

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: P633325

Luminaire Tested: GWS-SA2E-740-U-T2R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633325  
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-SA2E-740-U-T2R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14878.2 lumens  
Efficiency: N/A  
Efficacy: 137.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 108.2  
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

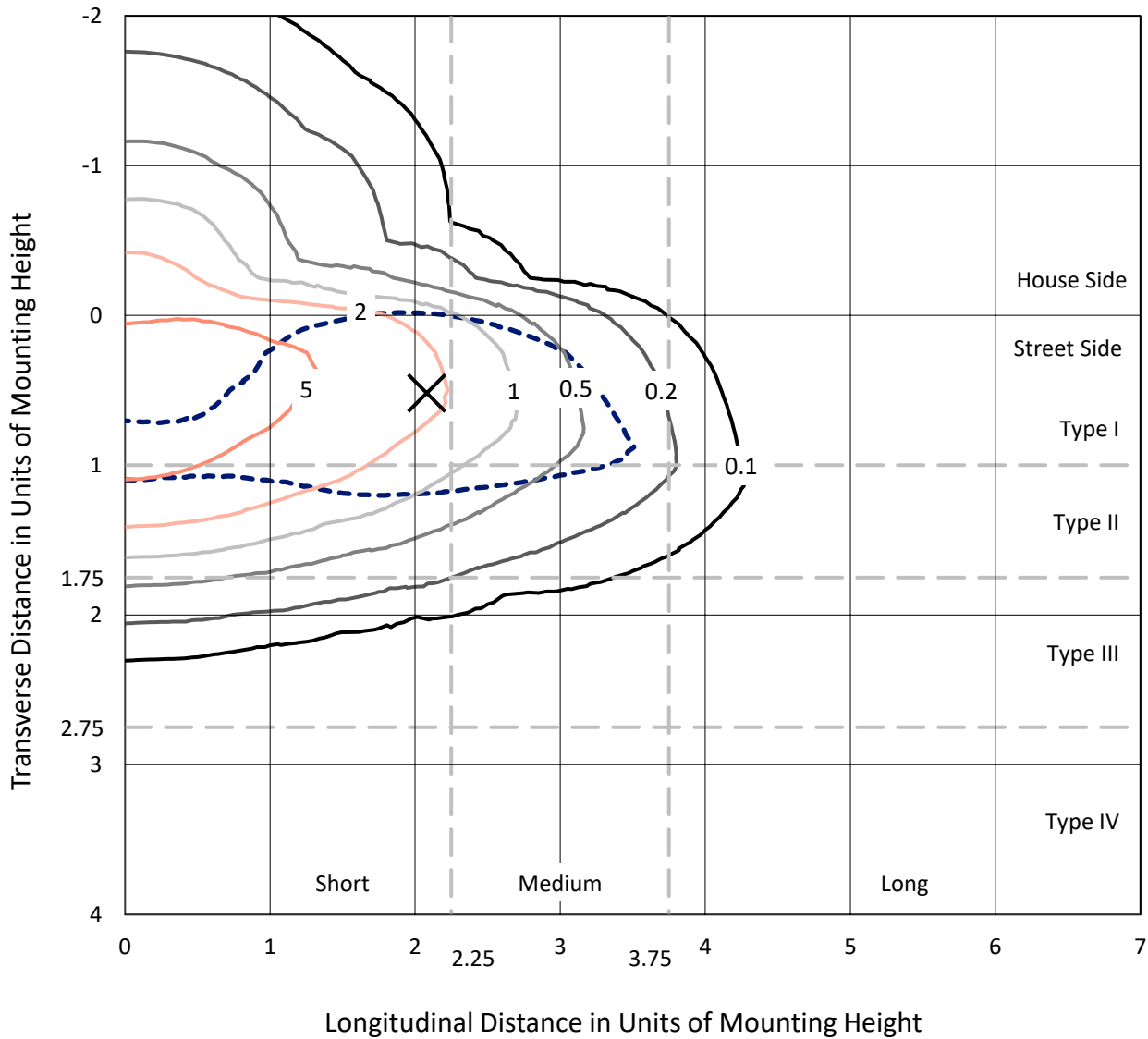


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### Iso-Footcandle Lines of Horizontal Illumination

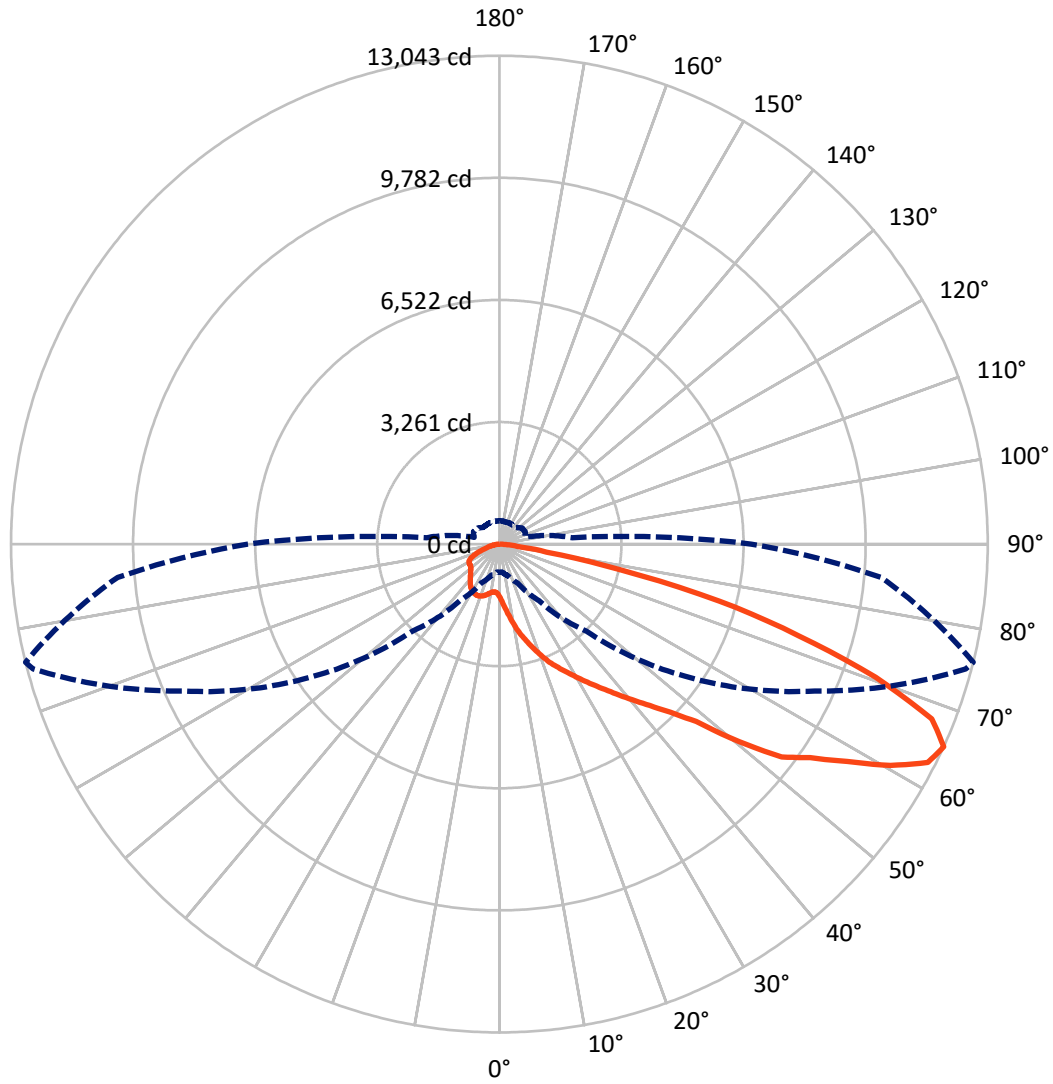
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.1 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	2486.9	0.0	2486.9
	% Fixture	16.7	0.0	16.7
<b>Street Side</b>	Lumens	12391.3	0.0	12391.3
	% Fixture	83.3	0.0	83.3
<b>Total</b>	Lumens	14878.2	0.0	14878.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.4	1.1
10°-20°	637.6	4.3
20°-30°	1242.5	8.4
30°-40°	2078.0	14.0
40°-50°	2975.3	20.0
50°-60°	3522.4	23.7
60°-70°	2928.9	19.7
70°-80°	1198.6	8.1
80°-90°	127.6	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°	14878.2	100.0
0°-180°	14878.2	100.0

**Coefficient of Utilization**



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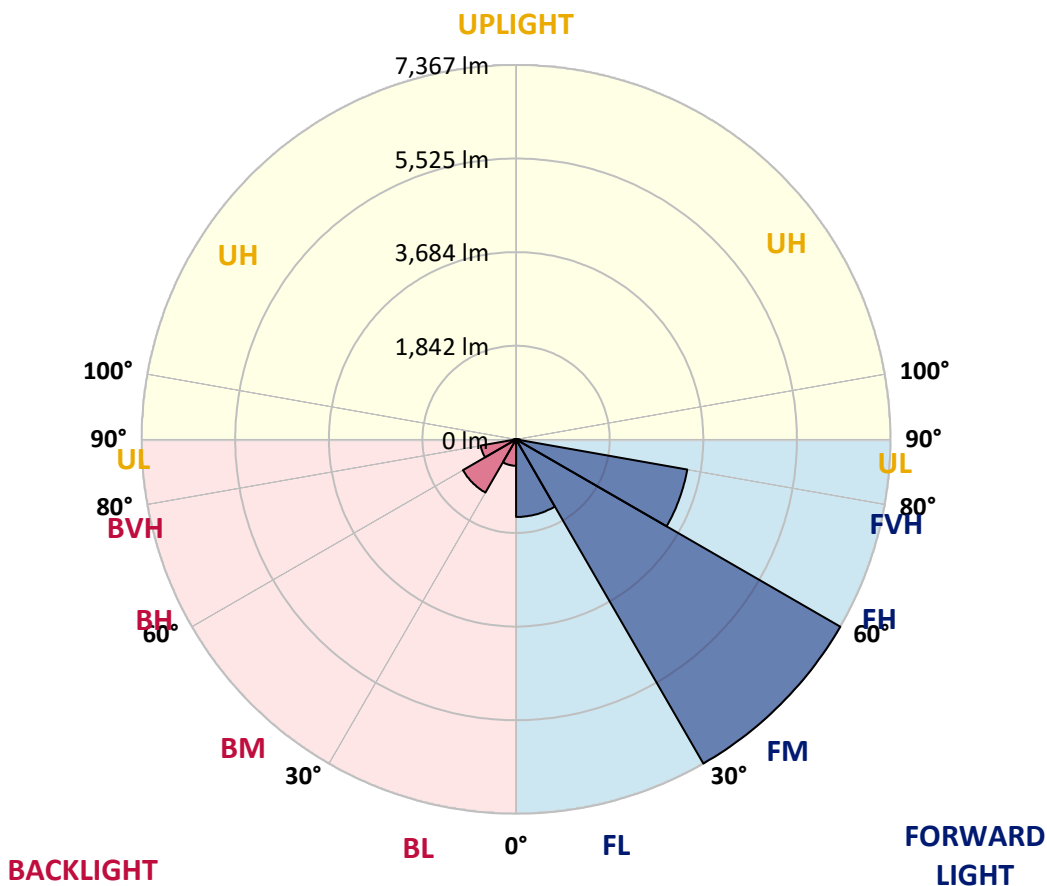
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1527.2	10.3			
FM (30°-60°)	7367.1	49.5			
FH (60°-80°)	3420.9	23.0			G2/5000
FVH (80°-90°)	76.1	0.5			G1/100
BL (0°-30°)	520.3	3.5	B2/1000		
BM (30°-60°)	1208.6	8.1	B2/2500		
BH (60°-80°)	706.6	4.7	B2/1000		G2/1000
BVH (80°-90°)	51.5	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°	1408.9	1408.9	1408.9	1408.9	1408.9	1408.9	1408.9	1408.9	1408.9	1408.9	1408.9
2.5°	1974.8	1982.1	1958.0	1949.7	1893.2	1816.8	1753.0	1656.8	1567.9	1554.3	1474.8
5°	2508.2	2476.8	2449.6	2431.9	2353.4	2266.6	2131.7	1950.7	1761.4	1738.4	1566.9
7.5°	2825.1	2819.9	2786.4	2776.0	2715.3	2628.5	2489.4	2264.5	1989.4	1951.8	1691.3
10°	3079.3	3076.2	3059.4	3068.9	3013.4	2928.7	2793.8	2561.6	2239.4	2201.7	1830.4
12.5°	3301.1	3306.3	3303.1	3337.7	3309.4	3243.5	3103.4	2848.2	2489.4	2448.6	1999.9
15°	3463.2	3467.4	3483.1	3558.4	3574.1	3560.5	3418.2	3129.5	2736.2	2677.7	2174.6
17.5°	3509.2	3517.6	3555.2	3676.6	3761.3	3817.8	3712.1	3416.1	2978.9	2915.1	2352.4
20°	3570.9	3580.3	3618.0	3744.5	3869.0	3997.7	3978.8	3706.9	3223.7	3171.4	2532.3
22.5°	3856.5	3849.1	3832.4	3893.1	3982.0	4142.0	4189.1	3986.2	3476.8	3426.6	2731.0
25°	4406.6	4393.0	4286.4	4230.9	4201.6	4298.9	4382.6	4240.3	3723.6	3648.3	2916.1
27.5°	5013.3	5006.0	4870.0	4738.2	4558.3	4516.5	4565.6	4462.1	3963.1	3886.8	3077.2
30°	5587.5	5565.6	5423.3	5258.0	5017.5	4837.6	4765.4	4679.6	4225.7	4146.2	3265.5
32.5°	6101.1	6072.9	5905.5	5722.5	5470.4	5258.0	5042.6	4910.8	4522.7	4430.7	3457.9
35°	6522.6	6494.4	6322.8	6128.3	5851.1	5694.2	5399.3	5161.8	4825.0	4731.9	3684.9
37.5°	6849.0	6822.8	6643.9	6452.5	6210.9	6086.5	5830.2	5444.2	5173.3	5076.1	3925.5
40°	7032.0	7013.2	6869.9	6718.2	6515.3	6407.6	6292.5	5800.9	5563.5	5466.2	4209.0
42.5°	7087.4	7074.9	6974.5	6896.0	6759.0	6677.4	6743.3	6220.3	5979.8	5895.0	4528.0
45°	6948.3	6948.3	6919.0	6958.8	6965.1	6964.0	7195.2	6694.2	6491.2	6398.1	4977.7
47.5°	6592.7	6615.7	6658.6	6854.2	7060.2	7232.8	7723.4	7325.9	7149.1	7072.8	5614.7
50°	5942.1	6004.9	6151.3	6533.1	6971.3	7410.6	8223.4	8260.0	8428.4	8293.4	6551.9
52.5°	4989.2	4979.8	5353.2	5897.1	6565.5	7418.0	8498.4	9084.2	9537.1	9444.0	7248.5
55°	3965.2	3949.6	4297.9	5047.8	5943.2	7137.6	8663.7	9461.8	10152.1	10068.4	7875.0
57.5°	3036.4	3016.6	3326.2	4002.9	5064.5	6542.5	8632.3	9911.5	10998.3	10955.4	8726.5
60°	2089.8	2065.8	2355.5	2947.5	4024.9	5632.5	8285.1	10142.7	11988.8	12003.5	9637.5
62.5°	1255.2	1241.6	1451.8	1911.0	2895.2	4505.0	7472.4	10002.5	12777.5	12843.4	10223.2
65°	757.3	747.9	871.3	1140.1	1836.7	3287.5	6219.3	9286.0	12891.5	13043.1	10236.8
67.5°	551.2	552.3	587.8	694.5	1071.1	2123.3	4667.1	8001.6	12297.4	12454.3	9591.5
70°	479.1	481.1	500.0	524.0	647.5	1215.4	3034.3	6316.6	10541.2	10662.5	8044.5
72.5°	425.7	425.7	438.3	450.8	506.2	740.5	1625.4	4415.0	8319.6	8352.0	6139.8
75°	374.5	371.3	377.6	383.9	439.3	517.8	790.7	3076.2	6145.0	6069.7	3968.4
77.5°	298.1	295.0	296.0	302.3	352.5	370.3	400.6	1921.4	3463.2	3268.6	1753.0
80°	212.3	210.2	221.7	237.4	260.4	227.0	251.0	929.9	1373.3	1278.2	679.9
82.5°	126.6	130.7	148.5	161.1	179.9	142.3	162.1	310.7	486.4	473.8	276.1
85°	17.8	18.8	53.3	61.7	77.4	55.4	85.8	140.2	194.5	208.1	97.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.3	25.1	55.4	56.5	24.1
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°	1408.9	1408.9	1408.9	1408.9	1408.9	1408.9	1408.9	1408.9	1408.9	1408.9	1408.9
2.5°	1434.0	1384.9	1314.8	1256.2	1207.0	1167.3	1133.8	1108.7	1101.4	1090.9	1090.9
5°	1486.3	1397.4	1271.9	1183.0	1131.7	1101.4	1080.5	1070.0	1064.8	1058.5	1055.4
7.5°	1558.5	1434.0	1264.6	1174.6	1134.9	1116.0	1102.4	1096.2	1092.0	1085.7	1085.7
10°	1657.8	1488.4	1287.6	1203.9	1172.5	1153.7	1138.0	1127.5	1118.1	1108.7	1106.6
12.5°	1765.6	1559.5	1329.4	1243.6	1210.2	1187.2	1165.2	1149.5	1138.0	1126.5	1123.4
15°	1884.8	1632.7	1374.4	1282.3	1240.5	1209.1	1183.0	1158.9	1143.2	1126.5	1124.4
17.5°	2002.0	1707.0	1412.0	1308.5	1255.2	1216.5	1178.8	1147.4	1127.5	1108.7	1103.5
20°	2142.1	1781.3	1438.2	1315.8	1252.0	1200.8	1155.8	1116.0	1094.1	1072.1	1069.0
22.5°	2270.8	1850.3	1450.7	1305.4	1228.0	1167.3	1115.0	1072.1	1048.1	1026.1	1021.9
25°	2395.3	1911.0	1445.5	1280.3	1191.4	1121.3	1066.9	1024.0	1001.0	978.0	971.7
27.5°	2515.5	1951.8	1424.6	1241.6	1145.3	1070.0	1017.7	979.0	959.1	939.3	930.9
30°	2633.7	1989.4	1392.2	1191.4	1086.8	1016.7	973.8	946.6	926.7	905.8	899.5
32.5°	2753.0	2016.6	1343.0	1132.8	1027.1	969.6	943.5	923.6	902.7	881.7	875.5
35°	2873.3	2028.1	1283.4	1065.8	976.9	939.3	929.9	906.8	878.6	853.5	845.1
37.5°	3016.6	2038.6	1209.1	999.9	933.0	924.6	922.5	888.0	854.6	820.0	810.6
40°	3189.1	2052.2	1132.8	940.3	897.4	919.4	911.0	864.0	797.0	763.6	753.1
42.5°	3400.4	2077.3	1053.3	885.9	871.3	899.5	890.1	805.4	760.4	741.6	736.4
45°	3711.1	2169.3	973.8	843.0	851.4	871.3	856.6	770.9	753.1	740.5	734.3
47.5°	4264.4	2310.5	904.8	810.6	835.7	846.2	789.7	761.5	747.9	731.1	723.8
50°	4839.7	2372.2	849.3	790.7	817.9	823.2	753.1	748.9	739.5	721.7	714.4
52.5°	5228.8	2363.9	815.9	783.4	803.3	783.4	736.4	735.3	729.0	708.1	699.7
55°	5668.1	2378.5	801.2	785.5	797.0	716.5	715.4	718.6	715.4	692.4	688.2
57.5°	6261.1	2423.5	793.9	792.8	792.8	684.1	695.6	699.7	693.5	683.0	679.9
60°	6831.2	2426.6	780.3	801.2	789.7	664.2	672.6	676.7	669.4	667.3	666.3
62.5°	7045.6	2276.0	750.0	794.9	777.1	642.2	648.5	650.6	643.3	648.5	647.5
65°	6726.6	1955.9	699.7	764.6	738.4	622.3	618.2	623.4	610.8	624.4	625.5
67.5°	5972.4	1554.3	623.4	707.1	684.1	600.4	592.0	592.0	571.1	592.0	591.0
70°	4815.6	1098.3	511.5	615.0	624.4	574.2	570.0	546.0	512.5	543.9	540.8
72.5°	3650.4	788.7	402.7	486.4	537.6	537.6	538.7	497.9	459.2	473.8	461.3
75°	2312.6	555.4	322.2	372.4	421.5	471.7	495.8	420.5	386.0	379.7	373.4
77.5°	1041.8	365.0	251.0	285.5	299.1	372.4	452.9	361.9	314.8	301.2	297.1
80°	436.2	227.0	178.9	201.9	184.1	312.7	399.6	281.4	231.2	212.3	198.7
82.5°	191.4	134.9	114.0	108.8	115.1	232.2	298.1	187.2	144.3	195.6	197.7
85°	80.5	71.1	58.6	53.3	47.1	88.9	140.2	73.2	90.0	51.3	41.8
87.5°	18.8	20.9	15.7	10.5	6.3	1.0	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)