

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P526050

Luminaire Tested: **GALN-SA1A-727-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526050
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-727-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3274 lumens
Efficiency: N/A
Efficacy: 99.2 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

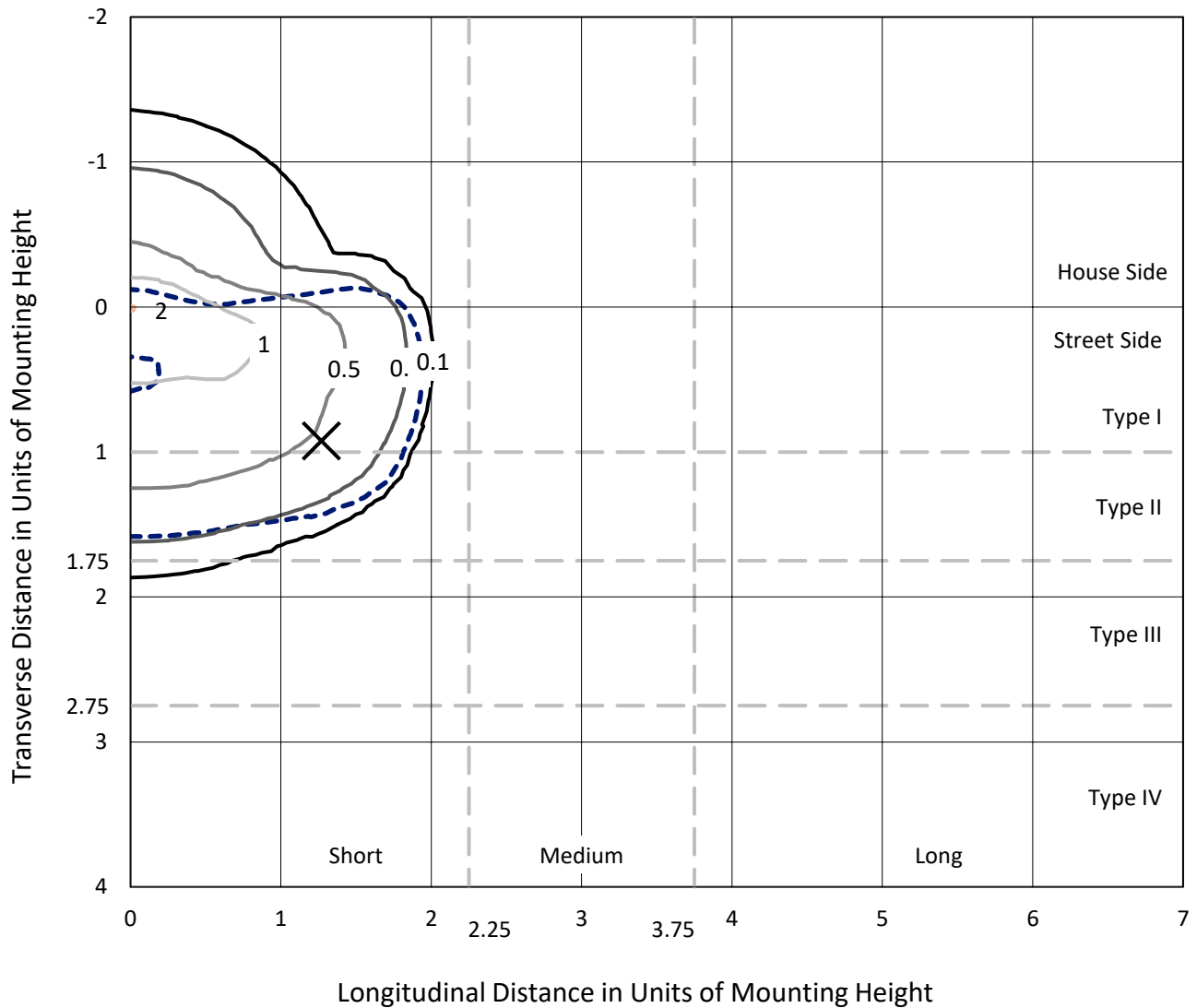
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

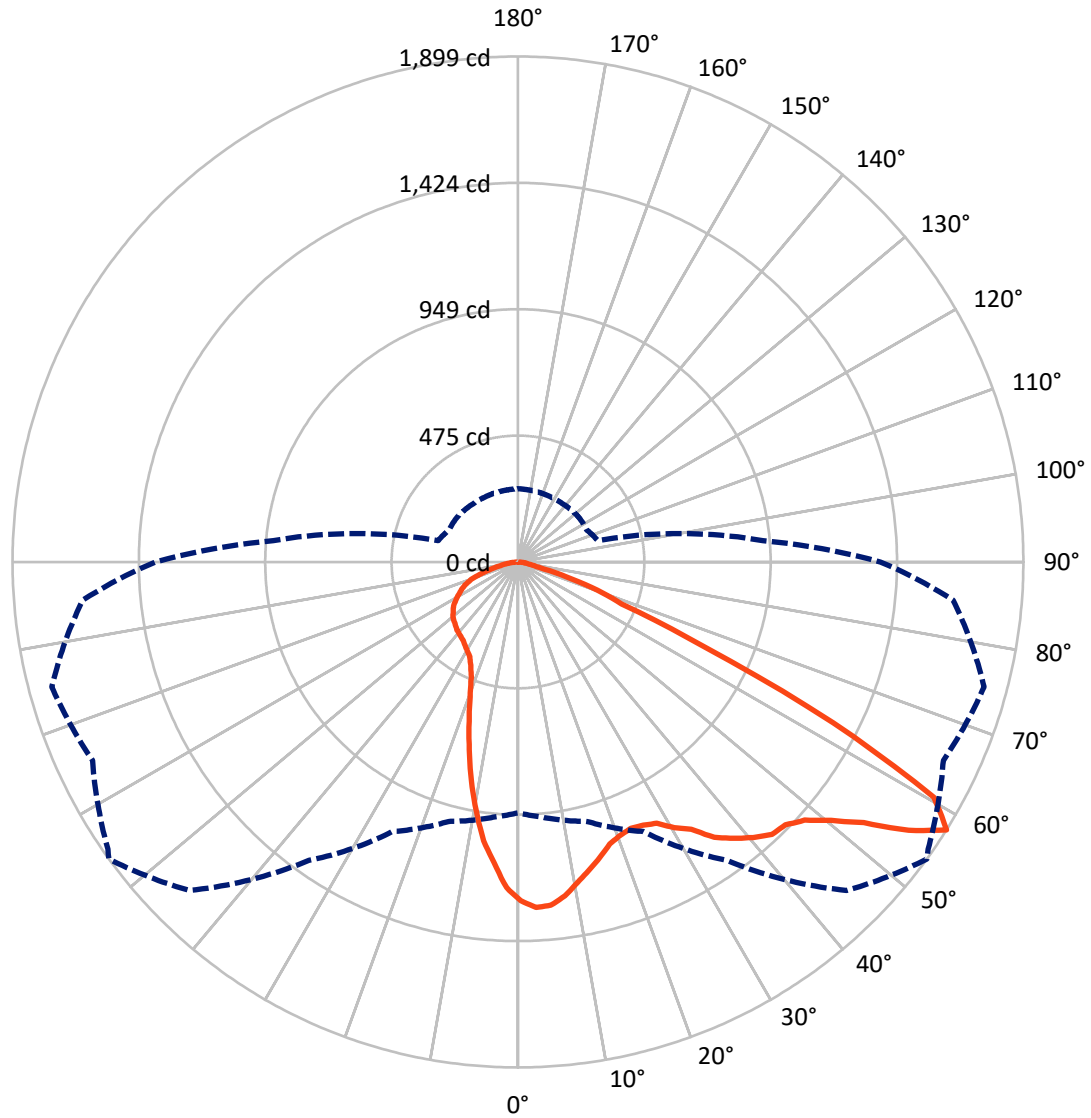
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	905.8	0.0	905.8
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	2368.2	0.0	2368.2
	% Fixture	72.3	0.0	72.3
Total	Lumens	3274.0	0.0	3274.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.7	3.4
10°-20°	254.1	7.8
20°-30°	357.0	10.9
30°-40°	499.1	15.2
40°-50°	675.7	20.6
50°-60°	823.0	25.1
60°-70°	428.7	13.1
70°-80°	109.8	3.4
80°-90°	16.7	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°	3274.0	100.0
0°-180°	3274.0	100.0

Coefficient of Utilization



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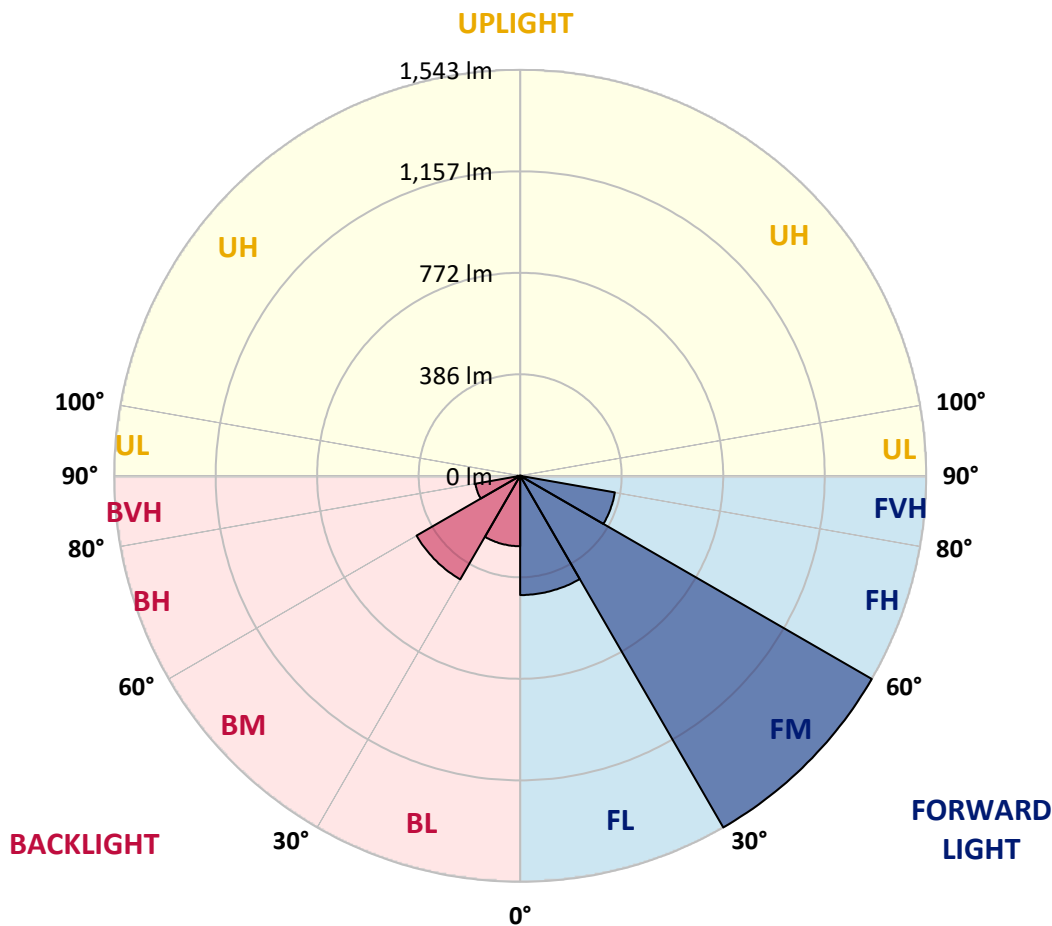
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	453.2	13.8			
FM (30°-60°)	1543.3	47.1			
FH (60°-80°)	365.5	11.2			G0/660
FVH (80°-90°)	6.3	0.2			G0/10
BL (0°-30°)	267.7	8.2	B1/500		
BM (30°-60°)	454.6	13.9	B1/1000		
BH (60°-80°)	173.0	5.3	B1/500		G1/500
BVH (80°-90°)	10.4	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°	54°	55°	65°	75°	85°
0°	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6
2.5°	1308.8	1303.7	1304.5	1311.3	1302.9	1299.5	1299.5	1283.1	1284.3	1273.0	1270.0
5°	1278.5	1266.7	1274.7	1284.8	1286.5	1289.8	1295.3	1291.1	1279.3	1267.1	1247.3
7.5°	1199.3	1209.9	1212.8	1220.0	1235.1	1249.0	1266.3	1254.5	1254.1	1241.8	1230.1
10°	1129.9	1123.6	1139.6	1150.1	1175.4	1198.5	1225.0	1223.8	1230.1	1216.2	1196.0
12.5°	1060.9	1055.8	1063.4	1087.4	1122.8	1156.4	1188.0	1176.2	1209.9	1207.3	1164.0
15°	987.7	991.5	1002.4	1024.7	1071.0	1111.4	1151.4	1151.8	1181.7	1191.8	1133.7
17.5°	936.3	932.1	946.0	979.3	1020.5	1068.9	1114.3	1123.6	1169.5	1175.4	1124.4
20°	898.0	903.9	922.0	938.9	986.4	1044.9	1096.2	1099.6	1166.9	1182.9	1109.7
22.5°	888.8	885.4	891.3	918.7	957.8	1021.3	1086.6	1099.2	1166.5	1180.4	1081.9
25°	879.1	890.0	889.6	917.0	945.6	1002.4	1094.6	1108.4	1188.8	1193.5	1085.7
27.5°	901.0	899.7	911.5	913.6	949.0	1007.4	1111.4	1121.9	1225.9	1222.1	1088.7
30°	922.9	916.6	923.7	948.5	964.9	1036.5	1157.7	1156.8	1273.8	1271.3	1097.9
32.5°	949.8	946.8	951.5	973.4	1001.1	1075.2	1196.8	1221.6	1322.6	1338.6	1129.9
35°	954.8	967.0	978.0	1007.4	1047.0	1137.9	1270.5	1291.1	1379.0	1429.1	1190.9
37.5°	986.8	991.5	1017.1	1069.3	1105.5	1221.6	1317.2	1330.2	1430.4	1487.2	1255.3
40°	1020.9	1026.4	1065.1	1119.8	1169.5	1276.4	1360.9	1365.1	1446.8	1531.8	1297.4
42.5°	1067.2	1072.3	1110.5	1179.1	1245.6	1323.1	1399.7	1404.3	1445.5	1583.1	1364.3
45°	1115.2	1127.4	1172.4	1250.3	1310.0	1377.8	1408.5	1427.4	1457.3	1629.0	1418.6
47.5°	1182.5	1193.9	1230.9	1307.1	1376.9	1425.7	1449.3	1467.8	1485.5	1669.0	1453.5
50°	1254.1	1256.2	1301.2	1370.2	1421.5	1480.0	1525.5	1531.8	1522.5	1715.3	1512.9
52.5°	1306.7	1313.4	1348.3	1415.6	1492.2	1564.2	1626.5	1633.2	1615.1	1732.5	1533.1
55°	1219.5	1215.8	1272.6	1362.2	1539.8	1689.6	1780.1	1785.1	1682.4	1786.0	1599.1
57.5°	942.6	960.7	1009.1	1117.3	1368.1	1745.1	1898.7	1880.7	1763.2	1812.9	1641.2
60°	685.1	680.9	713.3	785.7	1031.0	1504.0	1795.2	1813.7	1697.2	1634.1	1353.4
62.5°	558.0	552.1	554.6	557.2	665.3	998.2	1329.0	1328.5	1307.1	1174.5	912.8
65°	446.1	460.0	461.2	480.2	494.0	596.3	770.1	811.3	706.6	579.5	420.4
67.5°	336.2	331.2	348.0	415.4	441.4	430.5	420.4	425.0	302.2	218.0	205.4
70°	198.2	196.1	216.3	289.5	363.6	342.1	316.9	317.3	207.5	152.3	169.6
72.5°	108.6	108.2	112.4	146.9	206.6	214.6	190.2	196.1	123.7	123.3	132.6
75°	60.6	59.3	58.1	64.8	74.5	78.7	80.4	81.2	85.0	95.1	98.9
77.5°	22.3	21.5	21.5	24.8	31.6	39.6	50.1	50.9	60.2	69.0	72.8
80°	7.6	8.4	11.4	15.6	21.0	28.2	34.1	34.9	42.5	48.4	49.7
82.5°	4.6	5.0	7.6	10.9	15.1	19.8	25.2	25.7	31.6	35.3	37.0
85°	2.1	2.5	4.2	6.7	9.7	13.0	13.5	13.5	13.0	13.5	12.6
87.5°	0.0	0.0	0.8	0.8	0.8	1.3	1.7	1.3	2.1	2.5	2.5
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°	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6
2.5°	1261.2	1256.6	1242.3	1229.6	1225.9	1209.0	1184.2	1187.1	1169.0	1177.5	1168.6
5°	1244.0	1228.4	1191.8	1176.2	1135.4	1116.9	1104.2	1072.7	1057.9	1055.0	1042.4
7.5°	1199.8	1190.1	1144.2	1102.1	1058.8	1021.8	974.2	941.8	918.7	912.3	893.8
10°	1164.8	1143.4	1079.8	1015.9	954.0	889.6	827.8	779.4	755.8	728.4	719.2
12.5°	1130.3	1097.9	1012.1	930.0	850.1	768.8	693.9	635.0	583.7	571.5	567.3
15°	1108.9	1052.5	951.5	852.6	739.0	632.9	558.0	519.3	487.7	474.7	483.9
17.5°	1080.7	1015.0	893.4	761.7	636.7	539.1	476.4	452.4	441.0	442.3	438.5
20°	1045.3	979.7	817.2	679.2	545.4	467.5	431.8	422.9	424.6	427.6	426.3
22.5°	1020.1	936.8	762.1	595.0	471.3	428.0	413.2	406.9	412.4	414.9	412.8
25°	1000.7	900.1	695.2	520.6	428.4	405.7	398.9	398.5	406.9	410.3	408.2
27.5°	983.0	866.1	628.7	463.7	399.8	388.4	386.3	391.4	396.8	400.2	403.1
30°	972.5	840.0	566.4	416.2	385.5	380.0	376.2	380.8	383.8	387.2	385.5
32.5°	982.6	821.4	506.2	389.3	373.7	368.2	373.3	370.3	375.4	378.3	373.7
35°	1014.2	805.0	463.3	375.0	360.2	362.3	363.2	361.9	364.0	361.5	367.0
37.5°	1045.3	799.1	423.8	362.7	353.9	353.9	353.1	350.5	354.8	353.9	356.4
40°	1084.9	802.9	390.1	349.7	348.0	347.2	343.8	343.4	341.7	342.1	343.0
42.5°	1119.4	811.3	370.7	341.3	342.5	344.2	337.9	332.9	335.0	330.8	330.8
45°	1156.0	818.9	353.5	335.4	334.1	333.7	328.7	325.7	324.0	324.5	328.2
47.5°	1213.7	829.9	340.4	327.4	328.2	321.9	320.7	316.9	318.6	321.1	321.5
50°	1254.5	853.0	330.3	318.1	321.1	316.9	309.3	307.6	307.6	311.8	311.0
52.5°	1283.1	885.4	320.7	308.0	309.3	305.9	303.4	299.6	297.1	303.0	305.9
55°	1370.6	939.3	318.1	299.6	299.2	295.8	291.2	287.4	286.2	287.0	292.9
57.5°	1362.2	922.4	310.1	284.9	284.1	279.4	274.8	273.5	273.1	274.0	275.6
60°	1105.9	681.3	276.9	268.1	266.8	266.0	261.3	256.3	253.8	256.3	254.2
62.5°	731.8	456.2	244.1	247.9	248.7	246.6	239.0	234.0	234.8	237.8	233.1
65°	359.4	268.1	221.4	231.5	232.3	226.4	219.2	213.4	210.4	212.9	210.8
67.5°	205.4	204.9	202.8	213.4	212.9	207.0	195.7	190.6	185.6	186.4	185.2
70°	174.2	177.6	181.8	188.1	187.7	181.0	167.5	163.7	156.5	155.7	153.6
72.5°	137.2	143.1	152.3	157.0	153.2	144.8	135.9	129.6	123.3	119.5	120.8
75°	101.8	110.3	115.3	118.3	112.4	107.7	100.6	93.0	85.4	82.1	80.8
77.5°	74.1	76.6	81.2	83.3	79.5	74.9	70.7	63.1	56.0	51.3	50.1
80°	51.8	53.4	56.8	56.8	56.8	54.7	49.2	41.7	37.0	32.8	32.0
82.5°	36.2	37.9	41.2	39.6	39.1	36.6	33.2	27.4	22.3	19.4	18.5
85°	12.6	13.9	16.8	20.2	21.5	21.0	18.9	15.1	11.8	9.7	8.8
87.5°	2.9	2.9	3.4	2.9	2.9	3.4	2.9	2.9	2.9	2.1	1.7
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)