

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: P632402

Luminaire Tested: GWS-SA2C-750-U-T4W-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632402  
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-750-U-T4W-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

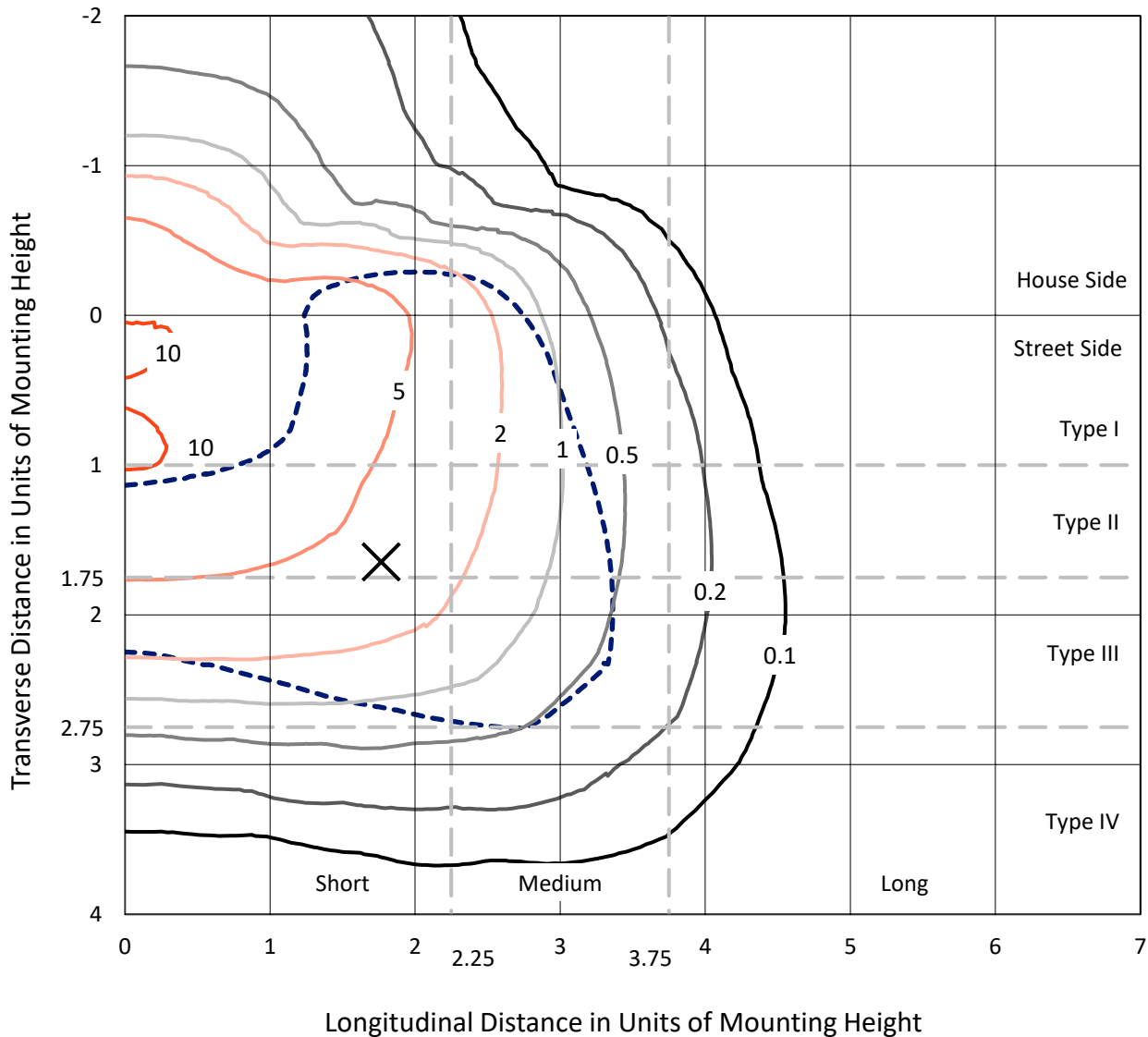
Lumens per Lamp: N/A  
Luminaire Lumens: 9386.3 lumens  
Efficiency: N/A  
Efficacy: 148.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 63.2  
Input Voltage (V): 120  
Input Current (Ain): 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

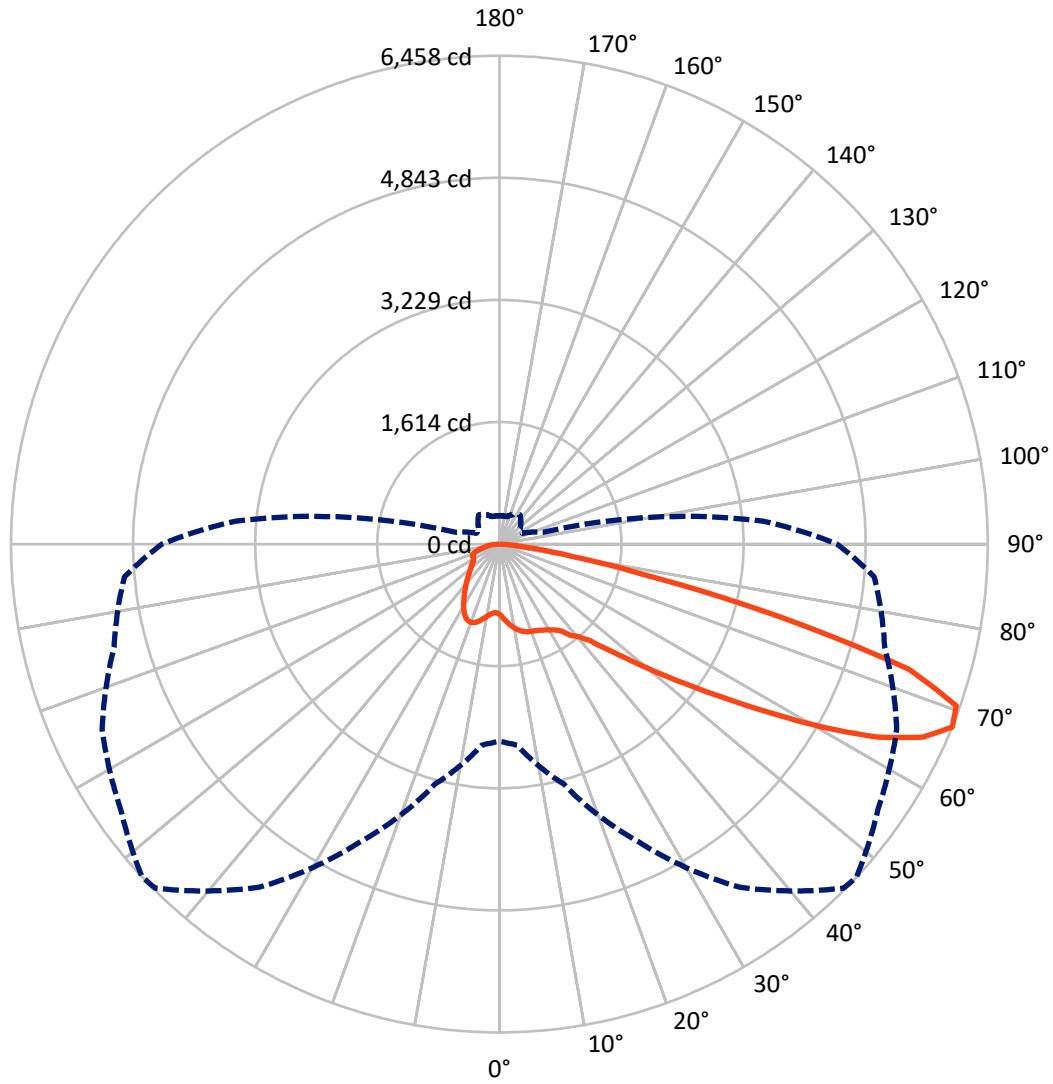
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.7 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	2139.2	0.0	2139.2
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	7247.1	0.0	7247.1
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	9386.3	0.0	9386.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.1	1.0
10°-20°	316.8	3.4
20°-30°	538.5	5.7
30°-40°	788.9	8.4
40°-50°	1201.9	12.8
50°-60°	2150.5	22.9
60°-70°	2869.7	30.6
70°-80°	1297.7	13.8
80°-90°	127.1	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°	9386.3	100.0
0°-180°	9386.3	100.0

**Coefficient of Utilization**



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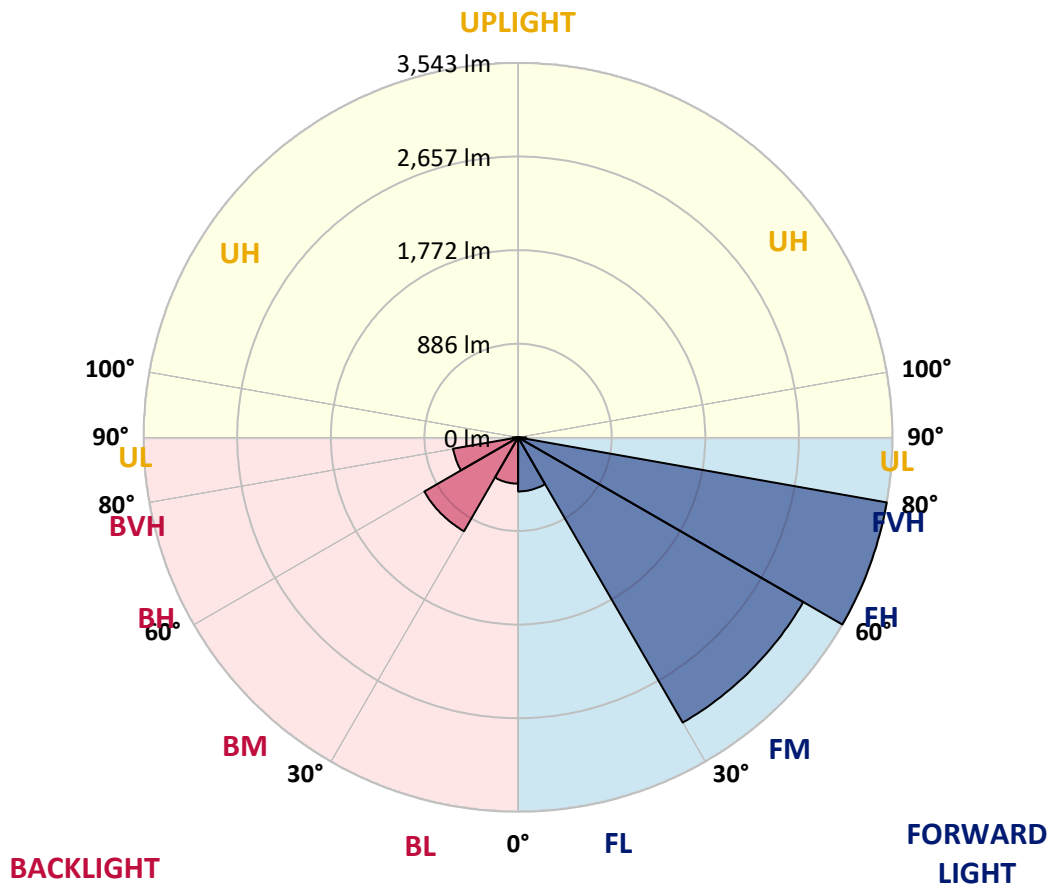
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	511.9	5.5			
FM (30°-60°)	3116.3	33.2			
FH (60°-80°)	3543.2	37.7			G2/5000
FVH (80°-90°)	75.6	0.8			G1/100
BL (0°-30°)	438.5	4.7	B1/500		
BM (30°-60°)	1025.0	10.9	B2/2500		
BH (60°-80°)	624.2	6.6	B2/1000		G2/1000
BVH (80°-90°)	51.5	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°	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5
2.5°	992.2	995.6	995.0	989.5	986.1	980.0	980.7	971.2	956.9	947.4	936.6
5°	1079.8	1085.2	1078.4	1069.6	1056.0	1036.4	1034.3	1012.6	985.5	966.4	946.8
7.5°	1155.8	1159.2	1151.1	1136.1	1116.4	1090.0	1085.2	1059.4	1025.5	995.6	967.1
10°	1214.8	1218.9	1208.1	1188.4	1162.6	1136.1	1132.7	1106.3	1070.3	1035.0	999.0
12.5°	1265.1	1266.4	1254.9	1228.4	1200.6	1173.4	1170.1	1145.6	1112.4	1076.4	1037.0
15°	1294.3	1294.9	1280.7	1251.5	1225.0	1201.3	1199.2	1178.2	1147.7	1113.7	1071.6
17.5°	1292.2	1293.6	1283.4	1257.6	1234.5	1220.3	1218.2	1204.7	1180.9	1150.4	1108.3
20°	1267.1	1268.5	1261.7	1244.7	1232.5	1228.4	1229.1	1225.0	1210.8	1185.7	1142.9
22.5°	1247.4	1249.5	1243.4	1231.1	1229.8	1239.3	1241.3	1243.4	1236.6	1214.2	1172.8
25°	1256.9	1260.3	1250.8	1233.9	1236.6	1257.6	1261.7	1268.5	1263.0	1244.0	1208.1
27.5°	1322.8	1324.8	1300.4	1265.8	1257.6	1280.0	1286.1	1297.0	1292.9	1275.3	1247.4
30°	1475.5	1474.1	1421.8	1337.0	1303.1	1311.9	1316.7	1332.3	1333.6	1322.1	1295.6
32.5°	1690.6	1683.8	1603.1	1468.0	1369.6	1347.9	1353.3	1374.3	1390.0	1377.7	1341.8
35°	1918.0	1911.9	1823.0	1664.8	1492.4	1417.1	1411.0	1427.3	1451.0	1417.1	1365.5
37.5°	2134.5	2125.0	2034.0	1838.6	1643.8	1538.6	1529.8	1513.5	1499.2	1434.1	1394.7
40°	2374.7	2363.9	2284.5	2063.2	1810.7	1631.6	1609.2	1544.7	1531.8	1490.4	1470.7
42.5°	2631.3	2631.3	2565.4	2347.6	2012.3	1764.6	1735.4	1638.3	1651.9	1624.8	1601.7
45°	2887.8	2895.3	2843.0	2634.0	2281.7	2015.7	1968.9	1831.1	1863.7	1851.5	1839.9
47.5°	3106.3	3120.6	3110.4	2926.5	2611.6	2321.1	2249.8	2106.6	2176.5	2205.7	2238.3
50°	3341.9	3357.5	3347.3	3274.7	2997.8	2691.0	2627.2	2479.2	2599.4	2686.9	2793.5
52.5°	3691.4	3713.8	3628.9	3601.1	3466.7	3111.1	3054.1	2885.8	3103.6	3248.9	3486.4
55°	3986.6	3985.9	3956.1	4019.9	3970.3	3624.9	3561.7	3409.0	3687.3	3841.4	4188.9
57.5°	4123.7	4140.0	4242.5	4423.0	4522.1	4252.7	4192.2	4036.1	4313.7	4393.8	4769.1
60°	4194.3	4214.6	4412.8	4769.8	5036.5	4938.1	4914.4	4715.5	4871.6	4862.1	5258.5
62.5°	4095.2	4135.9	4454.2	4928.6	5403.7	5627.0	5619.5	5318.9	5346.0	5253.0	5561.8
65°	3640.5	3684.6	4184.1	4849.2	5613.4	6150.9	6153.0	5865.2	5710.5	5443.1	5510.9
67.5°	2603.4	2666.6	3284.2	4338.8	5539.4	6433.9	6457.7	6112.9	5796.0	5274.8	4976.1
70°	1419.1	1465.3	1949.2	3153.9	4873.0	6366.1	6410.2	5993.5	5418.6	4562.8	3830.5
72.5°	644.8	659.7	906.7	1730.7	3329.0	5479.7	5664.3	5348.7	4450.1	3370.4	2435.8
75°	295.2	302.0	395.0	828.0	1739.5	3666.9	3796.6	3983.9	3096.8	2128.4	1269.8
77.5°	185.3	187.3	224.6	378.7	867.4	1830.4	1966.8	2372.0	1813.5	1053.3	530.7
80°	109.3	111.3	139.8	205.0	407.2	837.5	967.1	937.9	852.4	454.7	241.6
82.5°	55.0	57.0	80.8	116.7	221.9	333.2	392.3	394.3	317.6	246.4	136.4
85°	19.7	20.4	26.5	46.2	94.3	109.9	122.8	150.0	155.4	143.2	65.8
87.5°	0.0	0.0	0.7	1.4	2.7	10.9	11.5	21.7	45.5	50.9	26.5
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°	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5
2.5°	933.2	923.0	919.6	916.2	910.8	908.8	904.7	900.6	900.6	896.5	894.5
5°	937.9	924.4	915.5	911.5	908.1	910.1	910.1	911.5	916.2	913.5	914.9
7.5°	954.9	939.3	927.1	923.7	923.7	931.8	937.3	944.1	952.9	954.2	954.2
10°	984.8	966.4	953.6	951.5	954.9	966.4	974.6	982.7	993.6	994.3	995.6
12.5°	1017.4	999.0	986.1	988.8	992.2	1007.2	1016.0	1022.8	1033.6	1033.6	1033.0
15°	1051.3	1030.9	1020.1	1025.5	1035.7	1052.6	1054.0	1054.7	1060.1	1058.8	1058.1
17.5°	1086.6	1064.9	1056.7	1064.9	1075.7	1083.9	1077.1	1067.6	1065.5	1062.8	1061.5
20°	1121.2	1098.8	1095.4	1101.5	1104.9	1098.1	1077.1	1059.4	1051.3	1047.2	1045.9
22.5°	1151.1	1132.0	1130.0	1130.0	1113.0	1089.3	1058.1	1034.3	1023.5	1018.0	1016.7
25°	1186.3	1168.7	1165.3	1147.0	1103.5	1060.1	1018.0	996.3	987.5	984.8	985.5
27.5°	1227.7	1215.5	1204.7	1152.4	1076.4	1008.5	961.0	951.5	948.1	951.5	953.6
30°	1278.6	1266.4	1242.0	1145.6	1033.0	941.3	895.9	895.2	905.4	914.2	915.5
32.5°	1320.0	1314.6	1274.6	1123.9	971.9	867.4	828.7	831.4	849.7	861.9	864.0
35°	1352.6	1361.4	1301.7	1087.9	899.3	797.5	766.9	768.3	778.5	795.4	796.1
37.5°	1398.8	1428.6	1326.2	1033.0	815.8	737.1	709.2	699.0	697.7	702.4	703.8
40°	1491.8	1536.5	1343.8	952.9	735.0	682.8	651.5	631.9	614.9	602.0	597.9
42.5°	1632.2	1683.8	1354.0	855.8	663.1	629.1	593.9	568.7	538.9	511.7	502.2
45°	1890.1	1907.1	1354.0	752.7	599.3	578.9	543.6	513.8	475.8	443.9	437.1
47.5°	2302.8	2248.5	1355.3	652.9	542.9	534.8	504.3	470.3	428.3	401.8	397.7
50°	2924.5	2733.7	1383.2	570.1	496.1	497.5	475.1	437.8	399.7	380.1	376.7
52.5°	3628.9	3331.7	1457.8	509.0	456.8	466.9	454.7	418.7	384.8	367.8	364.5
55°	4291.3	3881.4	1521.6	465.6	423.5	441.1	440.5	407.2	376.7	359.7	357.7
57.5°	4854.6	4258.1	1512.1	430.3	395.0	417.4	427.6	399.7	371.2	357.0	355.0
60°	5204.8	4457.6	1377.1	397.7	373.3	400.4	420.1	397.7	374.0	370.6	371.2
62.5°	5356.9	4421.0	1117.8	373.3	359.0	392.3	428.3	412.0	399.1	407.2	412.0
65°	5120.7	4106.1	822.6	355.0	345.5	394.3	447.3	434.4	399.1	404.5	406.5
67.5°	4465.1	3495.2	594.5	336.6	328.5	400.4	474.4	431.0	376.0	376.0	371.9
70°	3217.7	2513.9	431.6	318.3	311.5	391.6	475.8	407.9	349.5	347.5	337.3
72.5°	1936.3	1482.9	336.6	297.9	285.7	347.5	445.9	380.7	323.7	306.8	294.5
75°	1005.8	743.2	282.3	275.5	245.0	294.5	407.9	338.7	276.9	262.0	255.2
77.5°	431.0	347.5	242.3	245.7	203.6	247.7	329.2	293.2	245.7	226.7	220.6
80°	212.4	197.5	191.4	196.8	162.9	191.4	283.7	256.5	208.4	186.6	177.8
82.5°	121.5	115.4	137.8	139.8	116.1	160.2	239.6	217.2	172.4	148.6	134.4
85°	56.3	60.4	83.5	84.2	71.9	109.9	156.8	122.2	91.6	76.0	72.6
87.5°	22.4	26.5	36.6	36.0	21.0	20.4	13.6	7.5	6.1	5.4	4.8
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)