

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: P637285

Luminaire Tested: GWS-SA4C-740-U-T2R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637285  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4C-740-U-T2R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19793.6 lumens  
Efficiency: N/A  
Efficacy: 154.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 128.5  
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

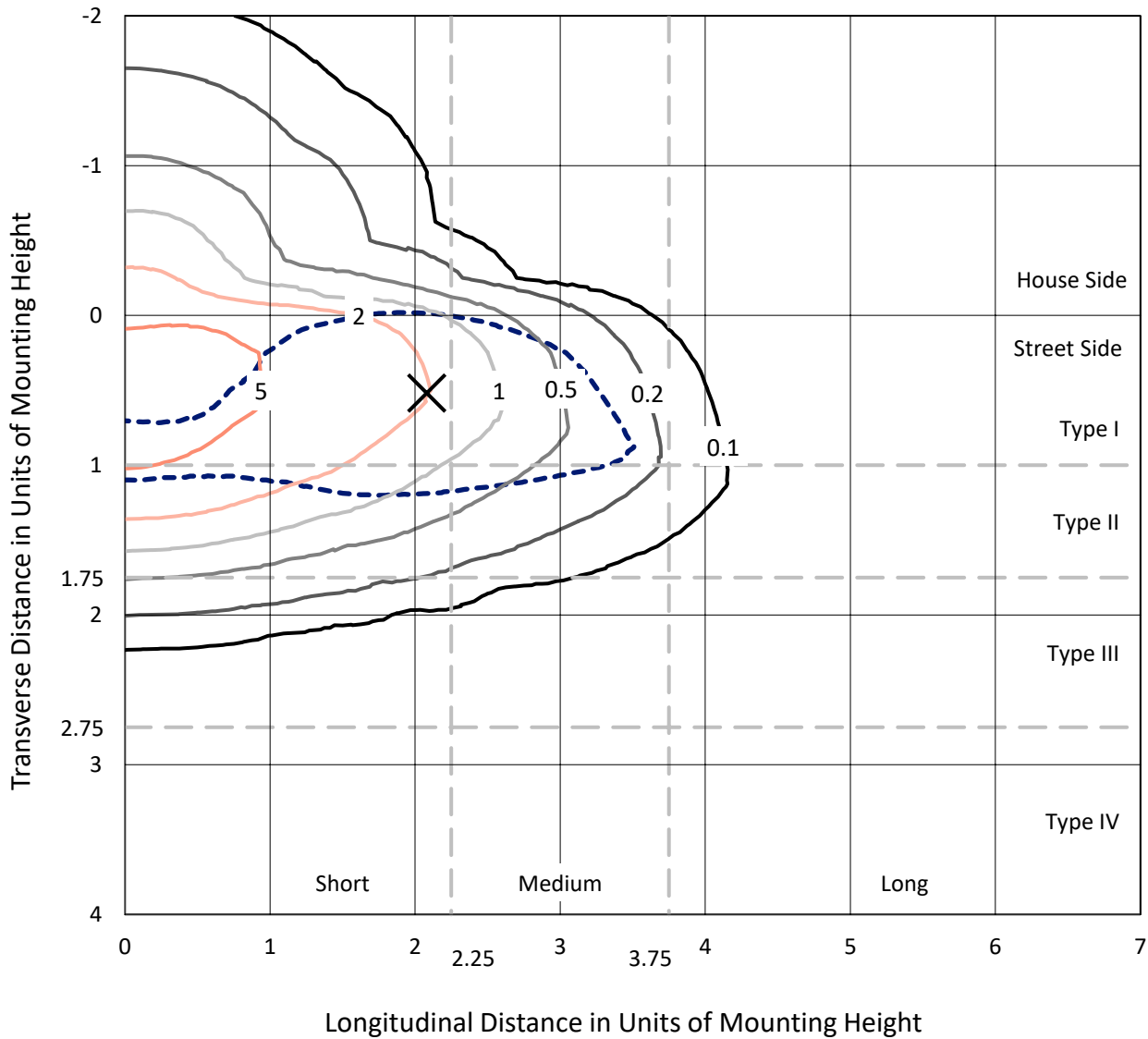


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### Iso-Footcandle Lines of Horizontal Illumination

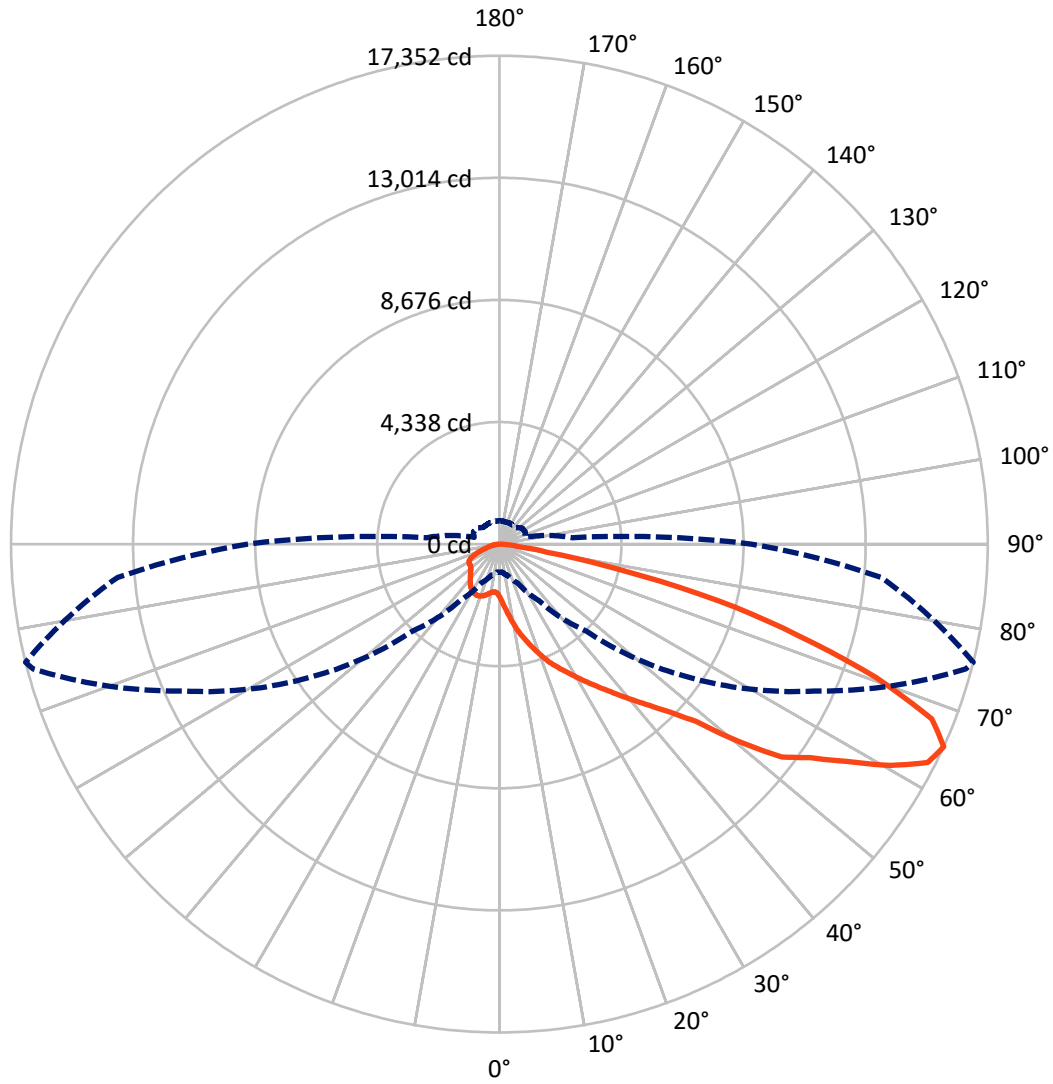
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3308.5	0.0	3308.5
	% Fixture	16.7	0.0	16.7
<b>Street Side</b>	Lumens	16485.1	0.0	16485.1
	% Fixture	83.3	0.0	83.3
<b>Total</b>	Lumens	19793.6	0.0	19793.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	222.7	1.1
10°-20°	848.2	4.3
20°-30°	1653.0	8.4
30°-40°	2764.6	14.0
40°-50°	3958.3	20.0
50°-60°	4686.1	23.7
60°-70°	3896.5	19.7
70°-80°	1594.5	8.1
80°-90°	169.8	0.9
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°	19793.6	100.0
0°-180°	19793.6	100.0

**Coefficient of Utilization**



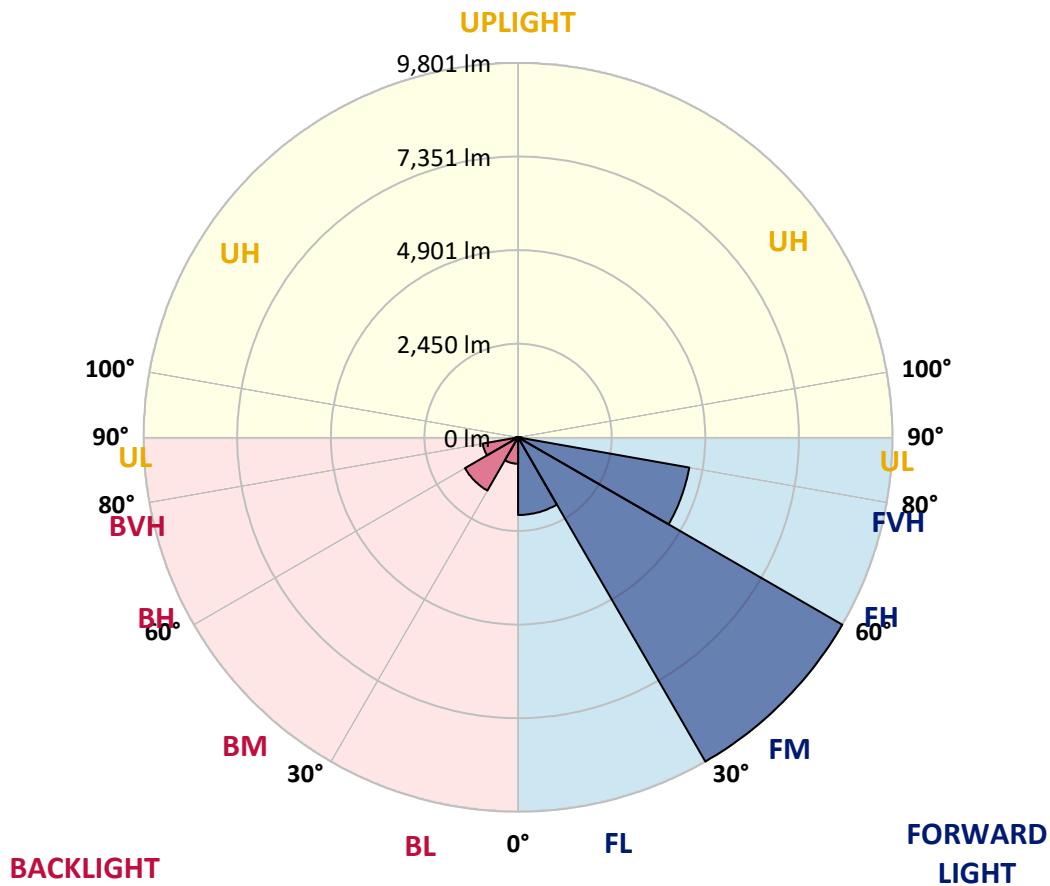
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2031.7	10.3			
FM (30°-60°)	9801.0	49.5			
FH (60°-80°)	4551.0	23.0			G2/5000
FVH (80°-90°)	101.2	0.5			G2/225
BL (0°-30°)	692.1	3.5	B2/1000		
BM (30°-60°)	1607.9	8.1	B2/2500		
BH (60°-80°)	940.0	4.7	B2/1000		G2/1000
BVH (80°-90°)	68.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1874.4	1874.4	1874.4	1874.4	1874.4	1874.4	1874.4	1874.4	1874.4	1874.4	1874.4
2.5°	2627.2	2636.9	2604.9	2593.8	2518.7	2417.1	2332.2	2204.2	2085.9	2067.8	1962.0
5°	3336.9	3295.1	3258.9	3235.3	3130.9	3015.4	2835.9	2595.2	2343.3	2312.7	2084.5
7.5°	3758.5	3751.5	3707.0	3693.1	3612.4	3496.9	3311.8	3012.6	2646.7	2596.6	2250.1
10°	4096.6	4092.5	4070.2	4082.7	4009.0	3896.3	3716.8	3407.8	2979.2	2929.2	2435.2
12.5°	4391.6	4398.6	4394.4	4440.3	4402.8	4315.1	4128.6	3789.1	3311.8	3257.6	2660.6
15°	4607.3	4612.9	4633.8	4734.0	4754.8	4736.7	4547.5	4163.4	3640.2	3562.3	2893.0
17.5°	4668.6	4679.7	4729.8	4891.2	5003.9	5079.1	4938.5	4544.7	3963.1	3878.2	3129.5
20°	4750.7	4763.2	4813.3	4981.7	5147.2	5318.4	5293.4	4931.6	4288.7	4219.1	3368.9
22.5°	5130.5	5120.8	5098.5	5179.2	5297.5	5510.4	5573.0	5303.1	4625.4	4558.6	3633.3
25°	5862.5	5844.4	5702.5	5628.7	5589.7	5719.2	5830.5	5641.2	4953.8	4853.6	3879.6
27.5°	6669.6	6659.8	6478.9	6303.6	6064.3	6008.6	6074.0	5936.2	5272.5	5170.9	4093.9
30°	7433.5	7404.3	7215.0	6995.2	6675.1	6435.8	6339.8	6225.7	5621.8	5516.0	4344.3
32.5°	8116.8	8079.2	7856.5	7613.0	7277.7	6995.2	6708.5	6533.2	6016.9	5894.5	4600.4
35°	8677.5	8640.0	8411.8	8152.9	7784.2	7575.4	7183.0	6867.2	6419.1	6295.2	4902.3
37.5°	9111.7	9076.9	8839.0	8584.3	8262.9	8097.3	7756.3	7242.9	6882.5	6753.1	5222.4
40°	9355.2	9330.2	9139.5	8937.7	8667.8	8524.5	8371.4	7717.4	7401.5	7272.1	5599.5
42.5°	9429.0	9412.3	9278.7	9174.3	8992.0	8883.5	8971.1	8275.4	7955.3	7842.6	6023.9
45°	9243.9	9243.9	9204.9	9257.8	9266.1	9264.8	9572.3	8905.7	8635.8	8511.9	6622.3
47.5°	8770.8	8801.4	8858.4	9118.6	9392.8	9622.4	10275.0	9746.2	9511.1	9409.5	7469.7
50°	7905.2	7988.7	8183.5	8691.4	9274.5	9858.9	10940.1	10988.9	11212.9	11033.4	8716.5
52.5°	6637.6	6625.0	7121.8	7845.4	8734.6	9868.7	11306.1	12085.4	12687.9	12564.1	9643.3
55°	5275.3	5254.4	5717.8	6715.5	7906.6	9495.7	11526.0	12587.7	13506.1	13394.8	10476.8
57.5°	4039.6	4013.2	4425.0	5325.4	6737.8	8704.0	11484.2	13186.1	14631.9	14574.8	11609.5
60°	2780.3	2748.3	3133.7	3921.3	5354.6	7493.3	11022.2	13493.6	15949.6	15969.1	12821.5
62.5°	1669.8	1651.7	1931.4	2542.3	3851.7	5993.3	9941.0	13307.1	16998.8	17086.5	13600.7
65°	1007.5	994.9	1159.1	1516.8	2443.5	4373.6	8274.0	12353.9	17150.5	17352.3	13618.8
67.5°	733.3	734.7	782.0	924.0	1424.9	2824.8	6209.0	10645.1	16360.1	16568.9	12760.3
70°	637.3	640.1	665.1	697.2	861.4	1616.9	4036.8	8403.4	14023.8	14185.2	10702.2
72.5°	566.3	566.3	583.0	599.7	673.5	985.2	2162.4	5873.6	11068.2	11111.3	8168.2
75°	498.2	494.0	502.3	510.7	584.4	688.8	1052.0	4092.5	8175.2	8075.0	5279.4
77.5°	396.6	392.4	393.8	402.1	468.9	492.6	533.0	2556.2	4607.3	4348.5	2332.2
80°	282.5	279.7	295.0	315.9	346.5	302.0	334.0	1237.1	1827.1	1700.4	904.5
82.5°	168.4	173.9	197.6	214.3	239.3	189.2	215.7	413.3	647.1	630.4	367.4
85°	23.7	25.0	71.0	82.1	103.0	73.8	114.1	186.5	258.8	276.9	129.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	9.7	33.4	73.8	75.1	32.0
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°	1874.4	1874.4	1874.4	1874.4	1874.4	1874.4	1874.4	1874.4	1874.4	1874.4	1874.4
2.5°	1907.8	1842.4	1749.1	1671.2	1605.8	1552.9	1508.4	1475.0	1465.3	1451.4	1451.4
5°	1977.4	1859.1	1692.1	1573.8	1505.6	1465.3	1437.4	1423.5	1416.6	1408.2	1404.0
7.5°	2073.4	1907.8	1682.4	1562.7	1509.8	1484.8	1466.7	1458.3	1452.7	1444.4	1444.4
10°	2205.6	1980.1	1713.0	1601.6	1559.9	1534.8	1514.0	1500.1	1487.5	1475.0	1472.2
12.5°	2348.9	2074.8	1768.6	1654.5	1610.0	1579.4	1550.2	1529.3	1514.0	1498.7	1494.5
15°	2507.5	2172.2	1828.5	1706.0	1650.3	1608.6	1573.8	1541.8	1520.9	1498.7	1495.9
17.5°	2663.4	2271.0	1878.6	1740.8	1669.8	1618.3	1568.2	1526.5	1500.1	1475.0	1468.1
20°	2849.8	2369.8	1913.3	1750.5	1665.7	1597.5	1537.6	1484.8	1455.5	1426.3	1422.1
22.5°	3021.0	2461.6	1930.0	1736.6	1633.6	1552.9	1483.4	1426.3	1394.3	1365.1	1359.5
25°	3186.6	2542.3	1923.1	1703.2	1584.9	1491.7	1419.4	1362.3	1331.7	1301.1	1292.7
27.5°	3346.6	2596.6	1895.3	1651.7	1523.7	1423.5	1354.0	1302.5	1276.0	1249.6	1238.5
30°	3503.9	2646.7	1852.1	1584.9	1445.8	1352.6	1295.5	1259.3	1232.9	1205.1	1196.7
32.5°	3662.5	2682.9	1786.7	1507.0	1366.5	1289.9	1255.2	1228.7	1200.9	1173.1	1164.7
35°	3822.5	2698.2	1707.4	1418.0	1299.7	1249.6	1237.1	1206.4	1168.9	1135.5	1124.4
37.5°	4013.2	2712.1	1608.6	1330.3	1241.2	1230.1	1227.3	1181.4	1136.9	1091.0	1078.4
40°	4242.8	2730.2	1507.0	1251.0	1193.9	1223.1	1212.0	1149.4	1060.3	1015.8	1001.9
42.5°	4523.8	2763.6	1401.3	1178.6	1159.1	1196.7	1184.2	1071.5	1011.6	986.6	979.6
45°	4937.1	2886.0	1295.5	1121.6	1132.7	1159.1	1139.7	1025.6	1001.9	985.2	976.8
47.5°	5673.2	3073.9	1203.7	1078.4	1111.8	1125.7	1050.6	1013.0	994.9	972.7	962.9
50°	6438.6	3156.0	1129.9	1052.0	1088.2	1095.1	1001.9	996.3	983.8	960.2	950.4
52.5°	6956.2	3144.8	1085.4	1042.3	1068.7	1042.3	979.6	978.2	969.9	942.1	930.9
55°	7540.7	3164.3	1065.9	1045.0	1060.3	953.2	951.8	956.0	951.8	921.2	915.6
57.5°	8329.7	3224.2	1056.2	1054.8	1054.8	910.1	925.4	930.9	922.6	908.7	904.5
60°	9088.0	3228.3	1038.1	1065.9	1050.6	883.6	894.7	900.3	890.6	887.8	886.4
62.5°	9373.3	3028.0	997.7	1057.6	1033.9	854.4	862.7	865.5	855.8	862.7	861.4
65°	8948.9	2602.1	930.9	1017.2	982.4	828.0	822.4	829.3	812.6	830.7	832.1
67.5°	7945.6	2067.8	829.3	940.7	910.1	798.7	787.6	787.6	759.8	787.6	786.2
70°	6406.6	1461.1	680.5	818.2	830.7	763.9	758.4	726.4	681.8	723.6	719.4
72.5°	4856.4	1049.2	535.7	647.1	715.2	715.2	716.6	662.4	610.9	630.4	613.7
75°	3076.7	738.9	428.6	495.4	560.8	627.6	659.6	559.4	513.5	505.1	496.8
77.5°	1386.0	485.6	334.0	379.9	398.0	495.4	602.5	481.5	418.8	400.8	395.2
80°	580.3	302.0	238.0	268.6	244.9	416.1	531.6	374.3	307.5	282.5	264.4
82.5°	254.6	179.5	151.7	144.7	153.1	308.9	396.6	249.1	192.0	260.2	263.0
85°	107.1	94.6	77.9	71.0	62.6	118.3	186.5	97.4	119.7	68.2	55.7
87.5°	25.0	27.8	20.9	13.9	8.3	1.4	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)