

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: P632347

Luminaire Tested: GWS-SA2C-740-U-T4W-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632347  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2C-740-U-T4W-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

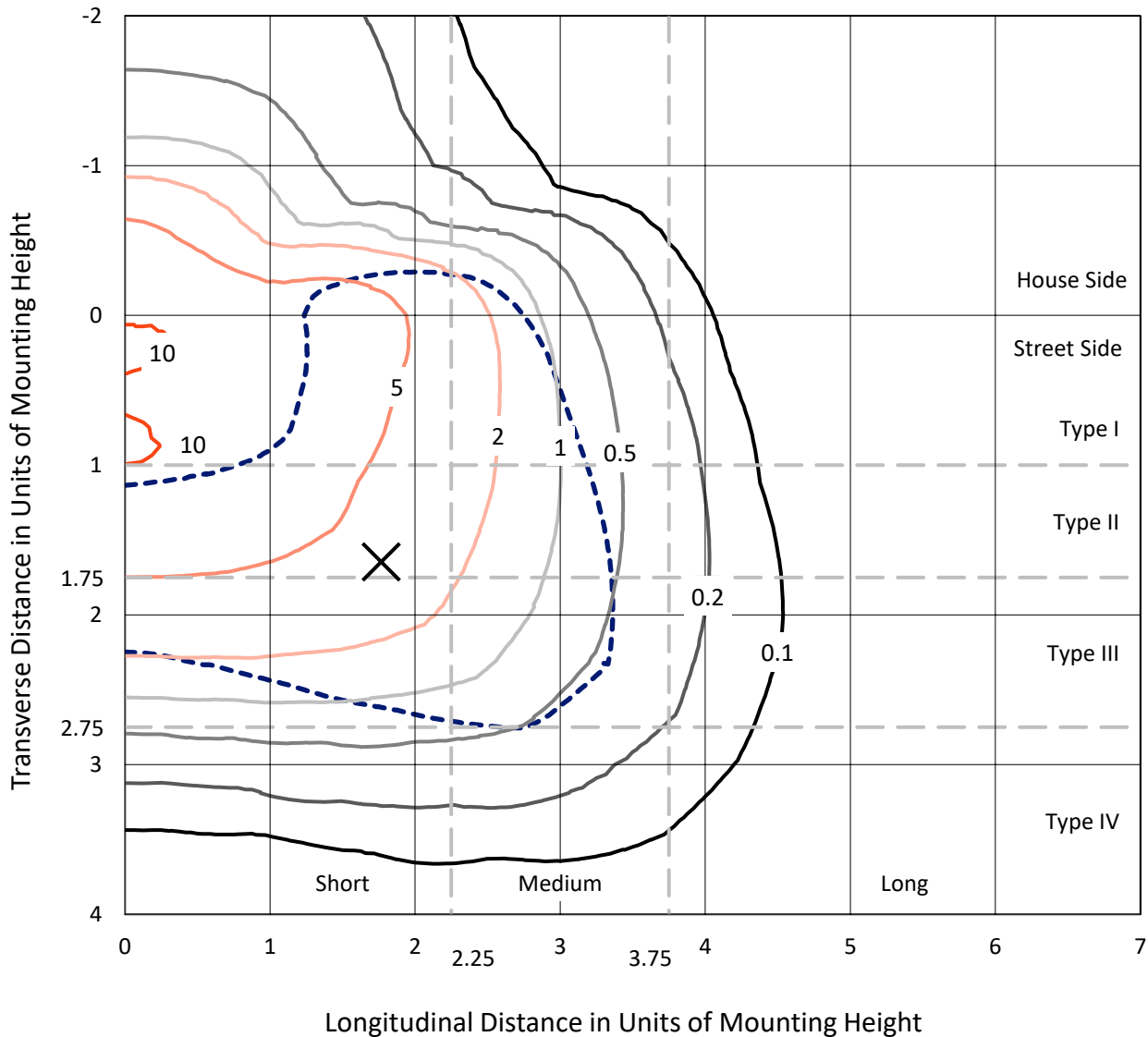
Lumens per Lamp: N/A  
Luminaire Lumens: 9176 lumens  
Efficiency: N/A  
Efficacy: 145.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 63.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

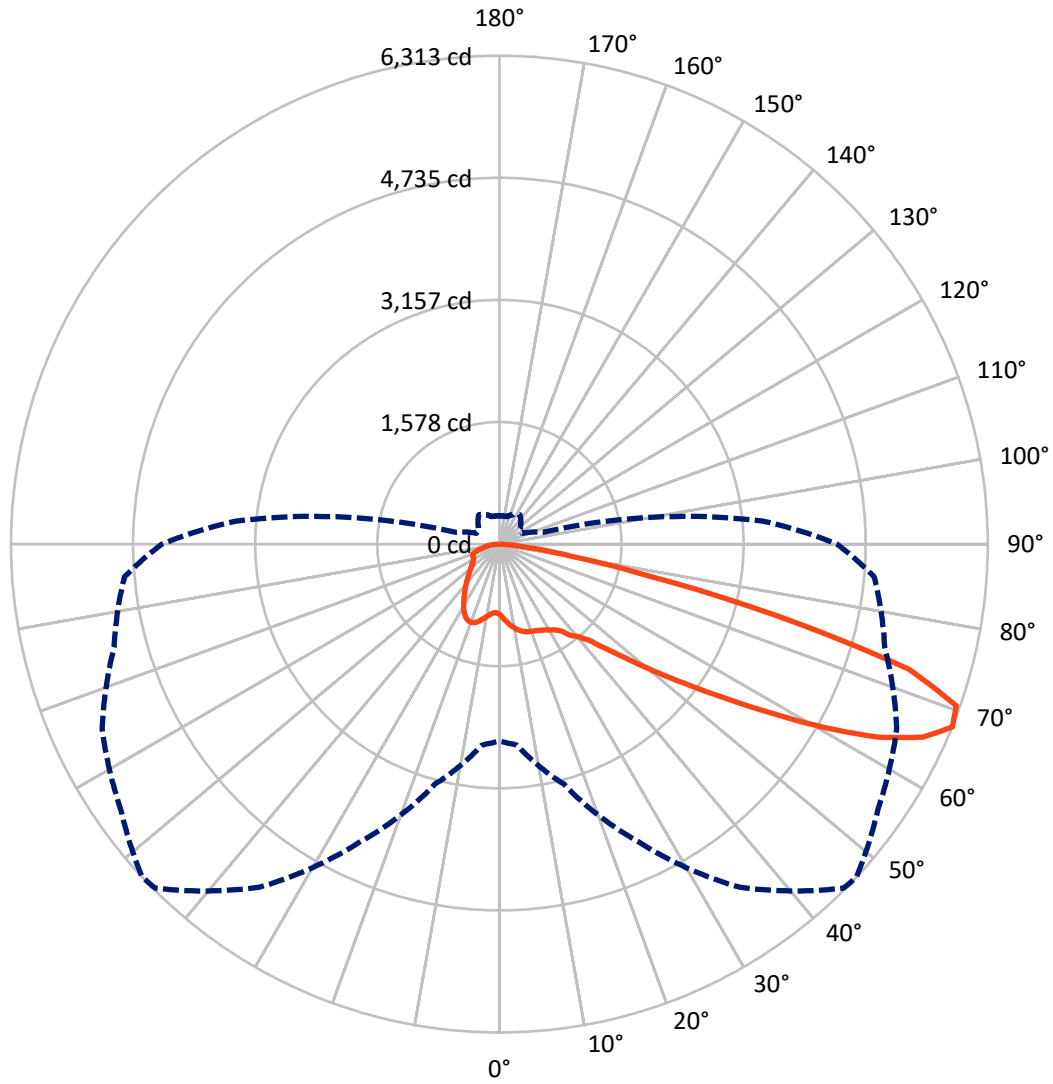
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2091.3	0.0	2091.3
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	7084.7	0.0	7084.7
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	9176.0	0.0	9176.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.0	1.0
10°-20°	309.7	3.4
20°-30°	526.5	5.7
30°-40°	771.2	8.4
40°-50°	1175.0	12.8
50°-60°	2102.3	22.9
60°-70°	2805.4	30.6
70°-80°	1268.6	13.8
80°-90°	124.3	1.4
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°	9176.0	100.0
0°-180°	9176.0	100.0

**Coefficient of Utilization**



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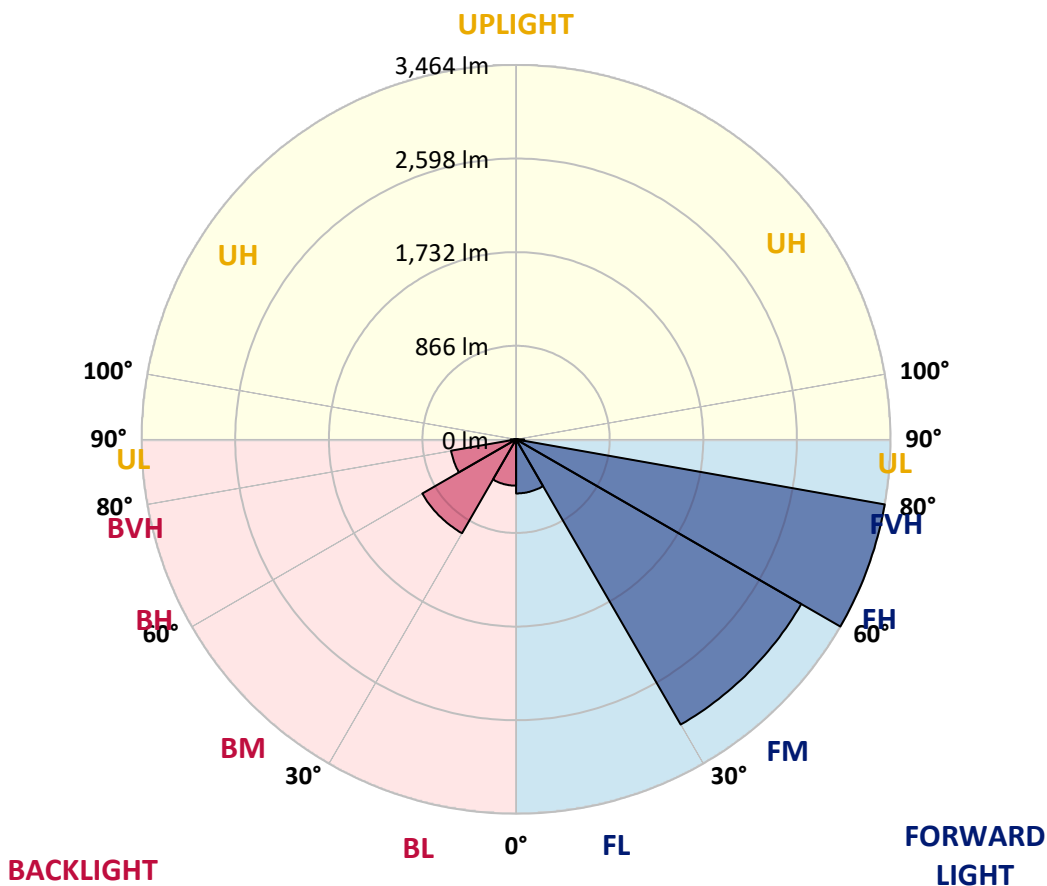
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	500.4	5.5			
FM (30°-60°)	3046.5	33.2			
FH (60°-80°)	3463.8	37.7			G2/5000
FVH (80°-90°)	73.9	0.8			G1/100
BL (0°-30°)	428.7	4.7	B1/500		
BM (30°-60°)	1002.0	10.9	B2/2500		
BH (60°-80°)	610.2	6.6	B2/1000		G2/1000
BVH (80°-90°)	50.4	0.5			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	909.6	909.6	909.6	909.6	909.6	909.6	909.6	909.6	909.6	909.6	909.6
2.5°	970.0	973.3	972.7	967.4	964.0	958.1	958.7	949.4	935.5	926.2	915.6
5°	1055.6	1060.9	1054.3	1045.6	1032.4	1013.1	1011.1	989.9	963.4	944.8	925.6
7.5°	1129.9	1133.2	1125.3	1110.7	1091.4	1065.5	1060.9	1035.7	1002.5	973.3	945.5
10°	1187.6	1191.6	1181.0	1161.8	1136.5	1110.7	1107.3	1081.5	1046.3	1011.8	976.6
12.5°	1236.7	1238.1	1226.8	1200.9	1173.7	1147.2	1143.8	1120.0	1087.4	1052.3	1013.8
15°	1265.3	1265.9	1252.0	1223.5	1197.6	1174.4	1172.4	1151.8	1121.9	1088.8	1047.6
17.5°	1263.3	1264.6	1254.6	1229.4	1206.9	1192.9	1190.9	1177.7	1154.5	1124.6	1083.5
20°	1238.7	1240.0	1233.4	1216.8	1204.9	1200.9	1201.6	1197.6	1183.6	1159.1	1117.3
22.5°	1219.5	1221.5	1215.5	1203.6	1202.2	1211.5	1213.5	1215.5	1208.9	1187.0	1146.5
25°	1228.8	1232.1	1222.8	1206.2	1208.9	1229.4	1233.4	1240.0	1234.7	1216.2	1181.0
27.5°	1293.1	1295.1	1271.2	1237.4	1229.4	1251.3	1257.3	1267.9	1263.9	1246.7	1219.5
30°	1442.4	1441.1	1390.0	1307.1	1273.9	1282.5	1287.2	1302.4	1303.7	1292.5	1266.6
32.5°	1652.7	1646.1	1567.1	1435.1	1338.9	1317.7	1323.0	1343.5	1358.8	1346.9	1311.7
35°	1875.0	1869.0	1782.1	1627.5	1459.0	1385.3	1379.4	1395.3	1418.5	1385.3	1334.9
37.5°	2086.6	2077.4	1988.5	1797.4	1607.0	1504.1	1495.5	1479.6	1465.6	1401.9	1363.5
40°	2321.5	2310.9	2233.3	2017.0	1770.2	1595.0	1573.1	1510.1	1497.5	1457.0	1437.8
42.5°	2572.3	2572.3	2508.0	2295.0	1967.2	1725.0	1696.5	1601.6	1614.9	1588.4	1565.8
45°	2823.1	2830.4	2779.3	2575.0	2230.6	1970.5	1924.8	1790.1	1821.9	1810.0	1798.7
47.5°	3036.8	3050.7	3040.7	2860.9	2553.1	2269.1	2199.4	2059.4	2127.8	2156.3	2188.2
50°	3267.0	3282.2	3272.3	3201.3	2930.6	2630.7	2568.3	2423.7	2541.1	2626.7	2730.9
52.5°	3608.7	3630.6	3547.6	3520.4	3389.1	3041.4	2985.7	2821.1	3034.1	3176.1	3408.3
55°	3897.3	3896.6	3867.4	3929.8	3881.4	3543.7	3481.9	3332.7	3604.7	3755.3	4095.0
57.5°	4031.3	4047.2	4147.4	4323.9	4420.8	4157.4	4098.3	3945.7	4217.1	4295.4	4662.3
60°	4100.3	4120.2	4314.0	4662.9	4923.7	4827.5	4804.3	4609.9	4762.5	4753.2	5140.6
62.5°	4003.4	4043.3	4354.4	4818.2	5282.6	5500.9	5493.6	5199.7	5226.2	5135.3	5437.2
65°	3558.9	3602.0	4090.4	4740.6	5487.6	6013.1	6015.1	5733.8	5582.5	5321.1	5387.5
67.5°	2545.1	2606.8	3210.6	4241.6	5415.3	6289.8	6313.0	5976.0	5666.1	5156.6	4864.6
70°	1387.3	1432.5	1905.5	3083.2	4763.8	6223.4	6266.6	5859.2	5297.2	4460.6	3744.7
72.5°	630.3	644.9	886.4	1691.9	3254.4	5356.9	5537.4	5228.9	4350.4	3294.8	2381.2
75°	288.6	295.2	386.1	809.4	1700.5	3584.8	3711.5	3894.6	3027.5	2080.7	1241.4
77.5°	181.1	183.1	219.6	370.2	847.9	1789.4	1922.8	2318.9	1772.8	1029.7	518.8
80°	106.8	108.8	136.7	200.4	398.1	818.7	945.5	916.9	833.3	444.5	236.2
82.5°	53.7	55.7	79.0	114.1	217.0	325.8	383.5	385.5	310.5	240.8	133.4
85°	19.2	19.9	25.9	45.1	92.2	107.5	120.1	146.6	151.9	140.0	64.4
87.5°	0.0	0.0	0.7	1.3	2.7	10.6	11.3	21.2	44.5	49.8	25.9
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°	909.6	909.6	909.6	909.6	909.6	909.6	909.6	909.6	909.6	909.6	909.6
2.5°	912.3	902.3	899.0	895.7	890.4	888.4	884.4	880.4	880.4	876.5	874.5
5°	916.9	903.7	895.0	891.1	887.7	889.7	889.7	891.1	895.7	893.0	894.4
7.5°	933.5	918.3	906.3	903.0	903.0	911.0	916.3	922.9	931.5	932.9	932.9
10°	962.7	944.8	932.2	930.2	933.5	944.8	952.8	960.7	971.3	972.0	973.3
12.5°	994.6	976.6	964.0	966.7	970.0	984.6	993.2	999.9	1010.5	1010.5	1009.8
15°	1027.7	1007.8	997.2	1002.5	1012.5	1029.1	1030.4	1031.0	1036.4	1035.0	1034.4
17.5°	1062.2	1041.0	1033.0	1041.0	1051.6	1059.6	1052.9	1043.7	1041.7	1039.0	1037.7
20°	1096.1	1074.2	1070.9	1076.8	1080.1	1073.5	1052.9	1035.7	1027.7	1023.8	1022.4
22.5°	1125.3	1106.7	1104.7	1104.7	1088.1	1064.9	1034.4	1011.1	1000.5	995.2	993.9
25°	1159.8	1142.5	1139.2	1121.3	1078.8	1036.4	995.2	974.0	965.4	962.7	963.4
27.5°	1200.2	1188.3	1177.7	1126.6	1052.3	985.9	939.5	930.2	926.9	930.2	932.2
30°	1250.0	1238.1	1214.2	1120.0	1009.8	920.2	875.8	875.1	885.1	893.7	895.0
32.5°	1290.5	1285.2	1246.0	1098.7	950.1	847.9	810.1	812.8	830.7	842.6	844.6
35°	1322.3	1330.9	1272.6	1063.6	879.1	779.6	749.7	751.1	761.0	777.6	778.3
37.5°	1367.4	1396.6	1296.4	1009.8	797.5	720.5	693.3	683.4	682.1	686.7	688.0
40°	1458.3	1502.1	1313.7	931.5	718.5	667.5	636.9	617.7	601.1	588.5	584.5
42.5°	1595.7	1646.1	1323.6	836.6	648.2	615.0	580.5	556.0	526.8	500.3	491.0
45°	1847.8	1864.4	1323.6	735.8	585.9	565.9	531.4	502.3	465.1	433.9	427.3
47.5°	2251.2	2198.1	1325.0	638.3	530.8	522.8	493.0	459.8	418.7	392.8	388.8
50°	2858.9	2672.5	1352.2	557.3	485.0	486.3	464.4	427.9	390.8	371.5	368.2
52.5°	3547.6	3257.0	1425.2	497.6	446.5	456.5	444.5	409.4	376.2	359.6	356.3
55°	4195.2	3794.4	1487.5	455.1	414.0	431.3	430.6	398.1	368.2	351.6	349.7
57.5°	4745.9	4162.7	1478.2	420.6	386.1	408.0	418.0	390.8	362.9	349.0	347.0
60°	5088.2	4357.7	1346.2	388.8	364.9	391.5	410.7	388.8	365.6	362.3	362.9
62.5°	5236.9	4321.9	1092.8	364.9	351.0	383.5	418.7	402.7	390.1	398.1	402.7
65°	5006.0	4014.1	804.1	347.0	337.7	385.5	437.2	424.6	390.1	395.4	397.4
67.5°	4365.0	3416.9	581.2	329.1	321.1	391.5	463.8	421.3	367.6	367.6	363.6
70°	3145.6	2457.5	422.0	311.2	304.5	382.8	465.1	398.8	341.7	339.7	329.7
72.5°	1892.9	1449.7	329.1	291.3	279.3	339.7	435.9	372.2	316.5	299.9	288.0
75°	983.3	726.5	276.0	269.4	239.5	288.0	398.8	331.1	270.7	256.1	249.5
77.5°	421.3	339.7	236.9	240.2	199.0	242.2	321.8	286.6	240.2	221.6	215.6
80°	207.7	193.1	187.1	192.4	159.2	187.1	277.3	250.8	203.7	182.5	173.8
82.5°	118.8	112.8	134.7	136.7	113.5	156.6	234.2	212.3	168.5	145.3	131.4
85°	55.1	59.0	81.6	82.3	70.3	107.5	153.3	119.4	89.6	74.3	71.0
87.5°	21.9	25.9	35.8	35.2	20.6	19.9	13.3	7.3	6.0	5.3	4.6
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)