

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: P629667

Luminaire Tested: GWS-SA1C-727-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P629667  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1C-727-U-AFL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS  
Light Source: (16) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

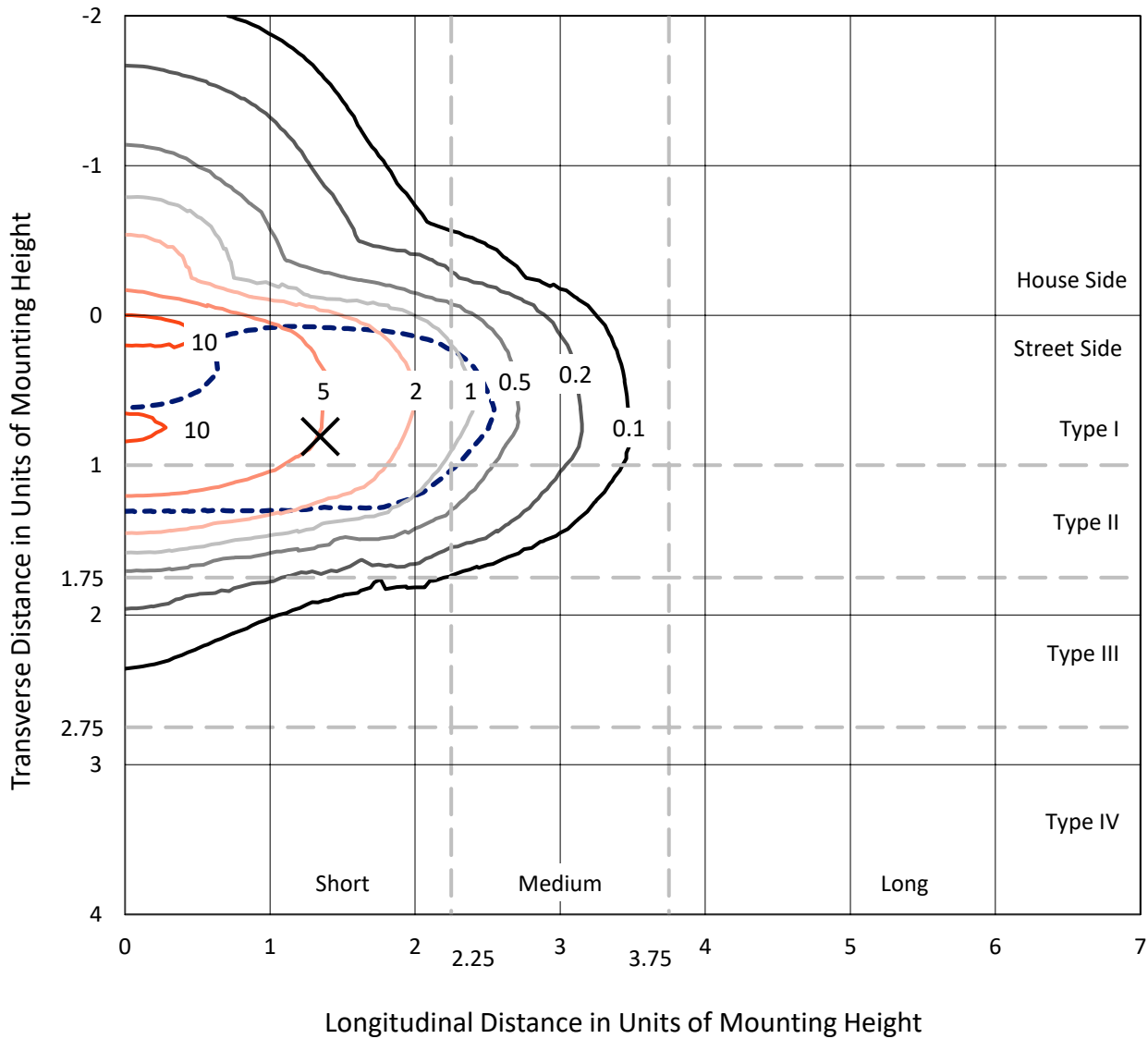
Lumens per Lamp: N/A  
Luminaire Lumens: 4093.3 lumens  
Efficiency: N/A  
Efficacy: 120.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 34.1  
Input Voltage (V): 120  
Input Current (Ain): 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

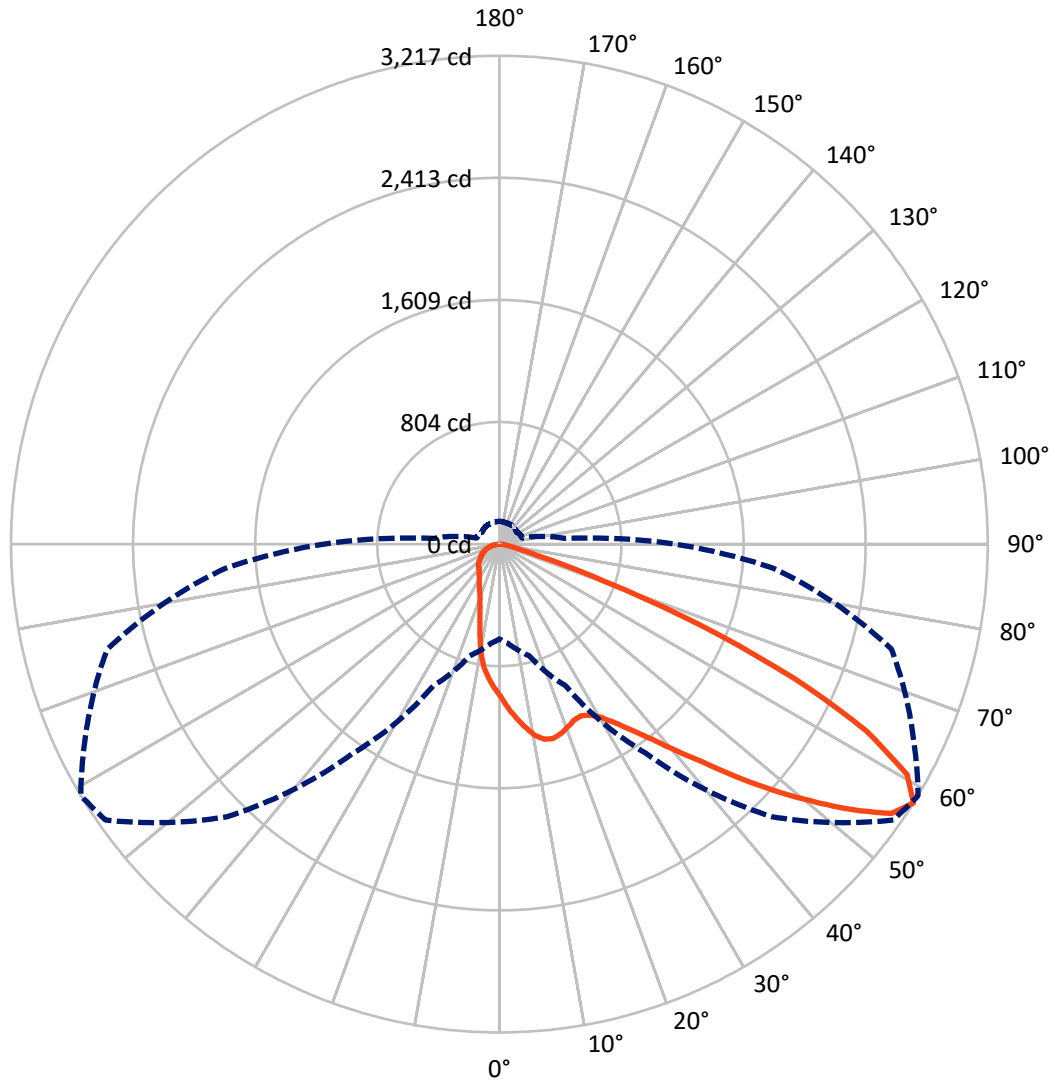
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	635.3	0.0	635.3
	% Fixture	15.5	0.0	15.5
<b>Street Side</b>	Lumens	3458.0	0.0	3458.0
	% Fixture	84.5	0.0	84.5
<b>Total</b>	Lumens	4093.3	0.0	4093.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.3	2.3
10°-20°	236.4	5.8
20°-30°	383.2	9.4
30°-40°	616.5	15.1
40°-50°	957.4	23.4
50°-60°	1031.2	25.2
60°-70°	598.5	14.6
70°-80°	156.2	3.8
80°-90°	20.6	0.5
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°	4093.3	100.0
0°-180°	4093.3	100.0

**Coefficient of Utilization**



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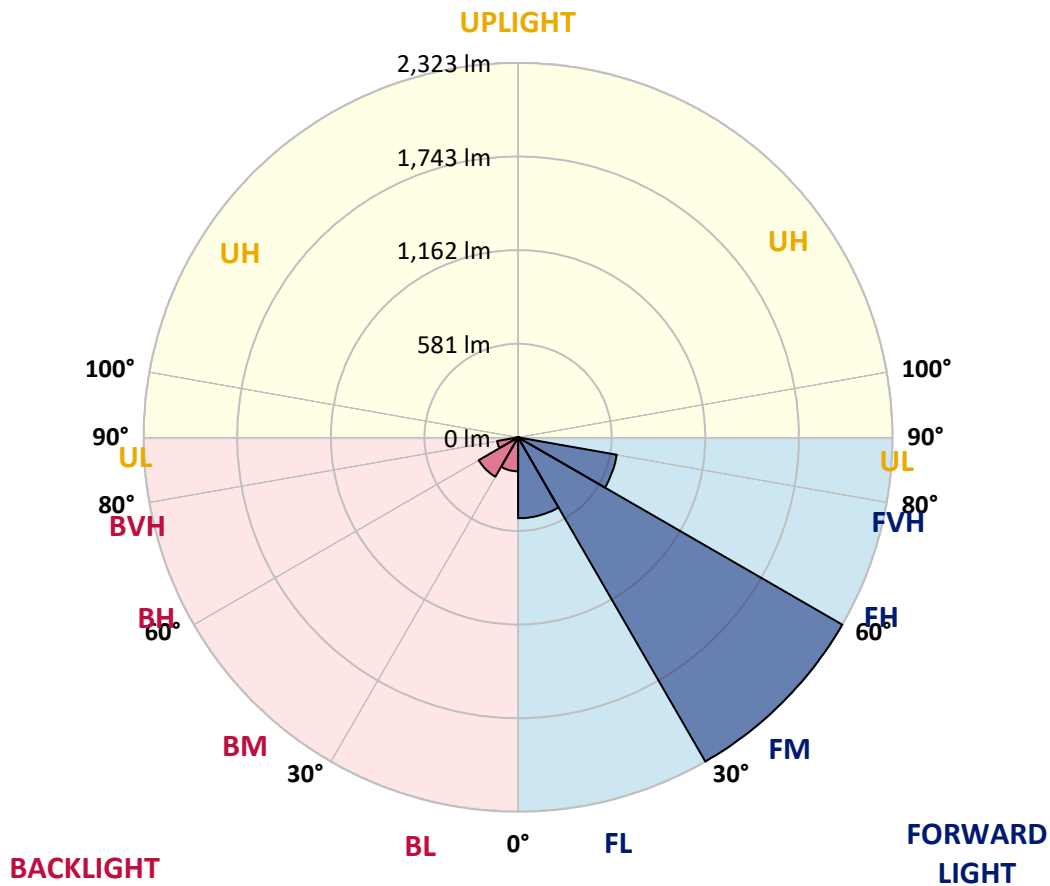
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	502.2	12.3			
FM (30°-60°)	2323.4	56.8			
FH (60°-80°)	622.6	15.2			G0/660
FVH (80°-90°)	9.9	0.2			G0/10
BL (0°-30°)	210.8	5.1	B1/500		
BM (30°-60°)	281.6	6.9	B1/1000		
BH (60°-80°)	132.1	3.2	B1/500		G1/500
BVH (80°-90°)	10.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1004.8	1004.8	1004.8	1004.8	1004.8	1004.8	1004.8	1004.8	1004.8	1004.8	1004.8
2.5°	1139.7	1130.2	1136.8	1125.0	1120.1	1107.1	1090.4	1079.2	1061.9	1039.4	1019.8
5°	1252.9	1246.3	1247.7	1235.1	1223.8	1202.2	1167.9	1148.9	1119.5	1074.3	1032.2
7.5°	1249.5	1257.3	1261.6	1272.5	1275.7	1273.7	1242.8	1216.3	1184.1	1116.1	1052.7
10°	1120.1	1134.8	1148.0	1185.5	1231.0	1288.7	1295.9	1280.0	1247.5	1169.4	1077.2
12.5°	979.2	990.4	1002.2	1047.2	1116.9	1232.2	1310.3	1320.1	1307.1	1222.1	1104.8
15°	910.0	915.2	926.4	956.1	1011.7	1139.7	1285.2	1328.1	1351.5	1278.0	1135.9
17.5°	907.1	909.4	914.9	930.8	969.4	1068.2	1240.0	1312.0	1386.4	1337.1	1172.2
20°	966.8	960.7	957.3	957.0	976.0	1044.3	1196.2	1286.1	1402.8	1397.6	1211.1
22.5°	1049.5	1051.5	1044.0	1025.6	1023.3	1061.3	1174.3	1259.8	1407.7	1451.2	1247.2
25°	1166.8	1176.9	1154.7	1119.5	1102.2	1110.6	1187.8	1251.8	1407.1	1495.9	1269.6
27.5°	1303.6	1311.4	1289.0	1242.8	1207.1	1186.9	1228.1	1275.7	1412.0	1534.5	1283.2
30°	1459.5	1462.1	1431.3	1382.9	1330.7	1287.5	1295.3	1325.0	1437.1	1585.2	1299.0
32.5°	1650.0	1661.0	1614.3	1537.6	1464.7	1409.4	1385.5	1404.5	1491.2	1645.1	1323.5
35°	1891.8	1895.5	1836.2	1726.4	1623.2	1546.6	1496.4	1506.5	1573.7	1729.0	1360.4
37.5°	2119.7	2123.5	2060.4	1958.4	1810.8	1705.9	1633.3	1628.7	1679.1	1847.4	1420.6
40°	2264.4	2275.0	2246.8	2182.8	2041.9	1900.4	1801.9	1786.0	1817.4	1992.4	1504.5
42.5°	2342.2	2346.8	2346.2	2354.6	2270.7	2130.1	1992.1	1960.4	1981.4	2148.8	1589.2
45°	2342.8	2354.3	2385.1	2465.5	2469.3	2381.7	2232.4	2182.8	2163.5	2306.5	1677.7
47.5°	2237.9	2250.3	2335.0	2493.2	2609.9	2629.8	2520.3	2420.9	2339.6	2442.2	1750.3
50°	1920.3	1951.4	2112.8	2392.6	2637.6	2828.6	2794.9	2660.0	2496.1	2547.1	1795.8
52.5°	1644.5	1643.4	1742.8	2108.5	2522.0	2916.2	3060.6	2906.1	2650.8	2613.6	1807.4
55°	1204.2	1210.9	1312.6	1612.6	2213.7	2831.5	3206.7	3132.6	2828.3	2649.1	1802.7
57.5°	624.4	657.3	761.6	1029.0	1682.0	2539.9	3167.8	3217.0	3008.7	2674.1	1808.8
60°	315.5	309.2	346.7	491.3	974.6	1983.7	2928.0	3085.1	3041.3	2693.7	1812.5
62.5°	210.6	208.9	198.5	227.6	398.2	1174.8	2496.1	2716.2	2815.1	2647.6	1764.7
65°	182.4	178.9	159.9	158.8	193.4	487.3	1829.5	2135.3	2326.6	2442.8	1650.3
67.5°	164.3	159.1	139.8	130.2	138.9	214.1	1031.0	1432.2	1718.0	2065.8	1399.6
70°	146.7	144.1	124.8	110.9	110.1	130.5	379.8	739.1	1051.2	1409.4	1023.3
72.5°	131.4	126.8	110.4	97.1	90.5	92.5	164.8	284.7	544.1	879.2	612.1
75°	113.8	110.4	96.0	82.7	74.6	67.7	100.6	131.7	248.1	417.8	289.0
77.5°	87.9	85.6	75.8	65.7	61.1	50.4	61.1	83.0	114.7	176.1	150.4
80°	51.0	52.4	56.5	51.3	45.0	36.0	39.8	47.8	68.9	95.4	85.3
82.5°	25.6	27.4	36.6	29.7	26.8	21.0	23.6	28.2	36.0	52.7	33.4
85°	2.0	2.0	6.6	7.5	9.2	7.5	9.5	11.5	16.4	21.0	11.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.4	2.6	4.9	3.2
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°	1004.8	1004.8	1004.8	1004.8	1004.8	1004.8	1004.8	1004.8	1004.8	1004.8	1004.8
2.5°	1006.6	991.9	974.3	959.9	937.7	925.9	910.9	892.4	884.9	881.5	879.5
5°	1008.6	982.6	945.2	910.6	872.3	842.0	808.3	773.1	753.0	748.1	744.6
7.5°	1016.1	979.8	920.1	863.0	791.9	725.9	661.6	597.9	565.4	553.0	551.8
10°	1026.4	978.6	894.7	799.9	679.8	575.5	500.3	450.4	429.4	422.4	420.1
12.5°	1039.4	977.7	861.3	712.3	550.4	451.8	408.9	400.8	403.7	403.1	403.1
15°	1055.8	978.9	821.0	613.2	445.2	392.2	393.1	402.6	411.5	412.9	412.9
17.5°	1073.7	977.7	762.5	513.8	382.1	378.1	391.3	404.6	412.6	413.8	413.8
20°	1093.0	972.3	688.7	420.1	354.4	369.1	383.5	393.9	398.8	400.0	400.0
22.5°	1104.5	956.7	608.6	355.6	336.9	355.0	364.5	375.2	375.8	366.5	366.3
25°	1102.8	927.6	517.3	314.1	318.1	334.0	346.1	338.6	329.4	324.2	323.3
27.5°	1091.8	883.8	424.2	282.7	295.9	313.8	310.1	303.7	301.4	295.7	295.1
30°	1078.0	829.9	340.6	258.2	272.9	289.3	283.6	283.0	280.7	274.3	274.3
32.5°	1064.8	774.3	277.5	240.0	258.2	259.3	267.4	268.0	266.8	255.9	254.7
35°	1061.0	718.7	234.9	225.6	243.8	243.2	254.7	254.4	234.6	219.3	219.0
37.5°	1072.3	662.2	209.5	213.8	223.9	231.4	240.6	223.9	217.3	208.1	207.5
40°	1096.2	610.0	196.5	206.9	211.2	222.2	207.8	208.9	207.2	200.3	199.4
42.5°	1127.9	565.7	189.3	204.6	204.0	206.9	191.1	195.7	198.3	193.1	192.2
45°	1158.4	527.0	185.6	196.0	198.8	182.1	178.9	183.3	187.3	185.3	184.4
47.5°	1180.9	493.6	183.6	184.1	192.2	173.8	168.6	170.6	175.5	176.4	176.1
50°	1187.8	465.1	181.3	174.3	172.6	165.4	161.4	160.8	166.6	170.6	171.2
52.5°	1174.6	439.7	175.2	165.7	157.3	158.5	157.0	154.2	159.9	165.4	166.0
55°	1155.0	425.3	165.7	157.3	147.5	152.1	152.7	150.1	153.9	157.6	157.6
57.5°	1156.4	433.7	156.5	149.6	138.9	144.9	148.1	147.0	147.0	149.8	150.1
60°	1165.9	445.8	150.4	139.8	130.2	136.6	143.8	142.6	140.0	143.8	143.8
62.5°	1138.5	429.7	146.4	130.2	121.0	128.5	137.2	136.6	133.7	139.8	140.3
65°	1057.8	386.4	141.8	118.4	111.8	120.5	127.9	130.0	127.4	135.4	136.9
67.5°	886.7	325.0	132.8	107.2	102.6	110.7	117.9	120.7	118.7	128.2	129.4
70°	661.0	263.1	118.7	94.8	91.3	98.6	105.2	106.3	106.6	117.9	119.0
72.5°	421.6	204.6	100.0	81.0	78.4	83.9	88.8	93.4	95.4	106.0	105.8
75°	235.1	152.1	80.4	68.6	64.0	68.3	74.1	79.5	85.3	100.9	102.6
77.5°	135.4	106.9	63.7	55.0	49.6	54.2	59.1	66.9	84.1	97.7	96.0
80°	76.4	69.4	48.1	40.3	36.9	40.3	44.1	58.8	66.3	72.0	72.9
82.5°	35.7	38.9	32.9	24.8	24.8	27.1	30.5	45.5	50.1	40.9	35.7
85°	13.0	17.6	16.1	12.7	11.2	11.0	19.0	25.9	16.1	14.4	12.4
87.5°	3.5	4.9	4.6	3.2	1.7	1.4	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)