

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: P633376

Luminaire Tested: GWS-SA2E-750-U-T2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633376  
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-SA2E-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**

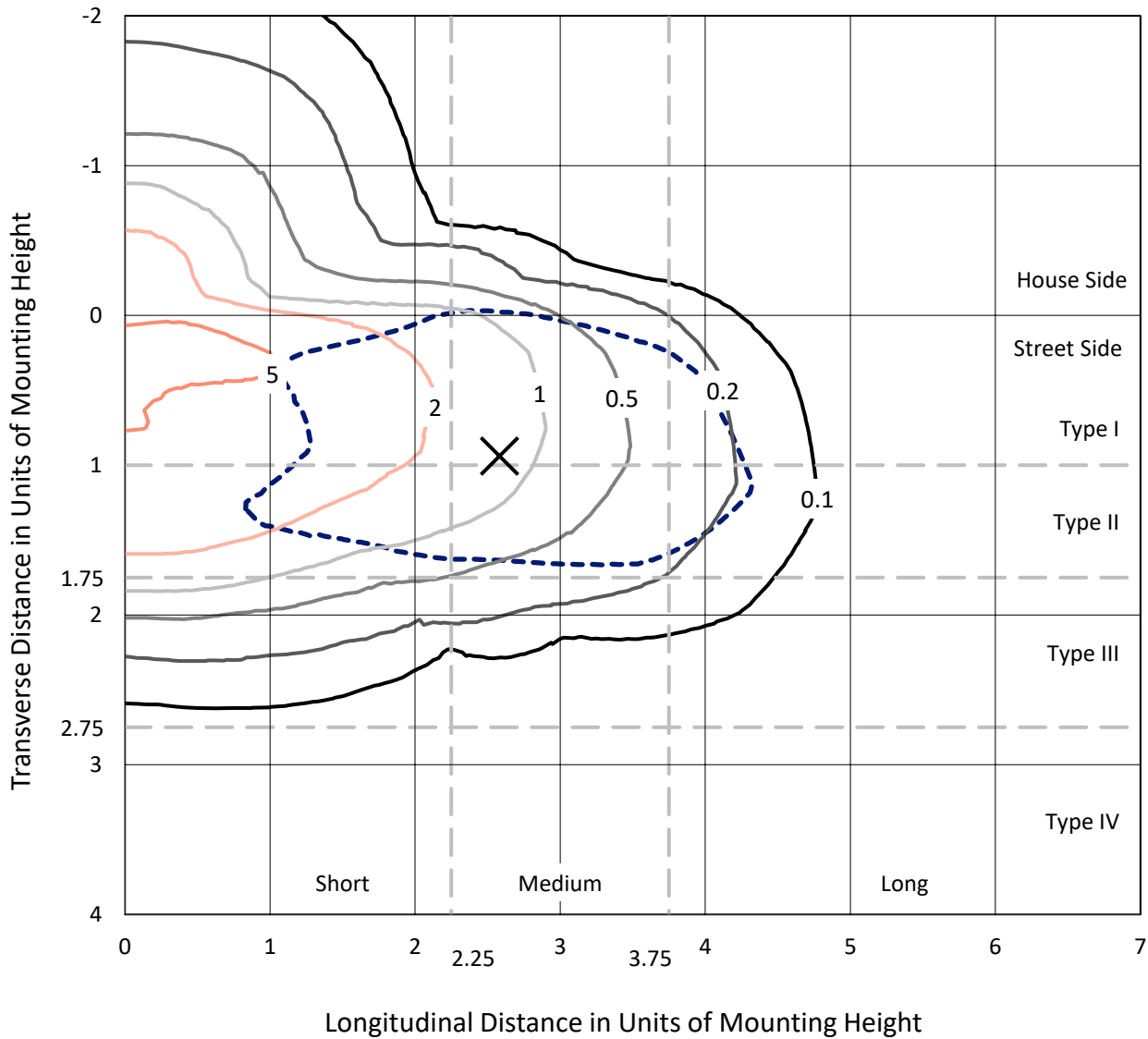
Lumens per Lamp: N/A  
Luminaire Lumens: 14808.2 lumens  
Efficiency: N/A  
Efficacy: 136.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): 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

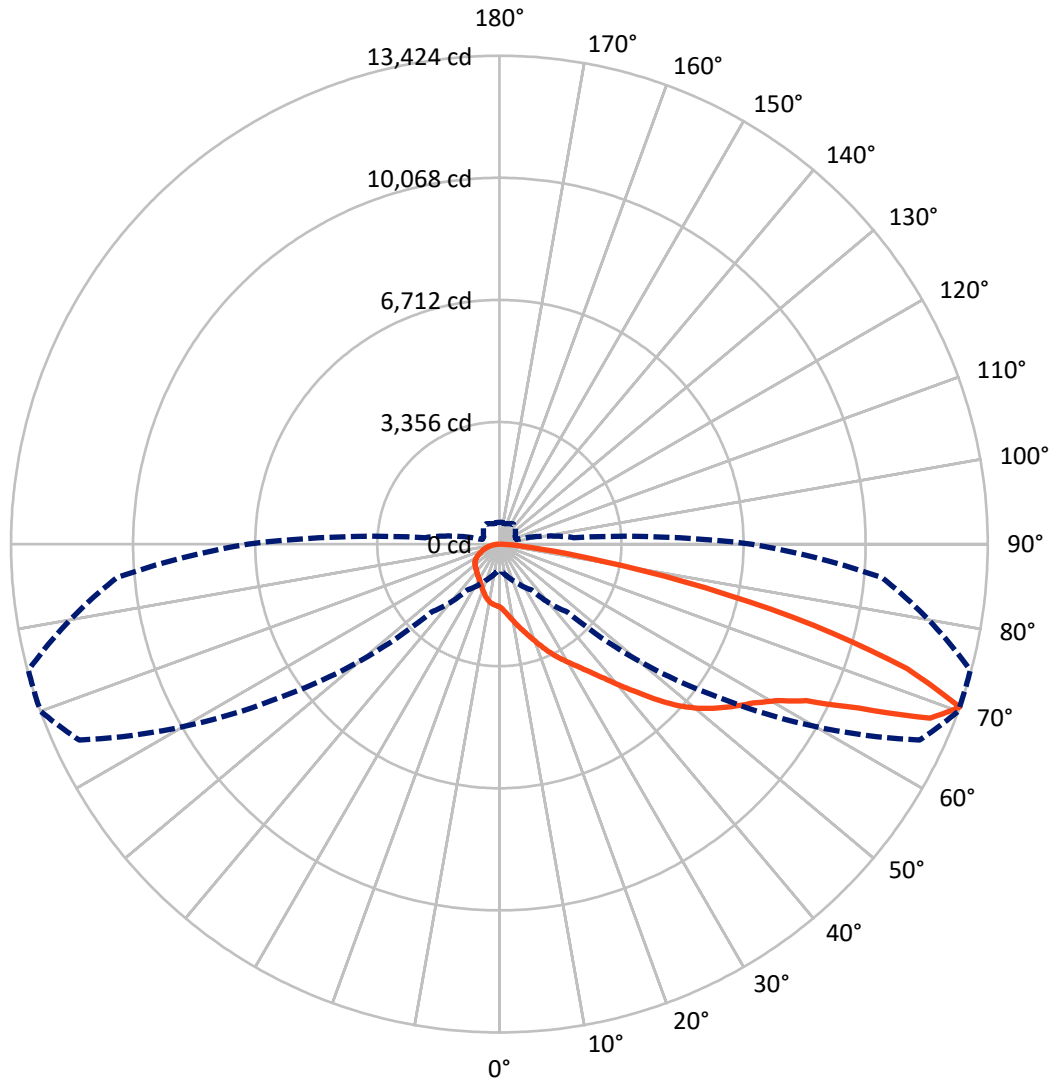
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.2 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	2653.7	0.0	2653.7
	% Fixture	17.9	0.0	17.9
<b>Street Side</b>	Lumens	12154.5	0.0	12154.5
	% Fixture	82.1	0.0	82.1
<b>Total</b>	Lumens	14808.2	0.0	14808.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.5	1.2
10°-20°	571.0	3.9
20°-30°	1011.5	6.8
30°-40°	1522.3	10.3
40°-50°	2303.1	15.6
50°-60°	3299.4	22.3
60°-70°	3647.1	24.6
70°-80°	2058.1	13.9
80°-90°	220.1	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°	14808.2	100.0
0°-180°	14808.2	100.0

**Coefficient of Utilization**



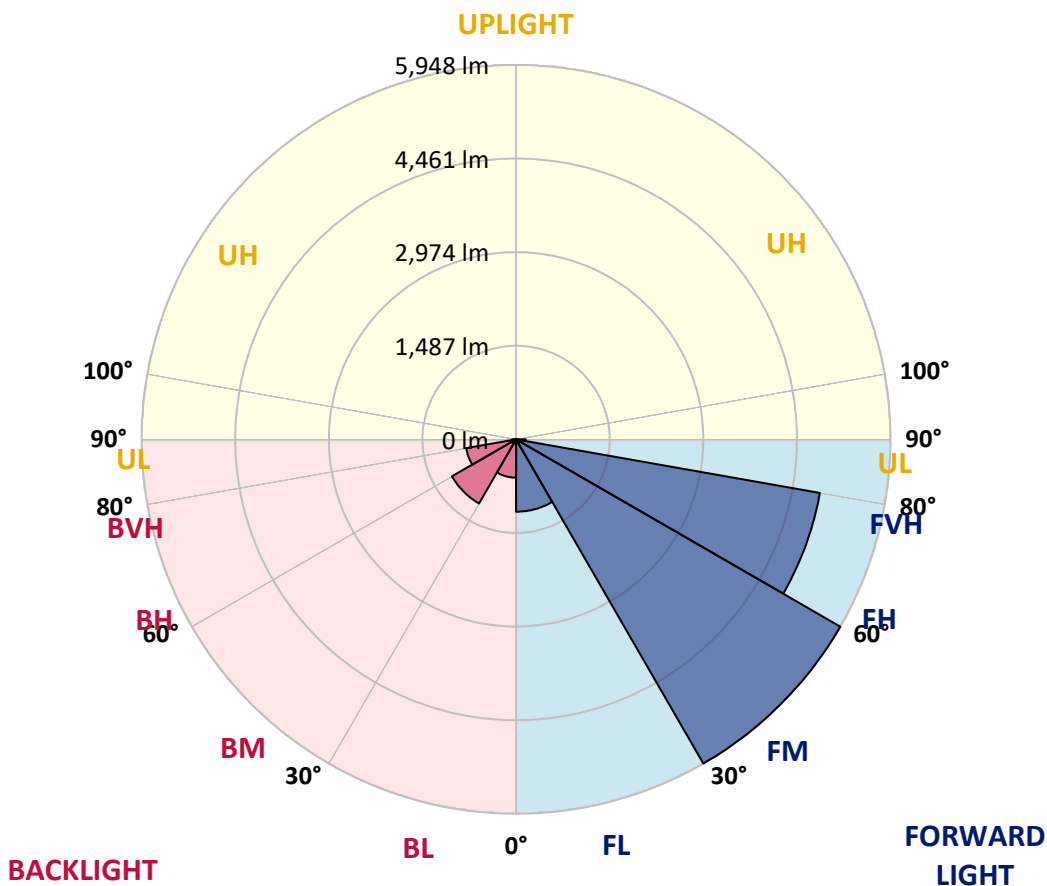
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1149.6	7.8			
FM (30°-60°)	5948.4	40.2			
FH (60°-80°)	4900.9	33.1			G2/5000
FVH (80°-90°)	155.6	1.1			G2/225
BL (0°-30°)	608.4	4.1	B2/1000		
BM (30°-60°)	1176.4	7.9	B2/2500		
BH (60°-80°)	804.3	5.4	B2/1000		G2/1000
BVH (80°-90°)	64.5	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°	1726.9	1726.9	1726.9	1726.9	1726.9	1726.9	1726.9	1726.9	1726.9	1726.9	1726.9
2.5°	1913.1	1909.9	1912.0	1909.9	1898.1	1869.2	1845.7	1815.8	1795.4	1783.7	1755.8
5°	2137.8	2134.6	2127.1	2116.4	2095.0	2055.4	1996.6	1931.3	1891.7	1861.8	1802.9
7.5°	2299.4	2299.4	2298.3	2285.5	2270.5	2228.8	2159.2	2073.6	2015.8	1964.5	1868.2
10°	2381.8	2387.1	2394.6	2412.8	2409.6	2387.1	2321.8	2229.8	2157.1	2097.2	1953.8
12.5°	2426.7	2429.9	2442.8	2480.2	2518.7	2524.1	2485.6	2389.3	2310.1	2229.8	2049.0
15°	2484.5	2485.6	2502.7	2547.6	2604.3	2661.0	2651.4	2555.1	2473.8	2385.0	2154.9
17.5°	2529.4	2536.9	2567.9	2620.4	2691.0	2769.1	2816.2	2756.3	2655.7	2554.0	2270.5
20°	2545.5	2550.8	2591.5	2671.7	2768.0	2878.2	2983.1	2967.0	2865.4	2745.6	2401.0
22.5°	2603.3	2603.3	2633.2	2700.6	2814.0	2974.5	3144.7	3186.4	3096.5	2956.3	2541.2
25°	2730.6	2726.3	2740.2	2768.0	2853.6	3051.6	3304.1	3429.3	3328.7	3171.4	2681.4
27.5°	2905.0	2902.8	2901.8	2906.1	2934.9	3119.0	3438.9	3656.1	3555.5	3377.9	2806.5
30°	3094.4	3088.0	3101.9	3089.0	3082.6	3199.2	3553.4	3859.4	3781.3	3582.3	2910.3
32.5°	3352.2	3340.5	3337.3	3295.5	3269.8	3324.4	3645.4	4090.5	4028.5	3802.7	3027.0
35°	3692.5	3681.8	3627.2	3560.9	3484.9	3510.6	3759.9	4316.3	4320.6	4078.8	3180.0
37.5°	4036.0	4038.1	3995.3	3839.1	3761.0	3746.0	3934.3	4591.3	4683.3	4408.3	3377.9
40°	4321.6	4334.5	4334.5	4169.7	4053.1	4039.2	4179.3	4917.6	5100.6	4812.8	3628.3
42.5°	4538.8	4550.6	4588.1	4469.3	4346.2	4394.4	4476.8	5245.0	5573.5	5312.4	3945.0
45°	4777.4	4787.1	4807.4	4738.9	4667.2	4795.6	4813.8	5636.6	6114.9	5873.1	4313.1
47.5°	5094.2	5085.6	5087.7	5037.5	4981.8	5189.4	5185.1	5966.2	6638.1	6487.3	4712.2
50°	5487.9	5504.0	5489.0	5389.5	5324.2	5513.6	5538.2	6331.1	7098.2	7095.0	5114.5
52.5°	5866.7	5873.1	5952.3	5956.6	5822.8	5783.2	5847.4	6699.1	7486.6	7651.4	5500.8
55°	5885.9	5910.6	6148.1	6319.3	6535.4	6217.6	6159.9	7050.1	7862.2	8196.0	5902.0
57.5°	5476.1	5515.7	5919.1	6288.3	6889.6	6963.4	6694.8	7503.7	8237.8	8732.1	6366.4
60°	4600.9	4683.3	5231.1	5796.1	6730.2	7499.5	7789.4	8120.1	8731.0	9279.9	6930.2
62.5°	2938.2	2970.3	3738.5	4684.4	6012.2	7447.0	8981.4	9206.1	9482.1	9993.6	7799.1
65°	1471.2	1573.9	2024.4	2795.8	4335.5	6562.2	9583.8	11195.2	10857.1	11215.5	9207.2
67.5°	998.3	1031.5	1259.4	1679.9	2542.3	4649.0	9210.4	12870.8	12771.2	12830.1	10708.3
70°	736.1	757.5	937.3	1189.8	1537.6	2639.6	7332.6	12744.5	13423.9	13402.5	10551.0
72.5°	537.1	547.8	683.7	908.4	1139.5	1365.3	4477.9	10295.3	11718.4	12335.8	9227.5
75°	390.5	403.4	475.1	679.4	885.9	851.7	2210.6	7436.3	8936.4	10124.1	7517.7
77.5°	291.0	307.1	340.3	425.9	620.6	609.9	955.5	4828.8	5780.0	6612.5	4566.7
80°	209.7	212.9	232.2	272.8	393.8	357.4	454.7	2517.7	2886.8	3162.9	1790.1
82.5°	127.3	130.5	155.1	168.0	244.0	224.7	236.5	815.3	1168.4	1240.1	668.7
85°	37.4	39.6	70.6	77.0	101.6	96.3	95.2	331.7	395.9	506.1	263.2
87.5°	0.0	0.0	0.0	0.0	1.1	6.4	11.8	58.8	88.8	123.0	64.2
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°	1726.9	1726.9	1726.9	1726.9	1726.9	1726.9	1726.9	1726.9	1726.9	1726.9	1726.9
2.5°	1745.1	1720.5	1707.7	1685.2	1669.2	1653.1	1637.1	1622.1	1615.7	1606.0	1608.2
5°	1776.2	1737.6	1699.1	1655.3	1617.8	1586.8	1559.0	1534.3	1523.6	1514.0	1518.3
7.5°	1823.2	1765.5	1691.6	1611.4	1552.5	1509.7	1480.8	1463.7	1458.4	1450.9	1450.9
10°	1883.2	1796.5	1667.0	1552.5	1481.9	1447.7	1434.8	1433.8	1439.1	1440.2	1438.0
12.5°	1949.5	1826.5	1630.6	1483.0	1423.1	1412.4	1422.0	1440.2	1458.4	1468.0	1465.9
15°	2018.0	1845.7	1568.6	1416.6	1380.3	1394.2	1425.2	1461.6	1496.9	1515.1	1514.0
17.5°	2082.2	1850.0	1488.3	1352.5	1342.8	1378.1	1431.6	1488.3	1536.5	1562.2	1563.2
20°	2153.9	1842.5	1405.9	1294.7	1305.4	1363.2	1433.8	1502.2	1559.0	1584.6	1591.1
22.5°	2219.1	1816.8	1325.7	1240.1	1273.3	1345.0	1416.6	1480.8	1531.1	1555.7	1564.3
25°	2278.0	1767.6	1238.0	1194.1	1248.7	1319.3	1373.9	1418.8	1454.1	1469.1	1480.8
27.5°	2310.1	1693.8	1171.6	1157.7	1225.1	1282.9	1312.9	1326.8	1338.5	1334.3	1342.8
30°	2316.5	1601.8	1113.8	1128.8	1189.8	1232.6	1239.0	1225.1	1204.8	1171.6	1179.1
32.5°	2310.1	1495.8	1065.7	1097.8	1150.2	1175.9	1167.3	1131.0	1081.7	1030.4	1033.6
35°	2312.2	1388.8	1026.1	1063.6	1104.2	1118.1	1096.7	1046.4	994.0	946.9	944.8
37.5°	2335.8	1299.0	992.9	1030.4	1059.3	1061.4	1037.9	985.4	958.7	923.4	919.1
40°	2401.0	1232.6	963.0	997.2	1015.4	1014.3	987.6	950.1	968.3	956.6	953.3
42.5°	2508.0	1192.0	938.4	961.9	974.7	976.9	955.5	931.9	971.5	956.6	951.2
45°	2680.3	1189.8	921.3	926.6	946.9	961.9	946.9	920.2	935.2	862.4	848.5
47.5°	2884.7	1226.2	908.4	895.6	930.9	957.6	934.1	891.3	860.3	793.9	784.3
50°	3130.8	1300.0	896.6	862.4	907.3	941.6	918.0	859.2	812.1	776.8	771.5
52.5°	3422.9	1397.4	881.7	825.0	872.0	933.0	918.0	856.0	793.9	761.8	756.5
55°	3728.9	1509.7	864.5	780.0	832.4	935.2	925.5	833.5	780.0	762.9	758.6
57.5°	4108.7	1644.6	833.5	727.6	797.1	915.9	895.6	820.7	770.4	756.5	752.2
60°	4602.0	1844.6	774.7	674.1	756.5	881.7	868.8	799.3	744.7	732.9	729.7
62.5°	5383.1	2183.8	703.0	622.7	708.3	810.0	829.2	758.6	712.6	711.5	710.5
65°	6656.3	2591.5	618.4	576.7	658.0	751.1	776.8	716.9	679.4	691.2	690.1
67.5°	7548.7	2626.8	548.9	528.6	599.2	686.9	724.4	674.1	633.4	655.9	654.8
70°	6914.2	2049.0	489.0	478.3	536.1	617.4	667.7	620.6	579.9	601.3	597.0
72.5°	5831.4	1570.7	432.3	425.9	471.9	544.6	594.9	567.1	524.3	524.3	514.7
75°	4686.5	1295.7	372.4	369.1	400.2	470.8	527.5	480.4	440.8	438.7	432.3
77.5°	2687.8	849.6	312.4	310.3	319.9	393.8	409.8	400.2	370.2	356.3	352.0
80°	1071.0	441.9	246.1	232.2	241.8	288.9	323.1	307.1	281.4	264.3	254.7
82.5°	415.2	221.5	173.3	151.9	165.8	208.6	234.3	229.0	211.9	173.3	162.6
85°	169.1	108.1	103.8	87.7	96.3	112.3	134.8	116.6	96.3	68.5	65.3
87.5°	44.9	39.6	38.5	23.5	18.2	5.3	1.1	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)