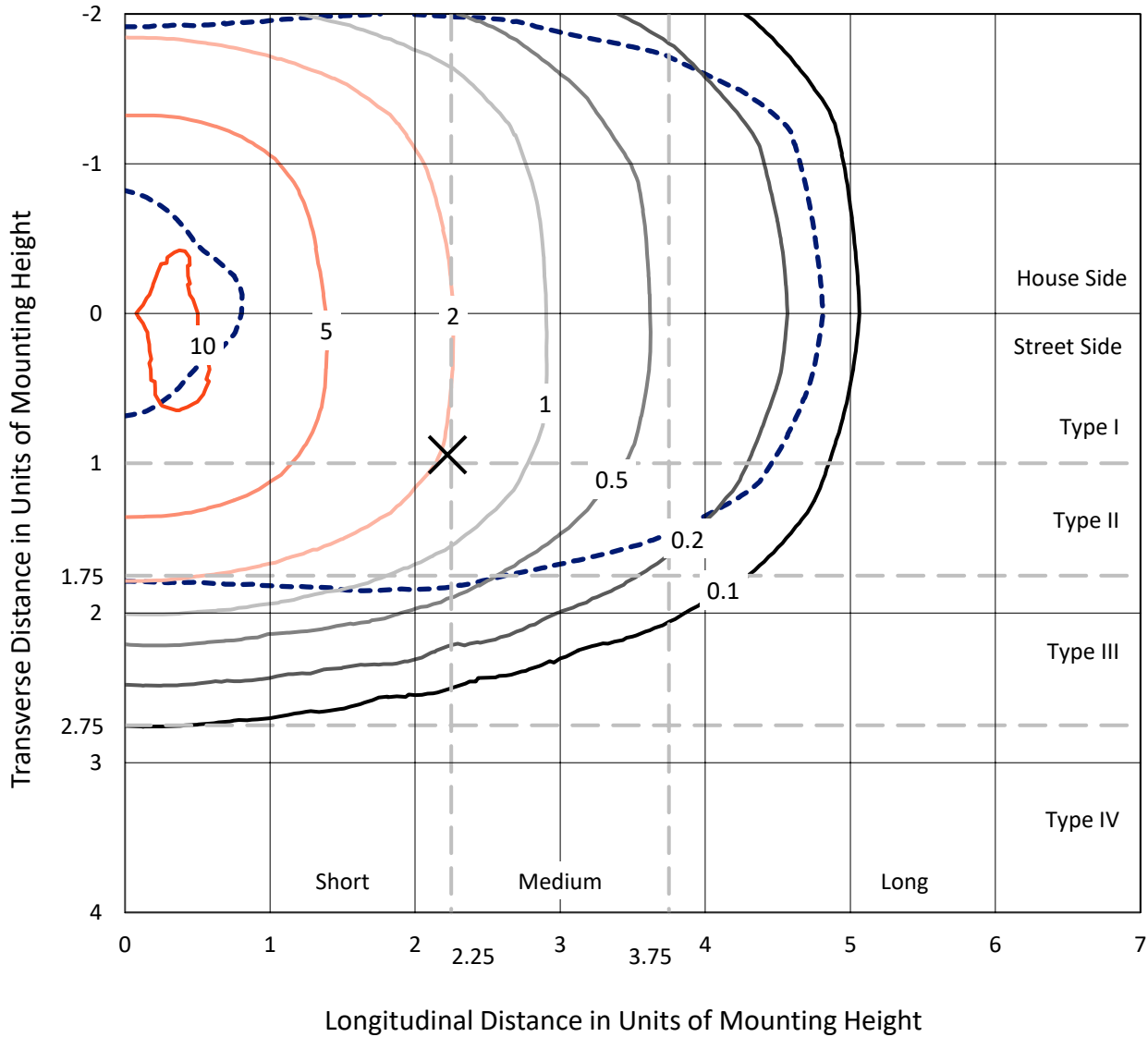
Lumens per Lamp: N/A  
Luminaire Lumens: 9527.6 lumens  
Efficiency: N/A  
Efficacy: 150.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 63.2  
Input Voltage (V): 120  
Input Current (Ain): 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

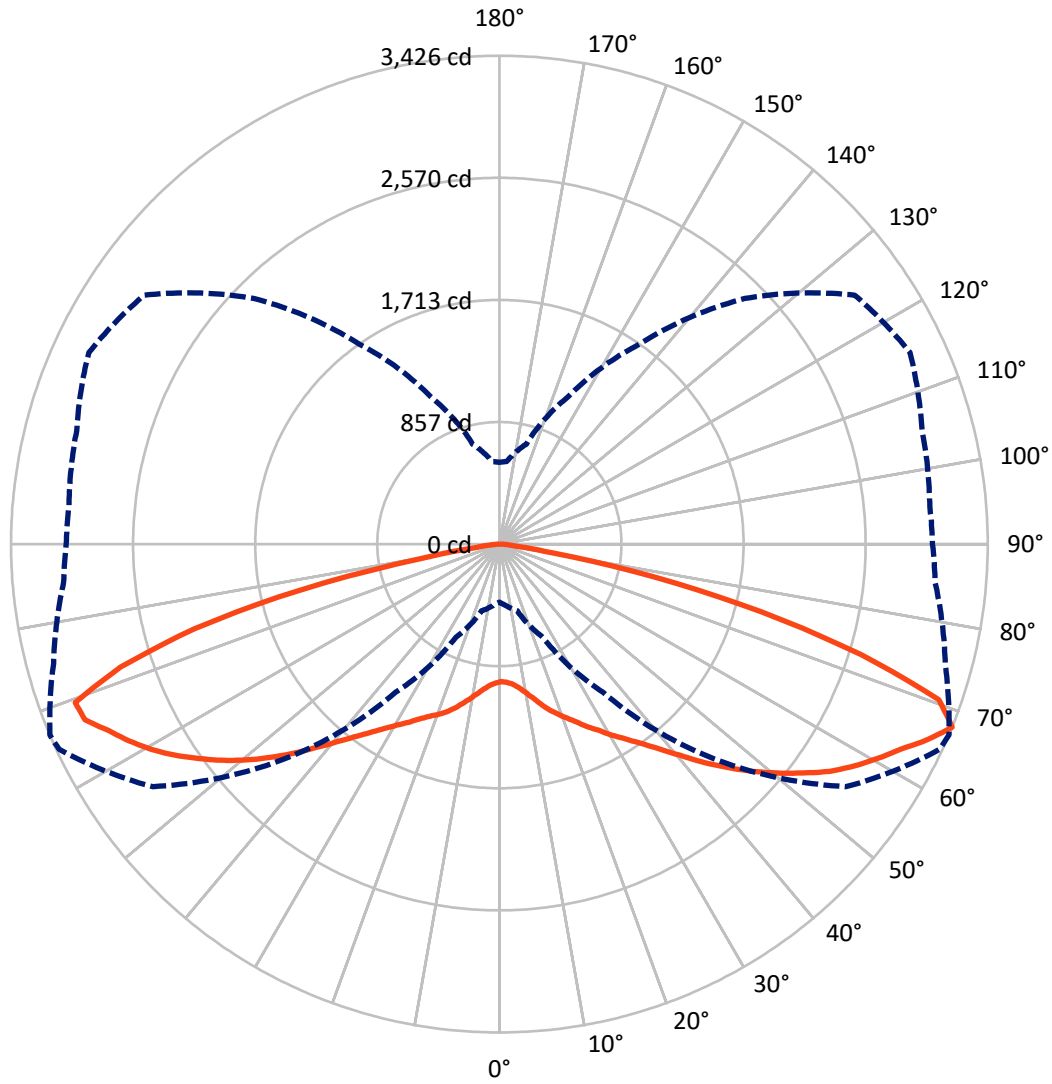
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4711.2	0.0	4711.2
	% Fixture	49.4	0.0	49.4
<b>Street Side</b>	Lumens	4816.4	0.0	4816.4
	% Fixture	50.6	0.0	50.6
<b>Total</b>	Lumens	9527.6	0.0	9527.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.7	1.0
10°-20°	319.8	3.4
20°-30°	627.4	6.6
30°-40°	1068.9	11.2
40°-50°	1716.4	18.0
50°-60°	2332.2	24.5
60°-70°	2230.9	23.4
70°-80°	1060.6	11.1
80°-90°	76.9	0.8
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°	9527.6	100.0
0°-180°	9527.6	100.0

**Coefficient of Utilization**



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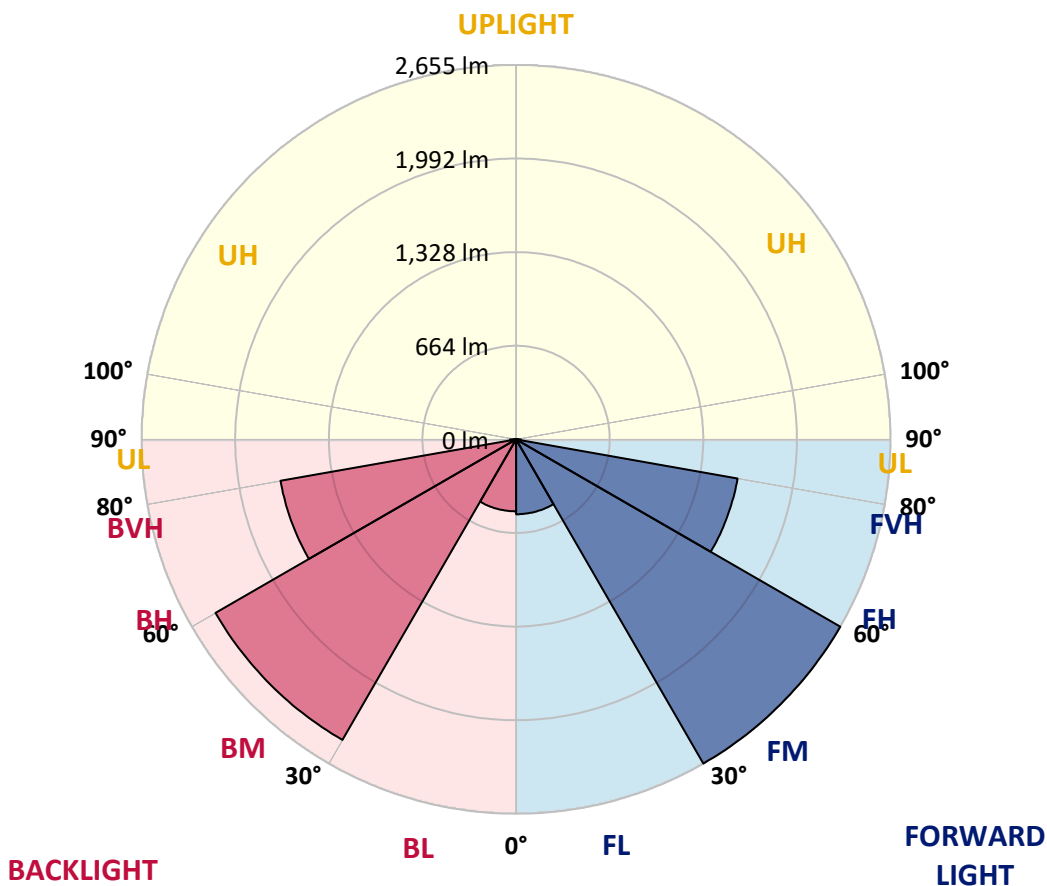
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	531.2	5.6			
FM (30°-60°)	2655.4	27.9			
FH (60°-80°)	1595.2	16.7			G1/1800
FVH (80°-90°)	34.6	0.4			G1/100
BL (0°-30°)	510.6	5.4	B2/1000		
BM (30°-60°)	2462.0	25.8	B2/2500		
BH (60°-80°)	1696.4	17.8	B3/2500		G3/2500
BVH (80°-90°)	42.3	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	964.7	964.7	964.7	964.7	964.7	964.7	964.7	964.7	964.7	964.7	964.7
2.5°	944.8	946.1	948.1	952.1	956.1	962.1	968.0	967.4	970.0	972.0	974.0
5°	939.5	940.8	944.2	949.5	955.4	965.4	978.0	983.3	987.3	994.6	1001.2
7.5°	950.8	953.4	958.1	965.4	974.7	987.3	1004.5	1013.8	1019.8	1033.1	1044.3
10°	966.0	969.4	978.7	992.6	1006.5	1025.8	1047.7	1061.6	1065.6	1082.8	1104.1
12.5°	980.6	984.6	999.9	1025.1	1050.3	1076.2	1102.1	1119.3	1120.6	1143.9	1167.8
15°	1003.9	1007.2	1027.8	1060.3	1098.7	1134.6	1166.4	1178.4	1183.7	1200.3	1230.1
17.5°	1055.0	1058.9	1085.5	1120.6	1161.1	1198.9	1230.8	1240.7	1240.7	1254.7	1279.2
20°	1110.0	1114.0	1149.2	1194.3	1243.4	1281.9	1306.4	1297.1	1293.8	1297.8	1315.0
22.5°	1171.7	1179.0	1212.9	1265.3	1325.7	1372.8	1385.4	1357.5	1348.2	1338.9	1342.9
25°	1250.7	1259.3	1292.5	1348.2	1407.3	1457.0	1464.3	1421.2	1415.9	1383.4	1371.4
27.5°	1341.6	1348.2	1389.4	1444.4	1499.5	1541.3	1549.3	1496.2	1478.3	1433.2	1405.3
30°	1459.0	1465.0	1500.8	1555.2	1603.0	1632.2	1642.2	1569.2	1555.2	1486.2	1443.1
32.5°	1587.1	1589.7	1626.2	1678.6	1721.1	1749.0	1735.0	1650.1	1629.5	1551.9	1492.9
35°	1733.7	1733.7	1780.8	1823.3	1857.1	1865.1	1838.5	1741.7	1717.8	1633.5	1559.9
37.5°	1877.7	1881.7	1925.5	1975.9	2005.7	2004.4	1956.0	1849.8	1822.6	1731.1	1649.5
40°	2033.6	2042.2	2086.0	2142.4	2171.0	2167.0	2092.7	1974.6	1946.7	1838.5	1758.9
42.5°	2176.9	2190.9	2242.0	2299.7	2330.9	2328.2	2250.6	2117.9	2090.7	1968.6	1889.0
45°	2291.1	2305.6	2369.3	2449.6	2499.4	2494.7	2416.5	2266.5	2233.3	2105.3	2017.7
47.5°	2391.2	2406.5	2477.5	2562.4	2641.4	2649.3	2577.7	2416.5	2381.3	2251.9	2153.0
50°	2468.2	2475.5	2555.1	2648.0	2739.6	2784.0	2721.7	2567.1	2524.6	2396.5	2285.1
52.5°	2462.2	2472.2	2570.4	2696.4	2819.2	2892.2	2849.1	2709.1	2667.9	2528.6	2419.8
55°	2340.8	2350.8	2467.5	2651.3	2863.6	2971.1	2966.5	2844.4	2814.5	2663.3	2559.8
57.5°	2163.7	2185.6	2301.7	2500.1	2805.3	3034.2	3052.7	2967.8	2936.6	2795.3	2698.4
60°	1846.5	1875.7	2009.7	2267.2	2618.2	3012.9	3145.0	3072.0	3052.7	2918.1	2823.8
62.5°	1341.6	1362.8	1541.3	1879.0	2340.8	2861.7	3222.6	3179.5	3164.9	3028.2	2937.3
65°	803.5	851.9	995.2	1329.0	1888.3	2576.4	3180.1	3320.1	3304.9	3141.7	3034.2
67.5°	406.7	428.6	485.0	720.6	1269.9	2131.8	2967.2	3407.7	3426.3	3238.5	3068.7
70°	252.1	258.1	274.0	355.6	634.3	1400.6	2426.4	3179.5	3270.4	3223.3	2979.1
72.5°	202.4	203.7	206.3	221.6	304.5	654.9	1534.0	2490.1	2654.0	3010.3	2851.0
75°	167.9	168.5	169.2	173.8	189.8	267.4	746.4	1711.2	1902.9	2558.4	2643.4
77.5°	134.7	131.4	134.0	136.0	140.0	149.3	257.4	913.0	1107.4	1679.3	2044.2
80°	87.6	86.3	91.6	93.6	97.5	103.5	137.3	309.9	376.2	611.1	650.2
82.5°	47.1	44.5	55.7	53.7	55.7	60.4	80.9	113.5	127.4	184.5	155.9
85°	14.6	14.6	15.3	17.9	21.9	21.2	35.2	55.7	61.7	79.0	58.4
87.5°	2.7	2.7	2.7	2.7	2.7	3.3	7.3	11.3	15.3	27.2	20.6
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°	964.7	964.7	964.7	964.7	964.7	964.7	964.7	964.7	964.7	964.7	964.7
2.5°	978.0	972.0	975.3	977.3	976.7	975.3	968.7	967.4	964.1	958.8	957.4
5°	1007.2	1000.6	1001.2	999.2	992.6	984.0	969.4	962.1	956.1	949.5	948.8
7.5°	1053.0	1045.7	1043.7	1034.4	1015.8	995.9	972.7	959.4	949.5	940.8	939.5
10°	1111.4	1104.1	1097.4	1075.5	1045.0	1018.5	987.9	968.7	954.1	943.5	941.5
12.5°	1176.4	1170.4	1153.8	1122.0	1085.5	1054.3	1023.1	999.2	978.0	962.1	960.1
15°	1248.7	1235.4	1210.2	1169.1	1134.6	1109.4	1071.5	1039.0	1005.2	984.0	979.3
17.5°	1299.1	1287.8	1258.0	1218.2	1191.0	1169.1	1124.6	1078.2	1032.4	1001.2	994.6
20°	1335.0	1323.0	1289.2	1260.0	1251.4	1232.8	1181.0	1127.3	1074.2	1035.7	1027.1
22.5°	1360.8	1348.2	1313.7	1299.1	1311.1	1307.7	1257.3	1196.3	1133.3	1087.5	1076.9
25°	1385.4	1373.4	1342.9	1348.2	1380.1	1390.0	1335.6	1264.6	1193.0	1139.2	1126.6
27.5°	1408.6	1393.3	1379.4	1408.6	1453.7	1472.3	1414.6	1334.3	1256.7	1201.6	1191.6
30°	1444.4	1426.5	1424.5	1467.0	1538.6	1554.6	1490.9	1410.6	1333.6	1277.9	1265.3
32.5°	1489.5	1473.0	1474.3	1538.0	1620.9	1634.2	1579.8	1504.8	1427.8	1372.1	1354.9
35°	1550.6	1530.0	1541.3	1619.6	1703.2	1727.7	1684.0	1621.6	1546.6	1489.5	1470.3
37.5°	1634.9	1605.0	1628.2	1710.5	1794.8	1831.2	1797.4	1751.0	1676.7	1618.9	1601.0
40°	1742.3	1717.8	1727.1	1818.0	1904.9	1948.7	1927.5	1881.7	1808.0	1747.6	1727.1
42.5°	1869.7	1845.2	1841.9	1938.7	2025.7	2092.0	2071.4	2029.6	1953.3	1884.3	1864.4
45°	1994.5	1971.9	1976.6	2075.4	2172.9	2245.3	2224.7	2175.6	2092.7	2013.0	1997.1
47.5°	2124.5	2105.9	2109.9	2214.7	2322.2	2394.6	2368.7	2309.0	2212.1	2127.2	2107.9
50°	2257.9	2236.6	2242.6	2352.8	2468.9	2537.2	2497.4	2409.2	2302.3	2219.4	2202.8
52.5°	2390.6	2365.4	2380.6	2484.8	2604.9	2659.3	2585.6	2478.8	2375.3	2293.0	2274.5
55°	2543.2	2516.6	2500.1	2611.5	2730.3	2752.8	2652.0	2527.3	2404.5	2311.0	2299.7
57.5°	2682.5	2660.0	2628.8	2740.2	2827.8	2811.2	2703.1	2514.0	2333.5	2213.4	2197.5
60°	2807.2	2788.0	2760.8	2855.7	2895.5	2858.3	2661.9	2356.7	2158.4	2033.0	2025.7
62.5°	2922.0	2901.5	2876.3	2957.2	2951.9	2865.6	2474.8	2115.2	1849.8	1715.1	1703.2
65°	3012.9	2994.4	2987.1	3050.8	3042.1	2723.0	2183.6	1719.8	1351.5	1199.6	1195.0
67.5°	3038.8	3031.5	3070.7	3178.8	3044.1	2436.4	1712.5	1140.5	725.9	581.9	573.3
70°	2941.9	2941.3	3053.4	3208.0	2768.1	1861.1	1010.5	514.2	364.9	323.8	318.5
72.5°	2815.9	2813.9	2902.8	2767.4	2052.9	1018.5	425.3	275.4	228.2	217.0	217.0
75°	2608.9	2603.6	2670.6	2105.3	1154.5	383.5	225.6	189.1	179.1	177.2	177.2
77.5°	2126.5	2082.0	1976.6	1301.1	402.7	188.4	149.3	148.6	142.7	142.0	142.0
80°	699.3	699.3	812.8	496.3	177.8	116.1	105.5	110.8	104.8	100.9	100.2
82.5°	114.1	157.2	223.6	142.0	96.2	72.3	65.0	69.0	72.3	57.7	57.7
85°	45.1	59.1	86.3	66.3	44.5	29.2	31.2	34.5	30.5	26.5	25.9
87.5°	17.3	21.2	30.5	15.9	9.3	5.3	3.3	3.3	2.7	2.7	2.7
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)