

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: P632881

Luminaire Tested: GWS-SA2D-750-U-T2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632881  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2D-750-U-T2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11849.9 lumens  
Efficiency: N/A  
Efficacy: 144.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

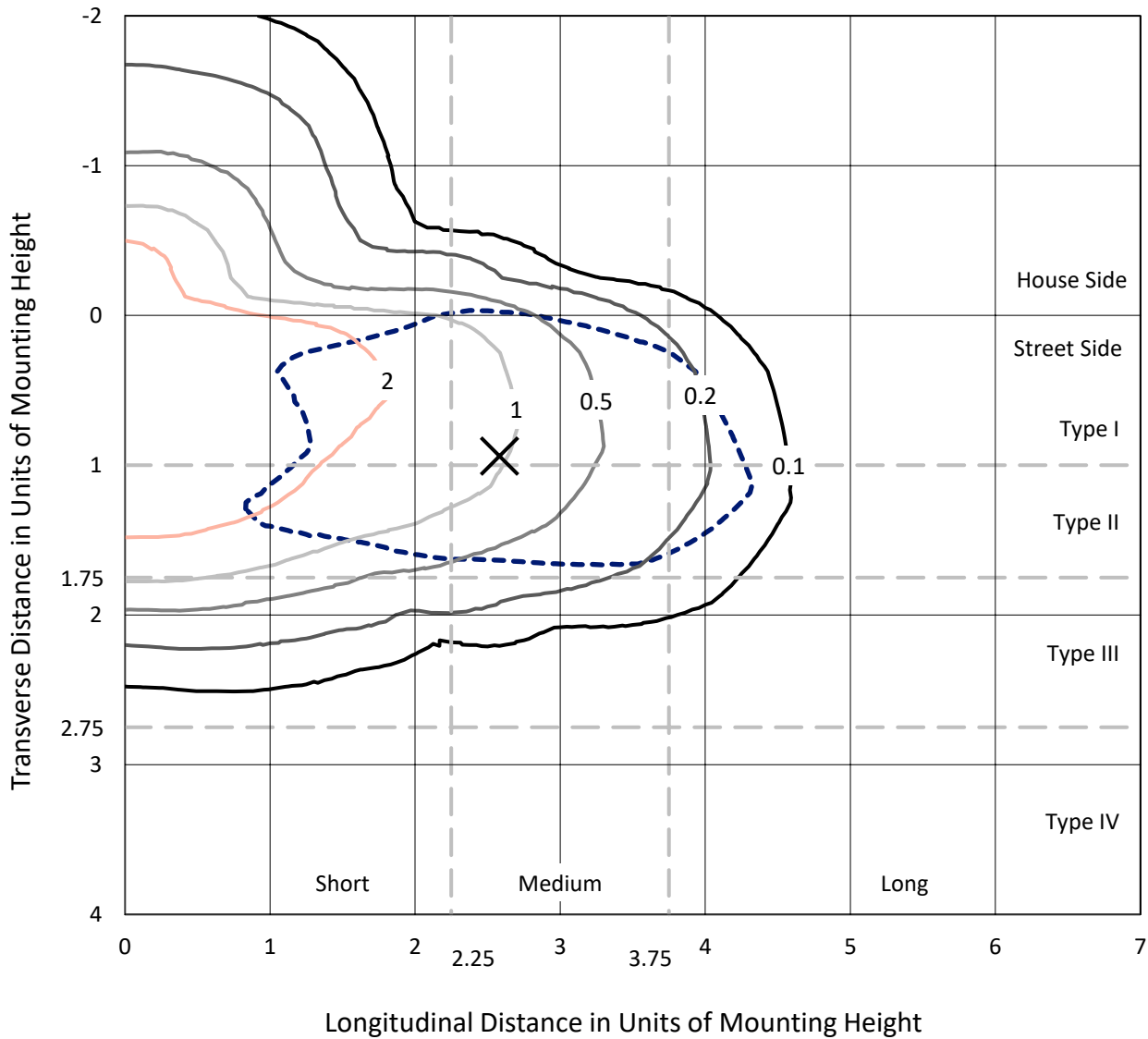
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

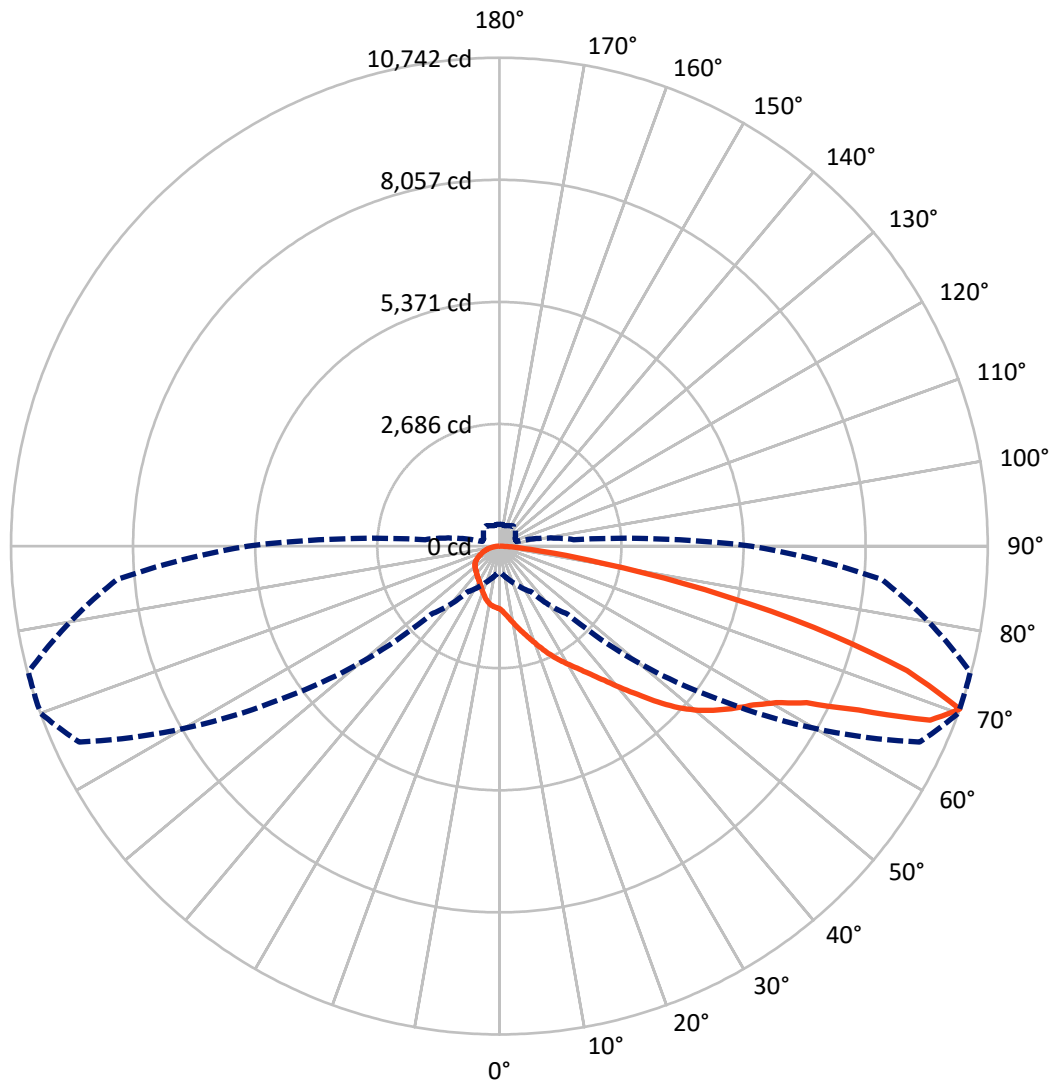
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2123.5	0.0	2123.5
	% Fixture	17.9	0.0	17.9
<b>Street Side</b>	Lumens	9726.4	0.0	9726.4
	% Fixture	82.1	0.0	82.1
<b>Total</b>	Lumens	11849.9	0.0	11849.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.5	1.2
10°-20°	456.9	3.9
20°-30°	809.4	6.8
30°-40°	1218.2	10.3
40°-50°	1843.0	15.6
50°-60°	2640.2	22.3
60°-70°	2918.5	24.6
70°-80°	1647.0	13.9
80°-90°	176.2	1.5
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°	11849.9	100.0
0°-180°	11849.9	100.0

**Coefficient of Utilization**



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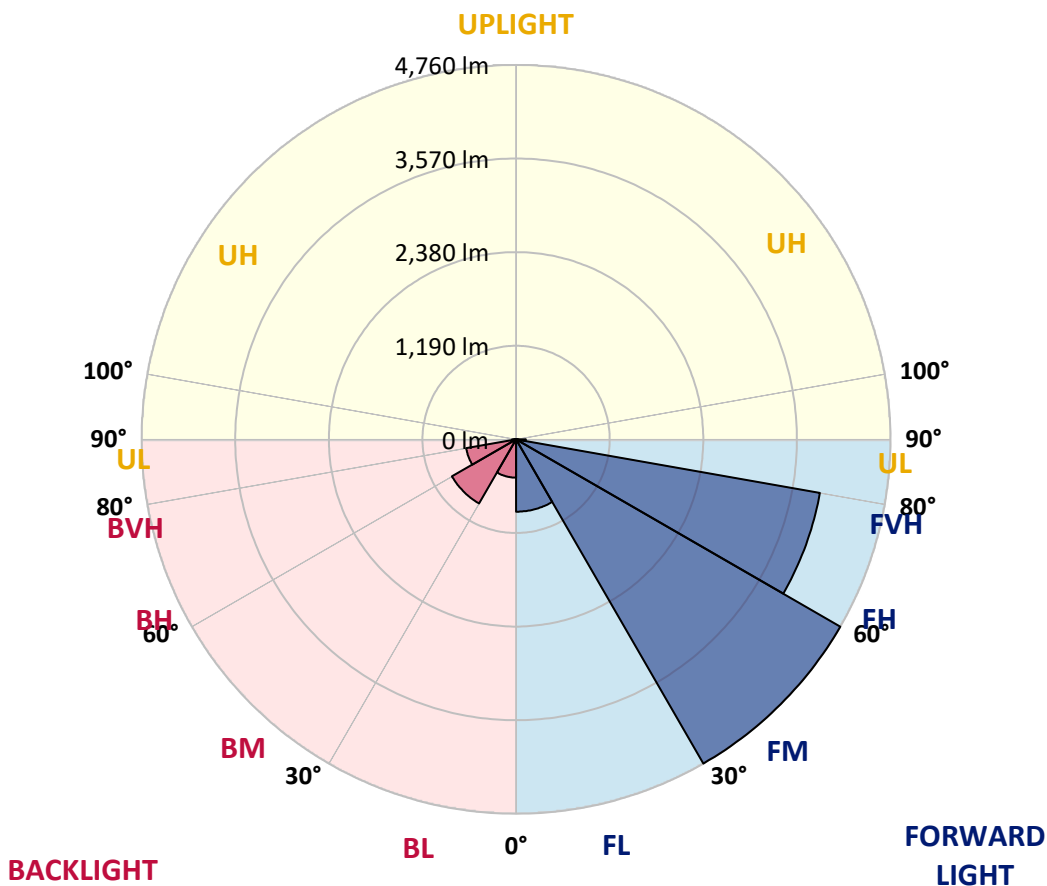
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	919.9	7.8			
FM (30°-60°)	4760.1	40.2			
FH (60°-80°)	3921.8	33.1			G2/5000
FVH (80°-90°)	124.5	1.1			G2/225
BL (0°-30°)	486.9	4.1	B1/500		
BM (30°-60°)	941.4	7.9	B1/1000		
BH (60°-80°)	643.6	5.4	B2/1000		G2/1000
BVH (80°-90°)	51.6	0.4			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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9
2.5°	1530.9	1528.4	1530.1	1528.4	1518.9	1495.8	1477.0	1453.0	1436.7	1427.3	1405.1
5°	1710.7	1708.2	1702.2	1693.6	1676.5	1644.8	1597.7	1545.5	1513.8	1489.8	1442.7
7.5°	1840.0	1840.0	1839.2	1828.9	1816.9	1783.5	1727.9	1659.4	1613.1	1572.0	1495.0
10°	1906.0	1910.2	1916.2	1930.8	1928.2	1910.2	1858.0	1784.4	1726.1	1678.2	1563.5
12.5°	1941.9	1944.5	1954.8	1984.7	2015.5	2019.8	1989.0	1911.9	1848.6	1784.4	1639.7
15°	1988.1	1989.0	2002.7	2038.7	2084.0	2129.4	2121.7	2044.7	1979.6	1908.5	1724.4
17.5°	2024.1	2030.1	2054.9	2096.9	2153.4	2215.9	2253.6	2205.6	2125.1	2043.8	1816.9
20°	2037.0	2041.2	2073.8	2138.0	2215.0	2303.2	2387.1	2374.3	2293.0	2197.1	1921.4
22.5°	2083.2	2083.2	2107.2	2161.1	2251.9	2380.3	2516.4	2549.8	2477.9	2365.7	2033.5
25°	2185.1	2181.7	2192.8	2215.0	2283.5	2441.9	2644.0	2744.2	2663.7	2537.8	2145.7
27.5°	2324.6	2322.9	2322.1	2325.5	2348.6	2495.9	2751.9	2925.7	2845.2	2703.1	2245.9
30°	2476.2	2471.1	2482.2	2471.9	2466.8	2560.1	2843.5	3088.4	3025.9	2866.6	2328.9
32.5°	2682.5	2673.1	2670.6	2637.2	2616.6	2660.3	2917.2	3273.3	3223.7	3043.0	2422.3
35°	2954.8	2946.3	2902.6	2849.5	2788.7	2809.3	3008.8	3454.0	3457.4	3263.9	2544.7
37.5°	3229.7	3231.4	3197.1	3072.1	3009.6	2997.6	3148.3	3674.1	3747.7	3527.6	2703.1
40°	3458.3	3468.6	3468.6	3336.7	3243.4	3232.2	3344.4	3935.2	4081.6	3851.3	2903.5
42.5°	3632.1	3641.5	3671.5	3576.4	3478.0	3516.5	3582.4	4197.2	4460.1	4251.1	3156.9
45°	3823.0	3830.7	3847.0	3792.2	3734.8	3837.6	3852.1	4510.6	4893.3	4699.8	3451.4
47.5°	4076.5	4069.6	4071.3	4031.1	3986.6	4152.7	4149.3	4774.3	5312.0	5191.3	3770.8
50°	4391.6	4404.4	4392.4	4312.8	4260.6	4412.1	4431.8	5066.3	5680.2	5677.6	4092.7
52.5°	4694.7	4699.8	4763.2	4766.6	4659.6	4627.9	4679.3	5360.8	5991.0	6122.8	4401.8
55°	4710.1	4729.8	4919.9	5056.9	5229.8	4975.5	4929.3	5641.7	6291.5	6558.7	4722.9
57.5°	4382.1	4413.8	4736.6	5032.0	5513.2	5572.3	5357.4	6004.7	6592.1	6987.6	5094.5
60°	3681.8	3747.7	4186.1	4638.2	5385.6	6001.3	6233.3	6497.9	6986.8	7426.0	5545.8
62.5°	2351.2	2376.9	2991.6	3748.5	4811.1	5959.3	7187.1	7366.9	7587.8	7997.1	6241.0
65°	1177.3	1259.5	1620.0	2237.3	3469.4	5251.2	7669.2	8958.7	8688.1	8974.9	7367.8
67.5°	798.9	825.4	1007.8	1344.3	2034.4	3720.3	7370.4	10299.5	10219.9	10267.0	8569.1
70°	589.1	606.2	750.1	952.1	1230.4	2112.3	5867.7	10198.5	10742.2	10725.0	8443.2
72.5°	429.8	438.4	547.1	726.9	911.9	1092.5	3583.3	8238.6	9377.4	9871.4	7384.1
75°	312.5	322.8	380.2	543.7	709.0	681.6	1769.0	5950.7	7151.2	8101.6	6015.8
77.5°	232.9	245.7	272.3	340.8	496.6	488.0	764.6	3864.1	4625.3	5291.5	3654.4
80°	167.8	170.4	185.8	218.3	315.1	286.0	363.9	2014.7	2310.1	2531.0	1432.5
82.5°	101.9	104.5	124.2	134.4	195.2	179.8	189.2	652.4	935.0	992.4	535.1
85°	30.0	31.7	56.5	61.6	81.3	77.1	76.2	265.4	316.8	405.0	210.6
87.5°	0.0	0.0	0.0	0.0	0.9	5.1	9.4	47.1	71.1	98.5	51.4
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°	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9
2.5°	1396.5	1376.8	1366.5	1348.6	1335.7	1322.9	1310.0	1298.0	1292.9	1285.2	1286.9
5°	1421.3	1390.5	1359.7	1324.6	1294.6	1269.8	1247.5	1227.8	1219.3	1211.6	1215.0
7.5°	1459.0	1412.8	1353.7	1289.5	1242.4	1208.1	1185.0	1171.3	1167.0	1161.0	1161.0
10°	1507.0	1437.6	1334.0	1242.4	1185.9	1158.5	1148.2	1147.3	1151.6	1152.5	1150.8
12.5°	1560.0	1461.6	1304.9	1186.7	1138.8	1130.2	1137.9	1152.5	1167.0	1174.7	1173.0
15°	1614.8	1477.0	1255.2	1133.6	1104.5	1115.7	1140.5	1169.6	1197.9	1212.4	1211.6
17.5°	1666.2	1480.4	1191.0	1082.3	1074.6	1102.8	1145.6	1191.0	1229.5	1250.1	1250.9
20°	1723.6	1474.4	1125.1	1036.0	1044.6	1090.8	1147.3	1202.1	1247.5	1268.1	1273.2
22.5°	1775.8	1453.9	1060.9	992.4	1018.9	1076.3	1133.6	1185.0	1225.3	1244.9	1251.8
25°	1822.9	1414.5	990.6	955.5	999.2	1055.7	1099.4	1135.4	1163.6	1175.6	1185.0
27.5°	1848.6	1355.4	937.6	926.4	980.4	1026.6	1050.6	1061.7	1071.1	1067.7	1074.6
30°	1853.7	1281.8	891.3	903.3	952.1	986.4	991.5	980.4	964.1	937.6	943.6
32.5°	1848.6	1197.0	852.8	878.5	920.4	941.0	934.1	905.0	865.6	824.5	827.1
35°	1850.3	1111.4	821.1	851.1	883.6	894.8	877.6	837.4	795.4	757.8	756.0
37.5°	1869.1	1039.5	794.6	824.5	847.7	849.4	830.5	788.6	767.2	738.9	735.5
40°	1921.4	986.4	770.6	798.0	812.6	811.7	790.3	760.3	774.9	765.5	762.9
42.5°	2007.0	953.8	750.9	769.7	780.0	781.7	764.6	745.8	777.5	765.5	761.2
45°	2144.8	952.1	737.2	741.5	757.8	769.7	757.8	736.4	748.3	690.1	679.0
47.5°	2308.4	981.2	726.9	716.7	744.9	766.3	747.5	713.2	688.4	635.3	627.6
50°	2505.3	1040.3	717.5	690.1	726.1	753.5	734.6	687.5	649.9	621.6	617.3
52.5°	2739.1	1118.2	705.5	660.1	697.8	746.6	734.6	685.0	635.3	609.6	605.3
55°	2983.9	1208.1	691.8	624.2	666.1	748.3	740.6	667.0	624.2	610.5	607.1
57.5°	3287.9	1316.0	667.0	582.2	637.9	732.9	716.7	656.7	616.5	605.3	601.9
60°	3682.6	1476.1	619.9	539.4	605.3	705.5	695.3	639.6	595.9	586.5	583.9
62.5°	4307.7	1747.6	562.5	498.3	566.8	648.2	663.6	607.1	570.2	569.4	568.5
65°	5326.6	2073.8	494.9	461.5	526.6	601.1	621.6	573.7	543.7	553.1	552.3
67.5°	6040.7	2102.0	439.2	423.0	479.5	549.7	579.7	539.4	506.9	524.9	524.0
70°	5532.9	1639.7	391.3	382.7	429.0	494.0	534.3	496.6	464.1	481.2	477.8
72.5°	4666.4	1256.9	345.9	340.8	377.6	435.8	476.1	453.8	419.5	419.5	411.8
75°	3750.3	1036.9	298.0	295.4	320.2	376.7	422.1	384.4	352.8	351.1	345.9
77.5°	2150.8	679.8	250.0	248.3	256.0	315.1	327.9	320.2	296.3	285.1	281.7
80°	857.1	353.6	196.9	185.8	193.5	231.2	258.6	245.7	225.2	211.5	203.8
82.5°	332.2	177.2	138.7	121.6	132.7	167.0	187.5	183.2	169.5	138.7	130.1
85°	135.3	86.5	83.1	70.2	77.1	89.9	107.9	93.3	77.1	54.8	52.2
87.5°	36.0	31.7	30.8	18.8	14.6	4.3	0.9	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)