

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: P631933

Luminaire Tested: GWS-SA2B-760-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631933
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-760-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6686.8 lumens
Efficiency: N/A
Efficacy: 144.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

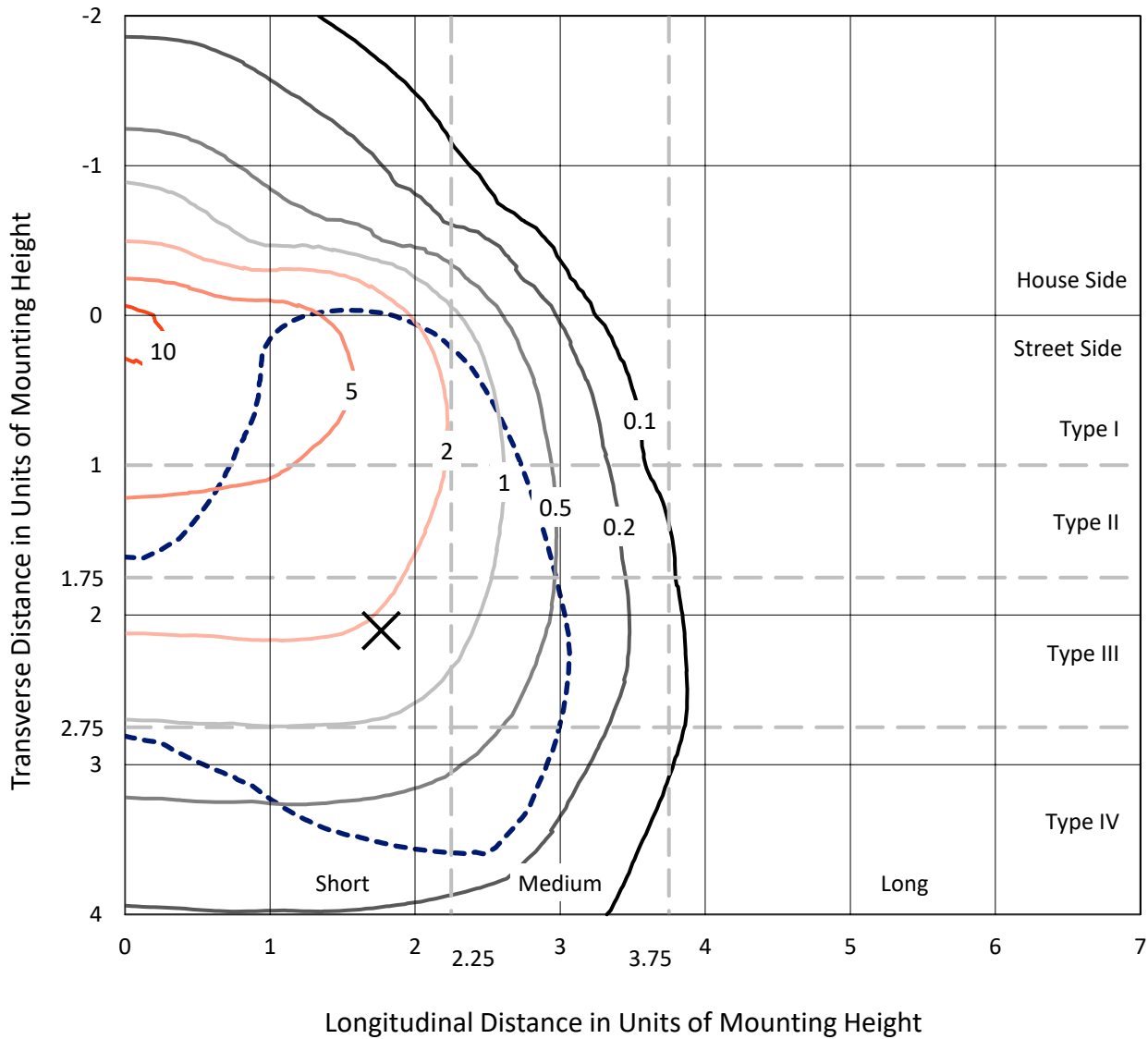
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P631933
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Iso-Footcandle Lines of Horizontal Illumination

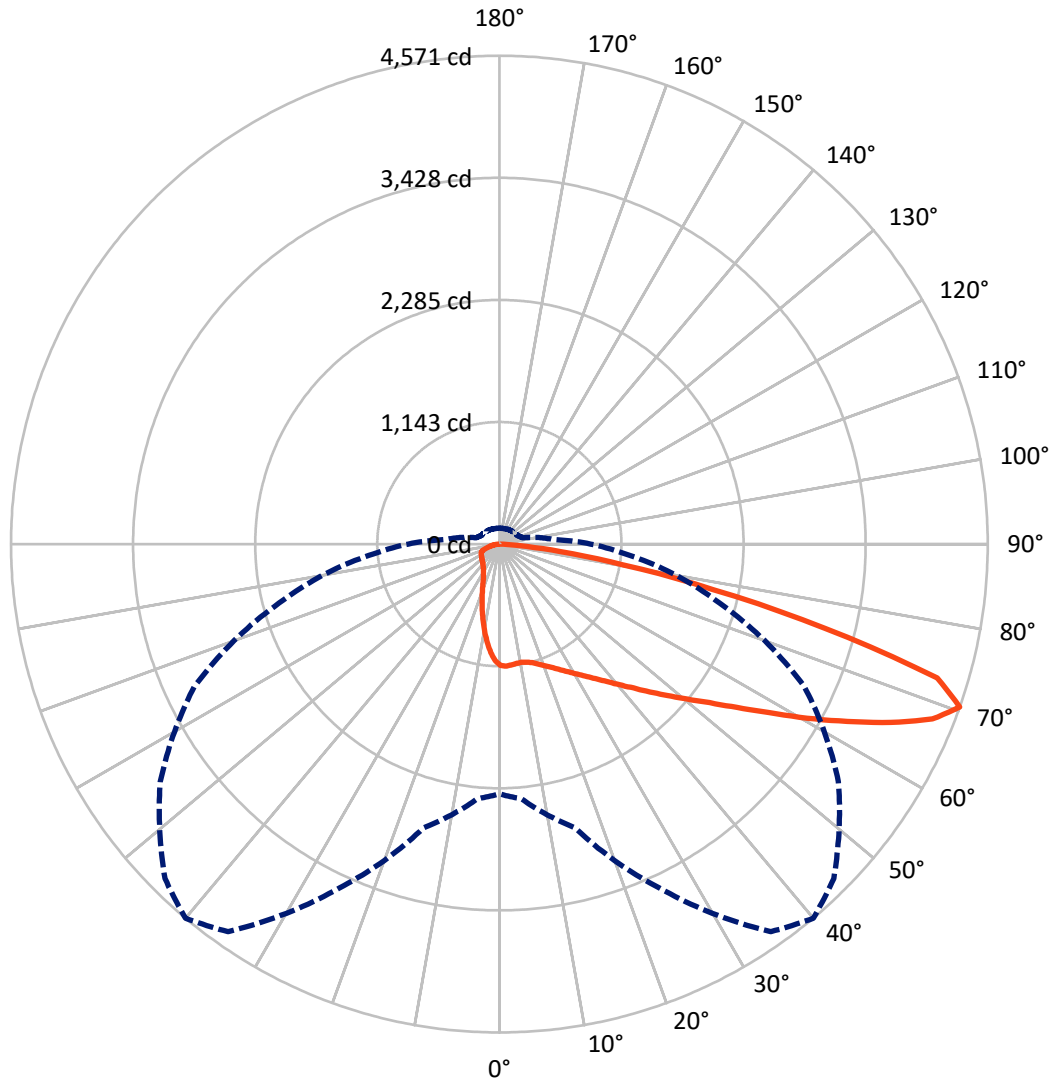
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P631933
CATALOG NUMBER: GWS-SA2B-760-U-SL4-W

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1029.9	0.0	1029.9
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	5656.9	0.0	5656.9
	% Fixture	84.6	0.0	84.6
Total	Lumens	6686.8	0.0	6686.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.3	1.5
10°-20°	261.5	3.9
20°-30°	410.6	6.1
30°-40°	617.3	9.2
40°-50°	952.8	14.2
50°-60°	1415.0	21.2
60°-70°	1783.5	26.7
70°-80°	1031.4	15.4
80°-90°	114.5	1.7
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°	6686.8	100.0
0°-180°	6686.8	100.0

Coefficient of Utilization



REPORT NUMBER: P631933

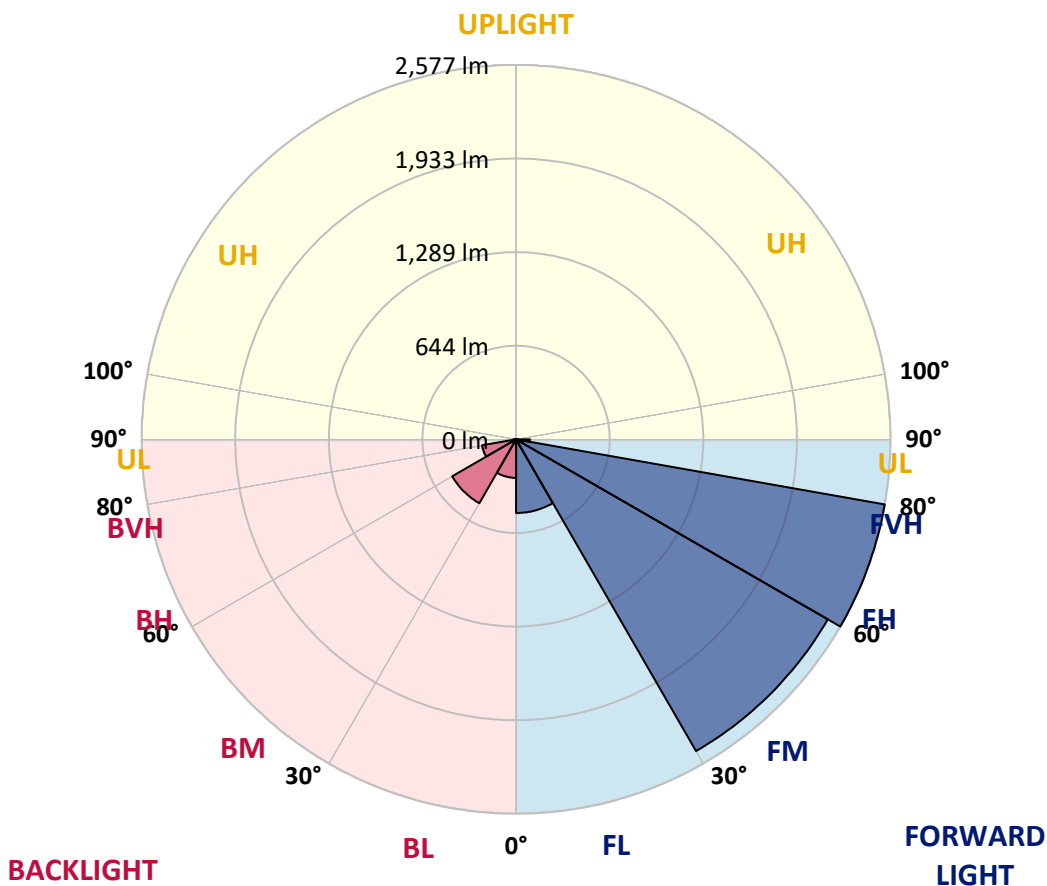
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	506.9	7.6			
FM (30°-60°)	2477.4	37.0			
FH (60°-80°)	2577.2	38.5			G2/5000
FVH (80°-90°)	95.3	1.4			G1/100
BL (0°-30°)	265.4	4.0	B1/500		
BM (30°-60°)	507.7	7.6	B1/1000		
BH (60°-80°)	237.7	3.6	B1/500		G1/500
BVH (80°-90°)	19.1	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-G2

Type IV Short





REPORT NUMBER: P631933
 CATALOG NUMBER: GWS-SA2B-760-U-SL4-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1135.5	1135.5	1135.5	1135.5	1135.5	1135.5	1135.5	1135.5	1135.5	1135.5	1135.5
2.5°	1142.5	1144.5	1146.0	1148.0	1147.0	1144.0	1146.5	1146.5	1141.0	1135.0	1129.5
5°	1144.0	1146.5	1146.0	1145.5	1141.5	1136.5	1136.5	1133.5	1124.0	1114.5	1105.5
7.5°	1141.0	1140.5	1140.0	1138.5	1134.0	1128.5	1127.5	1121.5	1109.0	1096.1	1083.1
10°	1127.5	1127.0	1128.5	1132.0	1131.0	1126.0	1126.0	1120.5	1106.0	1090.1	1073.1
12.5°	1116.5	1116.5	1122.5	1132.0	1135.5	1133.5	1134.0	1130.0	1113.5	1094.6	1074.6
15°	1118.0	1118.5	1131.5	1147.0	1153.5	1152.0	1152.5	1148.0	1129.5	1110.5	1083.6
17.5°	1128.0	1130.5	1153.0	1174.4	1182.9	1180.9	1177.4	1169.9	1149.0	1127.5	1094.6
20°	1149.0	1153.0	1181.9	1208.9	1218.8	1214.4	1208.4	1193.4	1170.4	1147.0	1106.5
22.5°	1190.4	1192.9	1224.8	1251.3	1259.3	1253.8	1241.8	1220.3	1193.9	1169.4	1121.0
25°	1248.8	1251.8	1282.2	1306.7	1304.7	1298.2	1281.7	1255.3	1223.8	1197.9	1142.0
27.5°	1318.2	1323.2	1353.1	1372.6	1359.6	1350.1	1331.6	1299.7	1264.3	1240.8	1173.9
30°	1394.0	1396.0	1421.5	1441.0	1421.0	1408.0	1385.6	1351.1	1319.2	1301.7	1221.8
32.5°	1467.4	1469.4	1491.4	1502.3	1481.4	1471.9	1452.4	1416.0	1393.5	1384.1	1293.2
35°	1544.8	1544.3	1562.2	1571.7	1550.3	1546.3	1526.3	1498.4	1494.4	1506.8	1397.5
37.5°	1622.1	1617.6	1627.1	1639.6	1627.6	1631.6	1618.6	1609.2	1624.6	1657.1	1536.3
40°	1684.0	1684.0	1694.0	1709.5	1713.5	1730.9	1723.5	1735.9	1785.8	1863.2	1708.0
42.5°	1738.9	1739.4	1760.4	1784.3	1813.3	1840.3	1846.2	1878.7	1982.0	2103.3	1923.6
45°	1796.3	1796.8	1825.3	1860.2	1921.6	1973.0	1985.0	2057.9	2205.6	2353.3	2157.7
47.5°	1862.7	1857.2	1896.7	1955.0	2042.4	2116.3	2147.2	2250.5	2437.2	2618.9	2378.3
50°	1937.6	1926.1	1970.0	2070.8	2178.7	2280.0	2331.9	2450.2	2685.8	2863.9	2585.9
52.5°	2021.9	2015.4	2061.4	2184.1	2348.9	2465.6	2536.0	2691.2	2927.3	3108.0	2750.6
55°	2126.7	2111.3	2177.7	2333.9	2548.5	2697.2	2780.6	2929.8	3191.4	3329.6	2876.4
57.5°	2241.5	2224.6	2313.4	2521.0	2808.0	2971.3	3075.6	3198.4	3439.9	3499.3	2950.3
60°	2365.3	2359.8	2465.1	2740.7	3117.5	3307.2	3382.5	3493.8	3656.0	3597.6	2931.8
62.5°	2478.6	2476.6	2629.9	2978.7	3445.4	3654.0	3713.9	3743.4	3811.8	3591.2	2785.1
65°	2597.9	2614.9	2822.0	3254.8	3821.3	4025.9	4050.8	3976.0	3864.2	3421.0	2484.6
67.5°	2612.9	2645.8	2942.8	3513.3	4177.6	4370.8	4350.8	4064.3	3709.5	2947.3	1947.6
70°	2336.9	2394.3	2750.1	3552.7	4428.7	4570.9	4426.7	3874.2	3147.9	2135.2	1224.8
72.5°	1952.6	2002.0	2316.4	3029.7	4104.8	4285.9	4090.8	3279.2	2224.6	1224.8	623.9
75°	1519.8	1577.2	1867.2	2408.2	3073.1	3145.4	3047.6	2287.0	1222.8	505.1	283.5
77.5°	927.4	968.8	1194.4	1631.6	2150.2	2041.9	1730.4	1282.2	536.6	242.1	175.2
80°	410.3	435.7	588.5	876.5	1242.3	1174.4	925.9	547.5	293.5	153.7	122.3
82.5°	220.1	236.6	290.0	346.9	545.5	570.5	462.7	315.4	157.7	87.8	69.9
85°	96.8	106.3	131.8	125.8	179.2	176.2	177.7	216.6	75.4	40.4	45.4
87.5°	0.0	0.0	0.0	0.0	0.5	0.5	5.5	28.9	7.5	12.0	10.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P631933
 CATALOG NUMBER: GWS-SA2B-760-U-SL4-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1135.5	1135.5	1135.5	1135.5	1135.5	1135.5	1135.5	1135.5	1135.5	1135.5	1135.5
2.5°	1123.5	1114.5	1112.0	1109.0	1103.6	1094.1	1087.1	1079.1	1075.6	1071.6	1072.1
5°	1095.6	1084.6	1074.1	1060.6	1043.7	1024.7	1011.7	996.7	988.8	981.3	983.3
7.5°	1071.6	1054.6	1033.2	1004.7	974.3	940.3	912.9	891.4	877.0	867.0	872.0
10°	1056.6	1036.7	999.2	952.8	901.4	849.5	810.1	773.1	750.2	732.2	731.2
12.5°	1053.6	1027.7	973.3	905.9	831.5	762.2	704.3	654.3	623.9	601.4	609.9
15°	1056.6	1023.7	950.8	862.5	768.6	674.8	602.9	545.5	509.1	488.6	487.1
17.5°	1060.1	1019.7	925.4	815.6	702.8	595.4	512.1	451.2	413.8	393.3	393.8
20°	1063.1	1013.7	895.4	764.2	635.9	521.6	435.2	377.3	343.9	328.9	331.4
22.5°	1068.1	1007.7	863.5	709.2	567.5	450.2	374.3	327.4	307.5	297.5	298.0
25°	1077.6	1004.2	830.5	649.4	500.1	393.3	332.4	301.0	288.5	282.5	282.0
27.5°	1097.1	1007.2	796.1	591.5	439.2	349.9	305.5	285.0	276.5	272.5	272.0
30°	1129.5	1019.2	766.1	532.6	386.8	315.9	287.0	274.5	269.5	266.0	265.5
32.5°	1178.9	1041.7	733.7	477.7	344.4	291.0	272.5	266.0	262.5	260.5	260.5
35°	1253.8	1082.6	701.8	429.7	311.5	271.5	261.0	258.5	255.5	254.6	255.5
37.5°	1361.6	1148.0	672.8	387.8	288.0	256.5	248.6	249.6	247.1	248.6	250.1
40°	1498.4	1235.3	648.4	353.4	270.5	245.6	237.6	241.1	239.6	241.1	243.6
42.5°	1671.5	1343.6	629.9	326.4	258.0	236.6	229.1	232.6	231.6	233.6	236.1
45°	1864.7	1486.4	621.4	307.5	249.1	230.1	222.1	224.6	223.6	225.1	227.6
47.5°	2049.9	1616.1	628.9	296.5	241.6	224.6	216.1	217.1	216.6	216.1	217.6
50°	2209.6	1719.5	650.4	293.0	236.6	219.1	211.1	211.6	210.1	207.1	208.1
52.5°	2339.9	1802.3	663.3	293.0	234.1	213.1	205.6	206.1	203.1	199.1	199.6
55°	2425.7	1835.8	652.8	292.5	233.1	208.1	200.1	200.6	197.7	192.7	193.2
57.5°	2450.2	1803.3	608.9	287.0	232.1	204.1	194.7	195.7	193.7	188.2	188.2
60°	2381.8	1684.5	528.6	274.5	229.6	201.6	190.7	192.2	191.2	185.7	185.7
62.5°	2202.6	1473.4	432.7	255.5	222.6	198.6	187.2	190.2	192.7	189.7	189.2
65°	1867.2	1180.4	351.9	234.6	213.6	193.7	182.2	189.7	195.2	199.1	199.1
67.5°	1401.0	845.0	287.0	212.6	200.1	183.7	175.7	182.7	186.7	189.2	190.7
70°	854.0	497.1	226.1	187.2	180.7	168.7	162.7	155.7	150.2	149.2	149.7
72.5°	417.8	284.5	183.7	159.2	154.2	143.2	129.8	126.8	124.3	122.8	122.3
75°	230.1	198.2	151.7	132.3	123.3	109.8	106.8	101.8	100.8	98.8	99.3
77.5°	162.7	156.2	125.3	107.3	93.8	86.8	88.3	84.9	84.9	83.4	82.9
80°	122.3	122.8	96.3	78.4	69.4	66.9	68.4	68.4	67.4	66.9	66.4
82.5°	77.4	87.3	64.9	50.4	49.4	49.9	49.4	48.9	49.9	48.4	47.9
85°	53.4	62.9	39.4	29.9	29.9	29.4	30.4	29.9	30.9	29.4	29.4
87.5°	12.0	28.0	14.5	9.0	9.5	9.0	9.5	10.0	11.0	11.5	11.5
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)