

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: P636845

Luminaire Tested: GWS-SA4B-750-U-T2R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636845  
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-SA4B-750-U-T2R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15097.3 lumens  
Efficiency: N/A  
Efficacy: 159.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

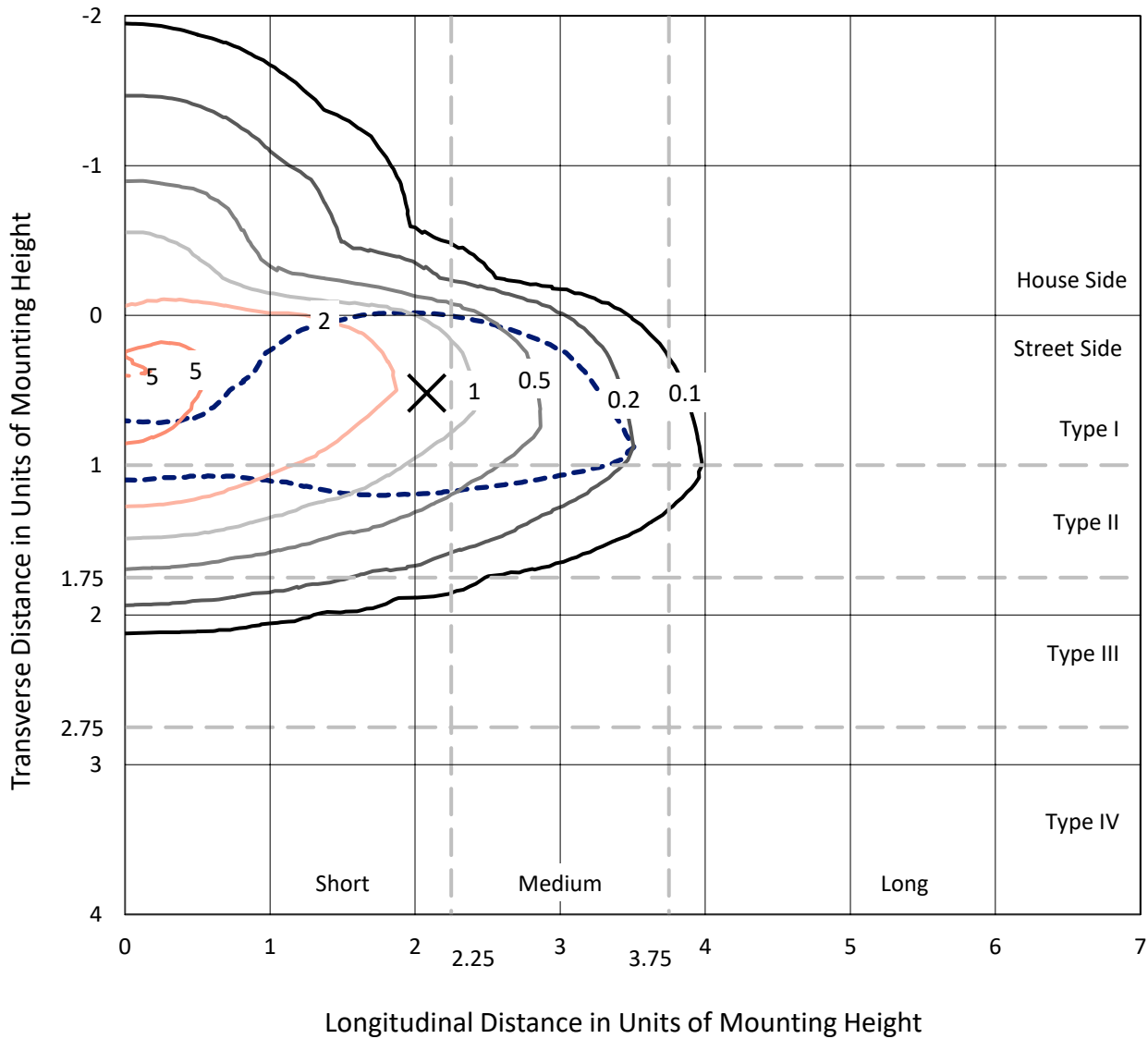
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

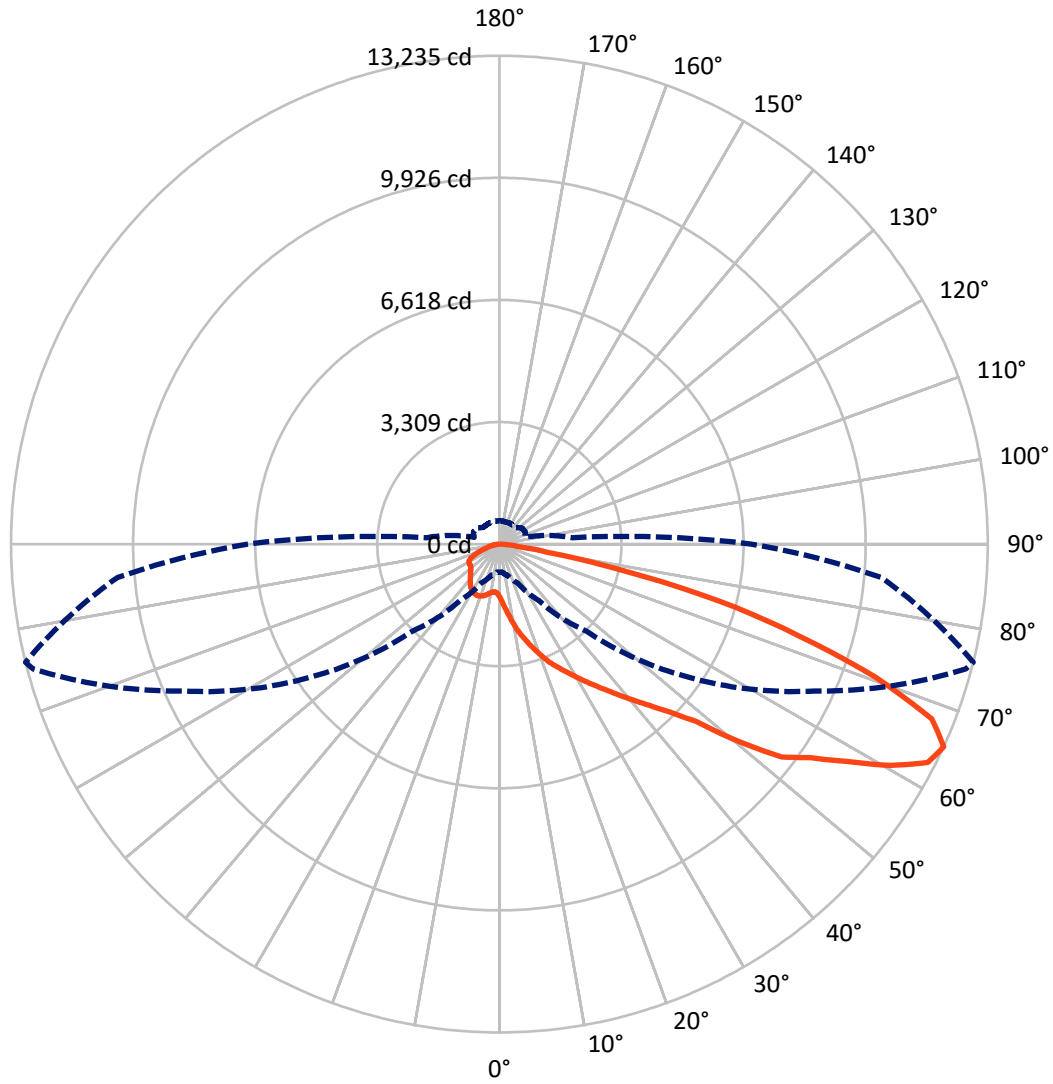
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	2523.5	0.0	2523.5
	% Fixture	16.7	0.0	16.7
<b>Street Side</b>	Lumens	12573.8	0.0	12573.8
	% Fixture	83.3	0.0	83.3
<b>Total</b>	Lumens	15097.3	0.0	15097.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.8	1.1
10°-20°	646.9	4.3
20°-30°	1260.8	8.4
30°-40°	2108.6	14.0
40°-50°	3019.1	20.0
50°-60°	3574.2	23.7
60°-70°	2972.0	19.7
70°-80°	1216.2	8.1
80°-90°	129.5	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°	15097.3	100.0
0°-180°	15097.3	100.0

**Coefficient of Utilization**



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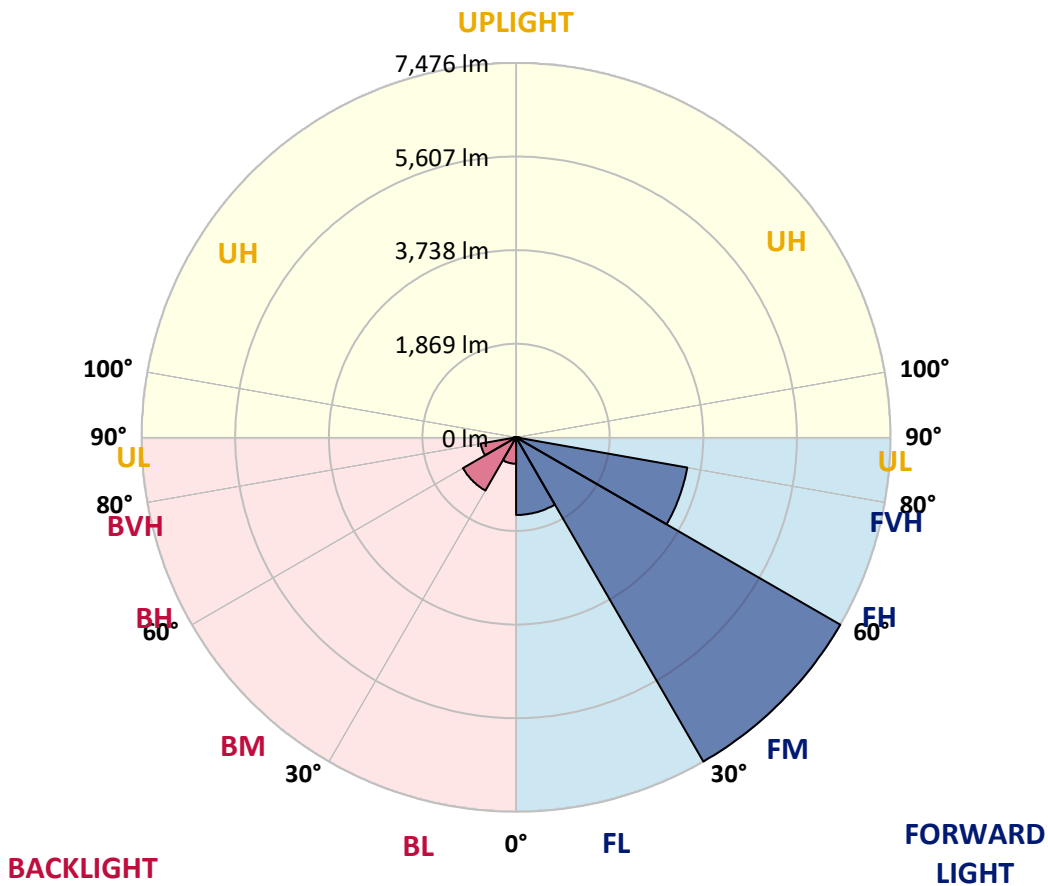
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1549.7	10.3			
FM (30°-60°)	7475.6	49.5			
FH (60°-80°)	3471.3	23.0			G2/5000
FVH (80°-90°)	77.2	0.5			G1/100
BL (0°-30°)	527.9	3.5	B2/1000		
BM (30°-60°)	1226.4	8.1	B2/2500		
BH (60°-80°)	717.0	4.7	B2/1000		G2/1000
BVH (80°-90°)	52.3	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°	1429.7	1429.7	1429.7	1429.7	1429.7	1429.7	1429.7	1429.7	1429.7	1429.7	1429.7
2.5°	2003.9	2011.3	1986.9	1978.4	1921.1	1843.6	1778.8	1681.2	1591.0	1577.2	1496.5
5°	2545.2	2513.3	2485.7	2467.7	2388.1	2300.0	2163.1	1979.4	1787.3	1764.0	1589.9
7.5°	2866.7	2861.4	2827.5	2816.9	2755.3	2667.2	2526.0	2297.9	2018.7	1980.5	1716.2
10°	3124.7	3121.5	3104.5	3114.0	3057.8	2971.8	2834.9	2599.3	2272.4	2234.2	1857.4
12.5°	3349.7	3355.0	3351.8	3386.8	3358.2	3291.3	3149.1	2890.1	2526.0	2484.7	2029.3
15°	3514.2	3518.4	3534.3	3610.8	3626.7	3612.9	3468.5	3175.6	2776.5	2717.1	2206.6
17.5°	3560.9	3569.4	3607.6	3730.7	3816.7	3874.0	3766.8	3466.4	3022.8	2958.0	2387.0
20°	3623.5	3633.1	3671.3	3799.7	3926.0	4056.5	4037.4	3761.5	3271.1	3218.1	2569.6
22.5°	3913.3	3905.8	3888.8	3950.4	4040.6	4203.0	4250.8	4044.9	3528.0	3477.0	2771.2
25°	4471.5	4457.7	4349.5	4293.2	4263.5	4362.2	4447.1	4302.8	3778.5	3702.0	2959.1
27.5°	5087.1	5079.7	4941.7	4808.0	4625.4	4583.0	4632.9	4527.8	4021.5	3944.0	3122.5
30°	5669.8	5647.5	5503.2	5335.5	5091.4	4908.8	4835.6	4748.5	4287.9	4207.3	3313.6
32.5°	6190.9	6162.3	5992.5	5806.7	5550.9	5335.5	5116.8	4983.1	4589.3	4495.9	3508.9
35°	6618.7	6590.0	6416.0	6218.5	5937.3	5778.1	5478.8	5237.8	4896.1	4801.6	3739.2
37.5°	6949.8	6923.3	6741.8	6547.6	6302.4	6176.1	5916.0	5524.4	5249.5	5150.8	3983.3
40°	7135.6	7116.5	6971.0	6817.1	6611.2	6501.9	6385.2	5886.3	5645.4	5546.7	4270.9
42.5°	7191.8	7179.1	7077.2	6997.6	6858.5	6775.8	6842.6	6311.9	6067.8	5981.9	4594.6
45°	7050.6	7050.6	7020.9	7061.3	7067.6	7066.6	7301.1	6792.7	6586.8	6492.4	5051.0
47.5°	6689.8	6713.1	6756.6	6955.1	7164.2	7339.3	7837.1	7433.8	7254.4	7176.9	5697.4
50°	6029.6	6093.3	6241.9	6629.3	7074.0	7519.8	8344.5	8381.6	8552.5	8415.6	6648.4
52.5°	5062.7	5053.2	5432.1	5984.0	6662.2	7527.2	8623.6	9218.0	9677.5	9583.1	7355.3
55°	4023.6	4007.7	4361.1	5122.1	6030.7	7242.8	8791.3	9601.1	10301.6	10216.7	7991.0
57.5°	3081.1	3061.0	3375.1	4061.8	5139.1	6638.8	8759.4	10057.5	11160.3	11116.7	8855.0
60°	2120.6	2096.2	2390.2	2990.9	4084.1	5715.4	8407.1	10292.1	12165.4	12180.2	9779.4
62.5°	1273.6	1259.8	1473.2	1939.1	2937.9	4571.3	7582.4	10149.8	12965.6	13032.5	10373.8
65°	768.4	758.9	884.1	1156.9	1863.8	3335.9	6310.9	9422.8	13081.3	13235.2	10387.6
67.5°	559.3	560.4	596.5	704.7	1086.8	2154.6	4735.8	8119.4	12478.5	12637.7	9732.7
70°	486.1	488.2	507.3	531.7	657.0	1233.3	3079.0	6409.6	10696.4	10819.6	8163.0
72.5°	432.0	432.0	444.7	457.4	513.7	751.4	1649.4	4480.0	8442.1	8475.0	6230.2
75°	380.0	376.8	383.2	389.5	445.8	525.4	802.4	3121.5	6235.5	6159.1	4026.8
77.5°	302.5	299.3	300.4	306.7	357.7	375.7	406.5	1949.7	3514.2	3316.8	1778.8
80°	215.5	213.3	225.0	240.9	264.3	230.3	254.7	943.6	1393.6	1297.0	689.9
82.5°	128.4	132.7	150.7	163.5	182.6	144.3	164.5	315.2	493.5	480.8	280.2
85°	18.0	19.1	54.1	62.6	78.5	56.3	87.0	142.2	197.4	211.2	98.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.4	25.5	56.3	57.3	24.4
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°	1429.7	1429.7	1429.7	1429.7	1429.7	1429.7	1429.7	1429.7	1429.7	1429.7	1429.7
2.5°	1455.1	1405.2	1334.1	1274.7	1224.8	1184.5	1150.5	1125.0	1117.6	1107.0	1107.0
5°	1508.2	1418.0	1290.6	1200.4	1148.4	1117.6	1096.4	1085.8	1080.5	1074.1	1070.9
7.5°	1581.4	1455.1	1283.2	1191.9	1151.6	1132.5	1118.7	1112.3	1108.1	1101.7	1101.7
10°	1682.3	1510.3	1306.5	1221.6	1189.8	1170.7	1154.8	1144.2	1134.6	1125.0	1122.9
12.5°	1791.6	1582.5	1349.0	1262.0	1228.0	1204.6	1182.4	1166.4	1154.8	1143.1	1139.9
15°	1912.6	1656.8	1394.6	1301.2	1258.8	1226.9	1200.4	1176.0	1160.1	1143.1	1141.0
17.5°	2031.5	1732.1	1432.8	1327.8	1273.6	1234.4	1196.2	1164.3	1144.2	1125.0	1119.7
20°	2173.7	1807.5	1459.4	1335.2	1270.5	1218.4	1172.8	1132.5	1110.2	1087.9	1084.7
22.5°	2304.2	1877.6	1472.1	1324.6	1246.0	1184.5	1131.4	1087.9	1063.5	1041.2	1037.0
25°	2430.5	1939.1	1466.8	1299.1	1208.9	1137.8	1082.6	1039.1	1015.7	992.4	986.0
27.5°	2552.6	1980.5	1445.6	1259.8	1162.2	1085.8	1032.7	993.4	973.3	953.1	944.6
30°	2672.5	2018.7	1412.7	1208.9	1102.8	1031.6	988.1	960.5	940.4	919.1	912.8
32.5°	2793.5	2046.3	1362.8	1149.5	1042.3	983.9	957.4	937.2	916.0	894.7	888.4
35°	2915.6	2058.0	1302.3	1081.5	991.3	953.1	943.6	920.2	891.5	866.1	857.6
37.5°	3061.0	2068.6	1226.9	1014.7	946.7	938.2	936.1	901.1	867.1	832.1	822.6
40°	3236.1	2082.4	1149.5	954.2	910.7	932.9	924.4	876.7	808.8	774.8	764.2
42.5°	3450.5	2107.9	1068.8	899.0	884.1	912.8	903.2	817.3	771.6	752.5	747.2
45°	3765.7	2201.3	988.1	855.5	864.0	884.1	869.3	782.2	764.2	751.4	745.1
47.5°	4327.2	2344.6	918.1	822.6	848.0	858.6	801.3	772.7	758.9	741.9	734.5
50°	4910.9	2407.2	861.8	802.4	830.0	835.3	764.2	759.9	750.4	732.3	724.9
52.5°	5305.8	2398.7	827.9	795.0	815.1	795.0	747.2	746.1	739.8	718.5	710.1
55°	5751.5	2413.5	813.0	797.1	808.8	727.0	726.0	729.2	726.0	702.6	698.4
57.5°	6353.3	2459.2	805.6	804.5	804.5	694.1	705.8	710.1	703.7	693.1	689.9
60°	6931.8	2462.4	791.8	813.0	801.3	674.0	682.5	686.7	679.3	677.2	676.1
62.5°	7149.4	2309.5	761.0	806.6	788.6	651.7	658.0	660.2	652.7	658.0	657.0
65°	6825.6	1984.8	710.1	775.9	749.3	631.5	627.3	632.6	619.8	633.6	634.7
67.5°	6060.4	1577.2	632.6	717.5	694.1	609.2	600.7	600.7	579.5	600.7	599.7
70°	4886.5	1114.4	519.0	624.1	633.6	582.7	578.4	554.0	520.1	551.9	548.7
72.5°	3704.2	800.3	408.6	493.5	545.5	545.5	546.6	505.2	465.9	480.8	468.1
75°	2346.7	563.6	326.9	377.8	427.7	478.7	503.1	426.7	391.6	385.3	378.9
77.5°	1057.1	370.4	254.7	289.8	303.6	377.8	459.6	367.2	319.5	305.7	301.4
80°	442.6	230.3	181.5	204.8	186.8	317.3	405.4	285.5	234.6	215.5	201.7
82.5°	194.2	136.9	115.7	110.4	116.8	235.6	302.5	190.0	146.5	198.5	200.6
85°	81.7	72.2	59.4	54.1	47.8	90.2	142.2	74.3	91.3	52.0	42.5
87.5°	19.1	21.2	15.9	10.6	6.4	1.1	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)