

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: P631793

Luminaire Tested: GWS-SA2B-735-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631793
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-735-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6919.6 lumens
Efficiency: N/A
Efficacy: 149.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

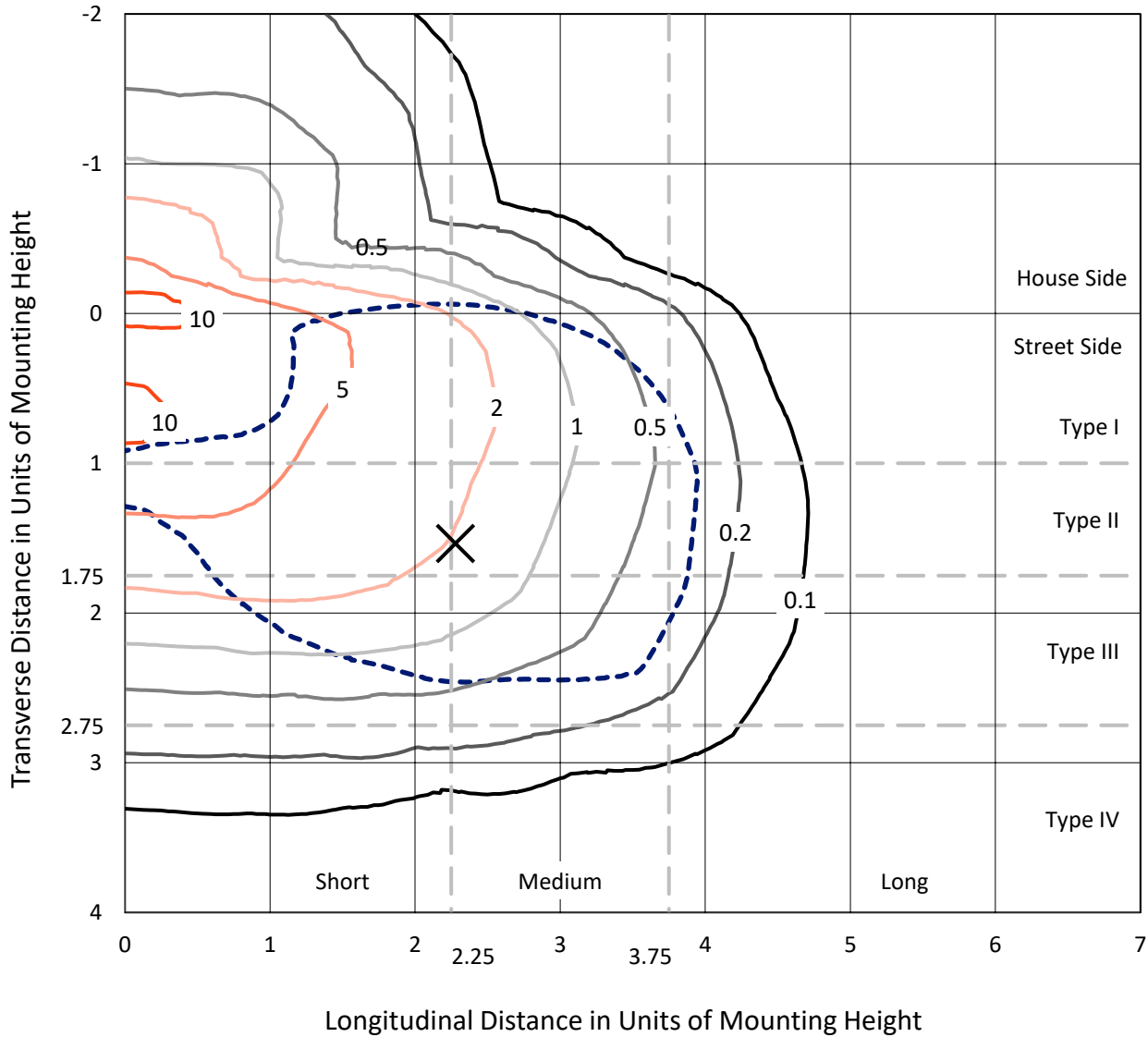
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

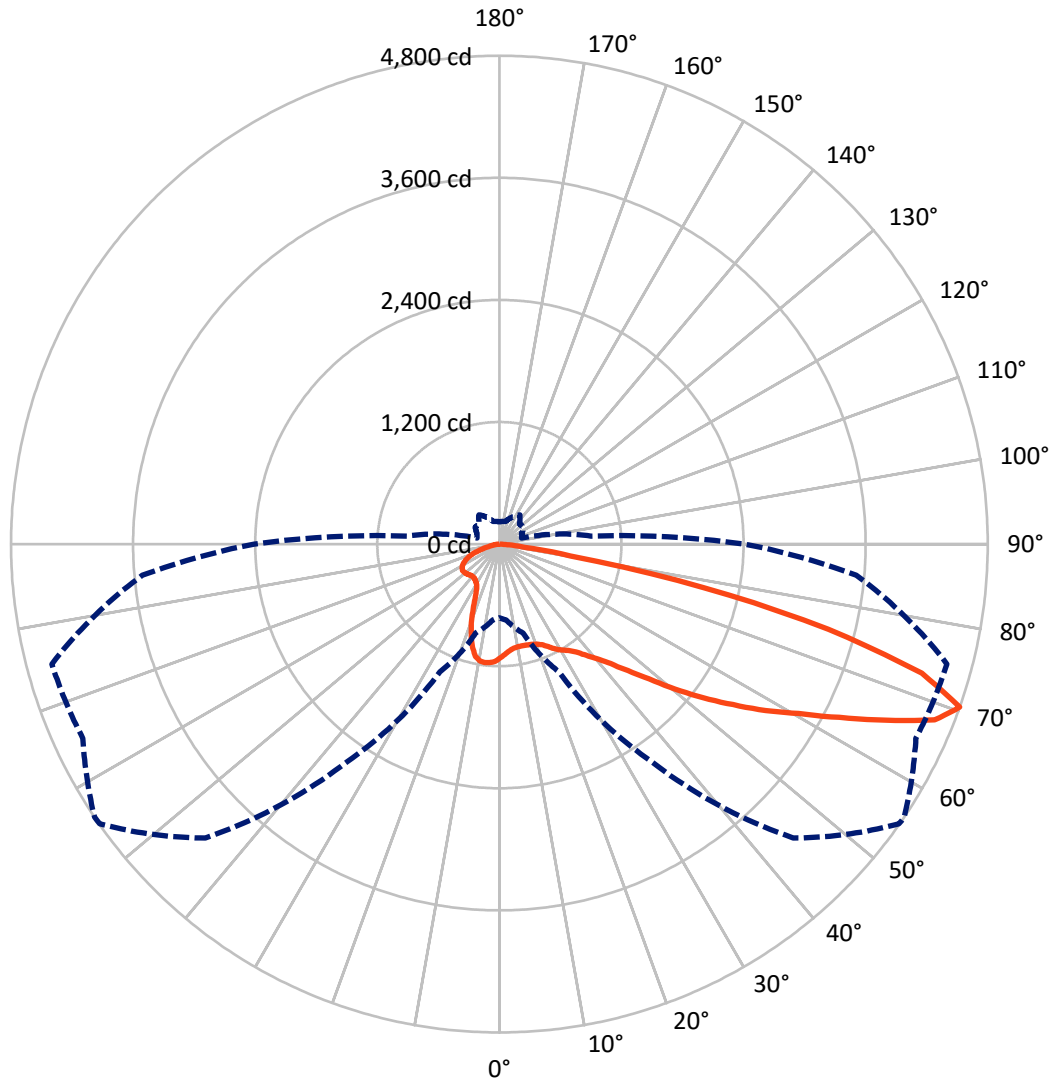
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1330.3	0.0	1330.3
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	5589.3	0.0	5589.3
	% Fixture	80.8	0.0	80.8
Total	Lumens	6919.6	0.0	6919.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.4	1.5
10°-20°	280.1	4.0
20°-30°	463.0	6.7
30°-40°	692.3	10.0
40°-50°	1030.2	14.9
50°-60°	1464.6	21.2
60°-70°	1814.0	26.2
70°-80°	1001.6	14.5
80°-90°	70.5	1.0
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°	6919.6	100.0
0°-180°	6919.6	100.0

Coefficient of Utilization



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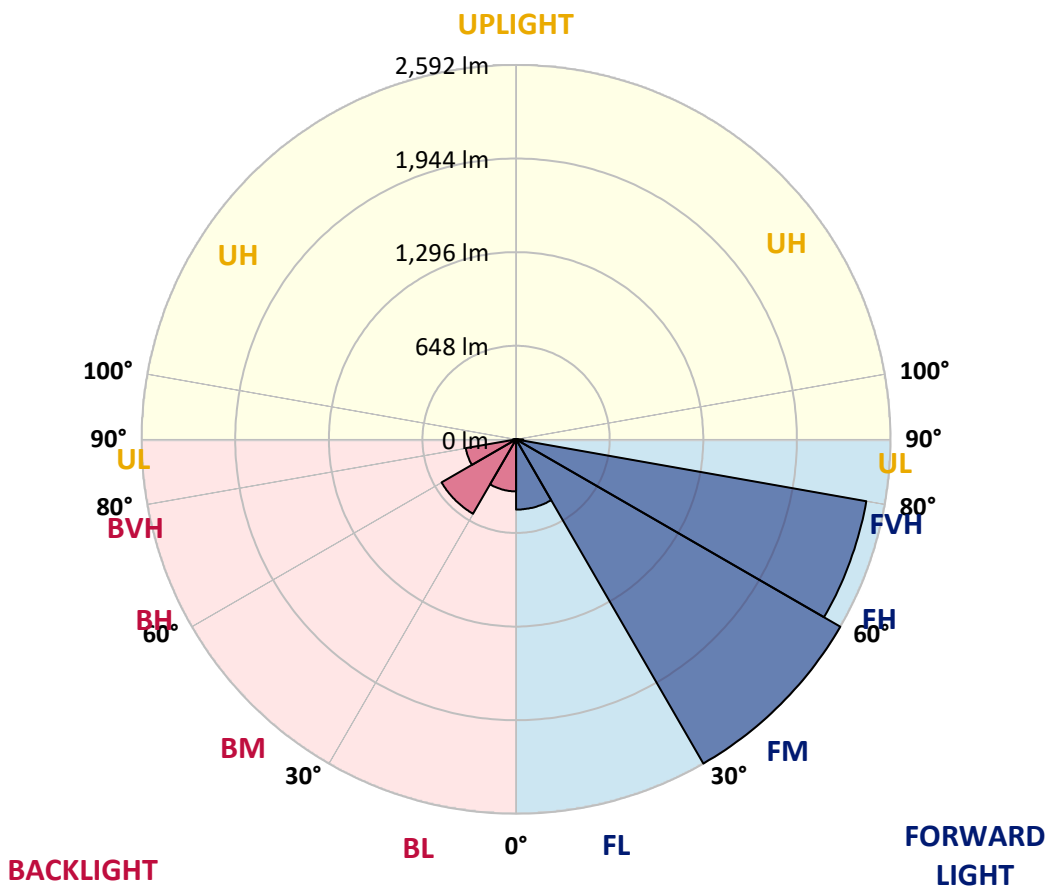
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	486.3	7.0			
FM (30°-60°)	2592.0	37.5			
FH (60°-80°)	2462.0	35.6			G2/5000
FVH (80°-90°)	49.0	0.7			G1/100
BL (0°-30°)	360.1	5.2	B1/500		
BM (30°-60°)	595.1	8.6	B1/1000		
BH (60°-80°)	353.6	5.1	B1/500		G1/500
BVH (80°-90°)	21.5	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1116.9	1116.9	1116.9	1116.9	1116.9	1116.9	1116.9	1116.9	1116.9	1116.9	1116.9
2.5°	1045.2	1039.3	1046.2	1049.6	1058.4	1071.1	1082.3	1082.8	1088.6	1102.8	1116.4
5°	997.9	994.9	996.9	1007.1	1016.4	1032.5	1049.6	1051.1	1067.6	1095.5	1122.8
7.5°	961.3	957.4	964.7	977.9	989.6	1007.6	1030.1	1032.0	1055.4	1097.4	1139.4
10°	908.6	905.6	919.3	936.9	962.2	992.0	1021.8	1024.2	1055.0	1110.1	1168.7
12.5°	885.6	885.6	891.5	908.1	935.9	975.4	1020.3	1024.2	1062.8	1129.6	1206.2
15°	921.3	923.7	918.8	917.8	929.1	966.6	1022.3	1028.1	1077.4	1149.6	1243.3
17.5°	993.0	995.4	982.7	962.7	951.5	974.9	1029.6	1035.9	1093.0	1171.6	1283.3
20°	1093.5	1096.4	1068.6	1037.9	999.3	998.8	1043.7	1049.6	1113.0	1195.5	1325.8
22.5°	1211.1	1213.1	1177.9	1129.1	1070.1	1043.2	1068.1	1074.0	1138.9	1228.7	1371.6
25°	1347.2	1353.1	1310.6	1239.9	1159.9	1104.2	1108.6	1115.5	1185.2	1273.1	1425.8
27.5°	1492.7	1500.0	1451.2	1373.1	1262.8	1171.6	1160.8	1166.7	1234.5	1300.4	1454.6
30°	1641.5	1646.8	1598.1	1508.8	1373.6	1247.7	1204.8	1208.2	1256.0	1313.6	1483.9
32.5°	1806.9	1802.5	1755.7	1652.7	1501.4	1338.9	1245.8	1244.8	1279.9	1339.9	1525.8
35°	1962.1	1968.4	1918.6	1804.9	1642.0	1451.7	1307.2	1303.3	1330.7	1382.9	1584.9
37.5°	2149.9	2148.0	2088.4	1965.5	1783.0	1559.5	1393.6	1386.8	1396.5	1449.7	1667.3
40°	2284.1	2297.8	2259.2	2144.6	1947.9	1692.2	1494.6	1479.5	1481.9	1532.2	1777.6
42.5°	2393.9	2406.6	2410.5	2337.3	2136.8	1856.2	1620.5	1605.4	1606.8	1678.1	1913.3
45°	2478.3	2495.4	2550.5	2529.1	2349.5	2045.5	1790.8	1775.2	1776.2	1855.2	2077.2
47.5°	2513.0	2531.5	2643.3	2694.5	2575.4	2271.9	2002.6	1979.6	1983.1	2070.4	2264.6
50°	2501.7	2526.6	2677.9	2821.8	2764.8	2502.2	2255.8	2239.7	2226.5	2353.4	2468.1
52.5°	2405.1	2432.5	2674.5	2902.8	2919.4	2719.9	2517.4	2508.1	2505.2	2654.0	2695.5
55°	2120.7	2166.5	2556.9	2924.3	3040.4	2924.8	2800.9	2785.2	2800.4	2976.0	2925.3
57.5°	1963.0	1997.2	2326.6	2900.4	3139.5	3120.0	3083.9	3085.3	3102.4	3325.9	3203.9
60°	1873.3	1913.3	2198.7	2835.0	3234.7	3357.1	3380.1	3380.1	3410.8	3703.1	3486.9
62.5°	1754.2	1794.7	2079.2	2709.1	3322.5	3636.2	3752.4	3750.9	3763.1	4107.6	3763.6
65°	1512.7	1550.2	1839.1	2510.5	3365.4	3943.7	4175.4	4171.0	4146.6	4467.7	3946.6
67.5°	1098.4	1134.0	1408.7	2132.9	3210.7	4191.5	4611.2	4613.1	4467.2	4694.6	3956.3
70°	724.1	748.5	905.6	1385.3	2611.0	4084.7	4793.7	4799.5	4516.5	4553.1	3521.1
72.5°	451.8	468.9	565.5	826.1	1542.9	3233.2	4325.2	4341.3	4063.2	4001.2	2893.1
75°	300.1	311.8	376.2	481.6	713.9	1749.8	3287.8	3339.6	3256.6	3136.6	2015.7
77.5°	180.5	190.3	239.6	305.9	316.2	683.6	1919.1	2052.8	2064.5	1637.6	844.2
80°	82.5	93.7	132.2	174.7	168.3	238.1	676.8	708.0	835.4	520.2	266.4
82.5°	48.8	53.7	87.8	86.9	71.7	115.6	243.5	249.8	212.3	190.3	113.7
85°	19.5	22.9	37.1	32.7	26.3	37.6	91.7	96.1	92.2	83.0	42.0
87.5°	0.0	0.0	0.0	0.0	0.5	1.0	8.3	8.8	12.7	22.9	12.7
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°	1116.9	1116.9	1116.9	1116.9	1116.9	1116.9	1116.9	1116.9	1116.9	1116.9	1116.9
2.5°	1125.2	1122.3	1136.9	1148.2	1153.0	1157.9	1153.5	1152.1	1152.1	1142.3	1137.4
5°	1137.4	1138.9	1158.9	1168.2	1168.2	1164.3	1152.6	1144.3	1141.3	1128.6	1125.2
7.5°	1160.4	1166.7	1185.2	1184.8	1171.1	1149.6	1120.3	1097.9	1077.4	1068.6	1063.3
10°	1197.9	1206.2	1218.9	1198.4	1160.4	1103.8	1041.8	993.0	963.7	940.3	940.3
12.5°	1240.9	1248.7	1246.2	1198.9	1120.3	1014.5	925.2	869.0	828.1	806.6	806.6
15°	1283.8	1290.2	1263.8	1176.5	1036.9	895.9	798.3	731.0	695.3	675.3	675.3
17.5°	1327.2	1326.8	1271.1	1124.7	928.1	764.6	669.0	616.8	604.6	601.2	600.7
20°	1369.2	1358.0	1261.9	1038.4	801.7	632.4	571.9	575.3	593.4	601.2	602.1
22.5°	1416.5	1388.7	1234.5	928.1	658.3	540.7	544.6	572.9	599.2	610.9	612.4
25°	1464.8	1415.1	1188.7	798.8	538.2	507.0	537.2	569.0	598.7	613.8	615.3
27.5°	1484.4	1415.1	1110.6	649.0	474.3	492.8	526.0	556.8	588.0	605.6	609.0
30°	1500.5	1402.9	1001.3	513.8	447.9	479.2	508.0	536.3	567.0	588.5	592.4
32.5°	1522.9	1392.1	869.0	431.8	435.7	466.0	486.0	509.9	537.7	551.9	550.4
35°	1549.3	1375.5	709.5	392.8	425.5	454.8	468.9	483.1	470.4	469.9	471.4
37.5°	1586.8	1360.9	570.4	375.2	418.7	447.0	458.7	428.4	410.9	403.5	400.6
40°	1641.0	1355.1	449.9	365.0	417.7	446.5	438.2	391.3	367.4	342.1	341.6
42.5°	1709.3	1350.7	371.8	360.1	421.1	457.7	409.9	366.9	317.7	306.4	305.5
45°	1797.1	1343.8	332.8	359.1	429.4	466.5	407.0	333.3	299.6	294.7	294.7
47.5°	1903.0	1333.1	315.2	359.1	438.7	462.6	398.2	326.0	291.3	296.7	300.1
50°	2024.5	1319.4	305.9	358.2	447.9	462.6	379.6	324.5	289.4	317.2	328.4
52.5°	2154.3	1303.8	299.6	354.3	454.3	463.1	380.6	329.4	291.3	322.1	331.3
55°	2297.8	1301.4	290.8	346.0	456.2	450.4	383.0	340.1	294.2	291.8	292.3
57.5°	2478.8	1330.7	284.5	333.8	448.4	424.5	387.9	347.9	290.8	291.3	294.7
60°	2668.1	1385.8	289.8	322.1	432.3	400.1	391.3	344.0	274.2	266.4	267.4
62.5°	2829.2	1427.8	294.2	316.7	408.9	378.7	387.9	335.2	265.0	263.0	267.4
65°	2896.5	1393.1	283.5	305.5	374.7	352.3	380.6	324.0	257.2	249.8	250.3
67.5°	2821.8	1230.6	262.5	280.6	336.2	318.6	368.9	309.4	246.4	237.6	235.7
70°	2410.5	904.2	226.4	241.0	289.4	279.1	350.8	290.3	229.3	223.0	218.6
72.5°	1942.6	640.2	187.9	191.8	226.9	235.2	319.6	266.4	209.8	191.8	185.4
75°	1352.1	402.1	156.6	152.7	164.0	179.6	249.3	221.0	181.0	162.0	156.1
77.5°	581.6	206.4	122.5	120.5	109.3	124.4	191.3	184.4	151.8	129.8	126.4
80°	194.7	119.5	88.3	84.9	72.7	87.3	134.7	147.4	119.1	96.1	90.3
82.5°	97.6	69.3	56.1	50.7	48.8	55.1	79.5	91.7	82.5	66.4	56.1
85°	47.8	39.5	30.7	30.3	25.4	23.9	33.2	39.0	37.1	27.3	25.9
87.5°	17.6	15.6	9.8	7.8	4.9	3.4	2.0	2.0	1.5	1.5	1.5
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)