

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: P526200

Luminaire Tested: **GALN-SA1A-827-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526200
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-827-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3070 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

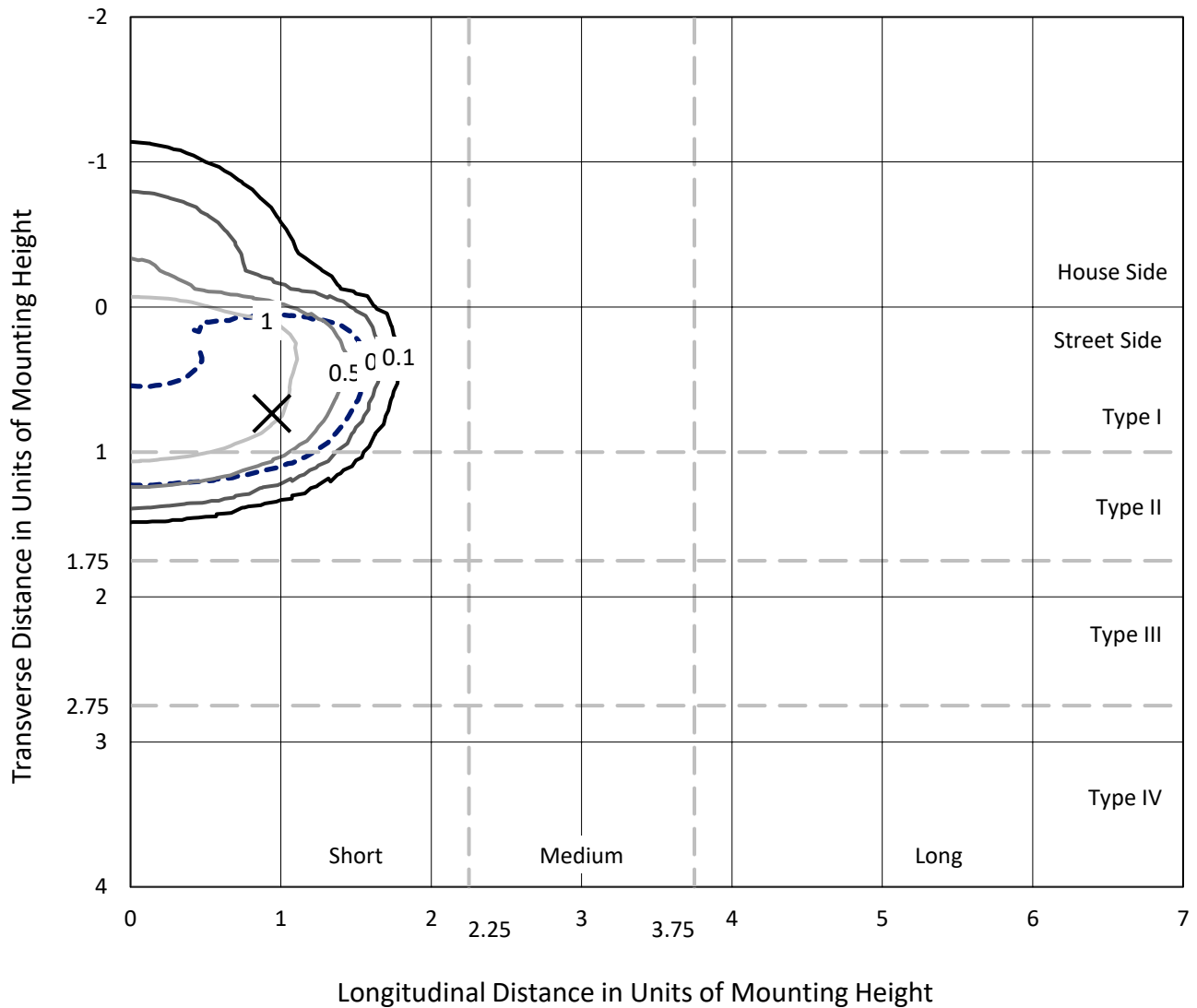
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA1A-827-U-AFL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

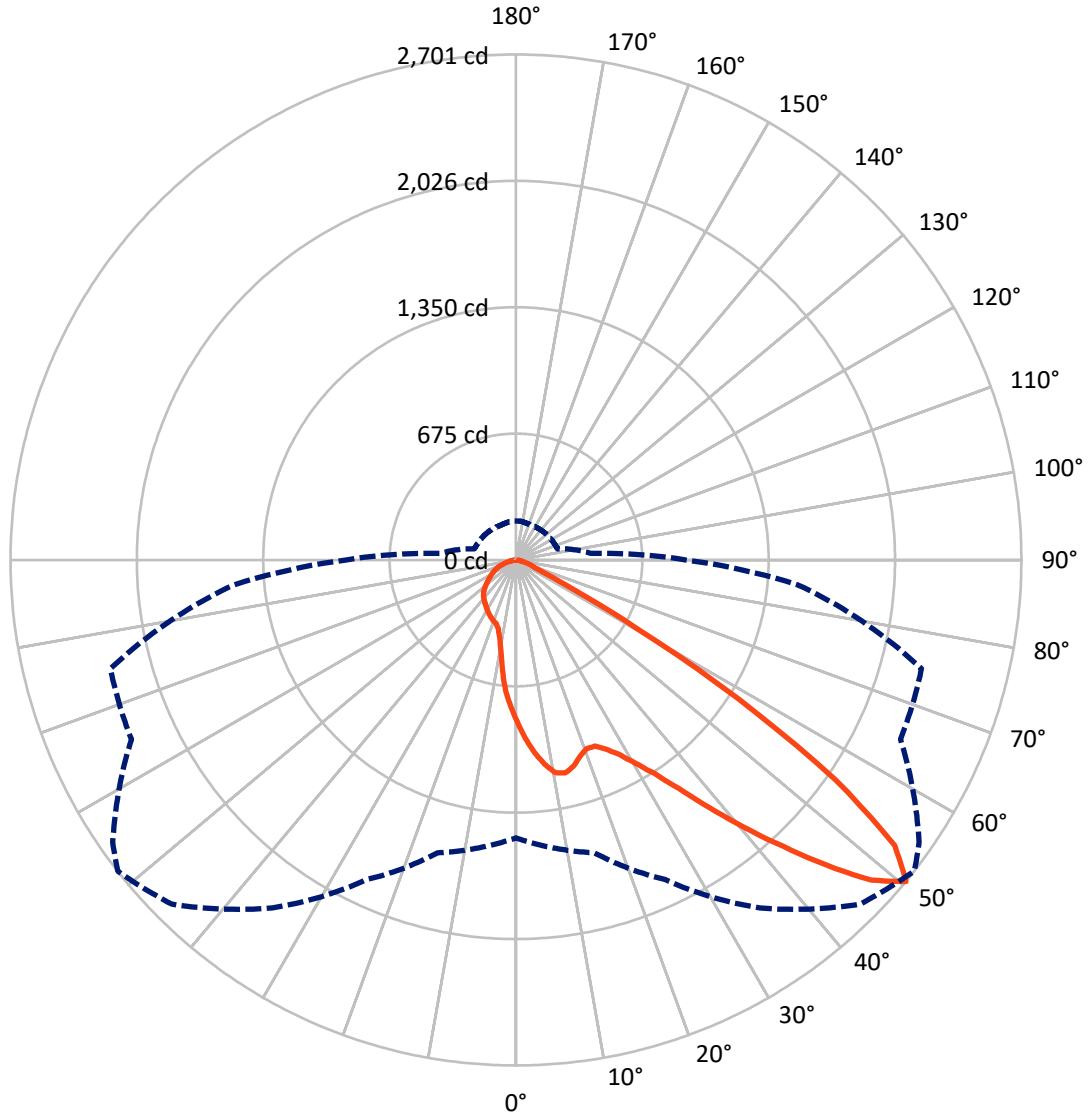
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	577.1	0.0	577.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	2492.9	0.0	2492.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	3070.0	0.0	3070.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.8	2.6
10°-20°	213.8	7.0
20°-30°	360.1	11.7
30°-40°	604.3	19.7
40°-50°	924.4	30.1
50°-60°	674.0	22.0
60°-70°	150.0	4.9
70°-80°	54.1	1.8
80°-90°	9.6	0.3
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°	3070.0	100.0
0°-180°	3070.0	100.0

Coefficient of Utilization

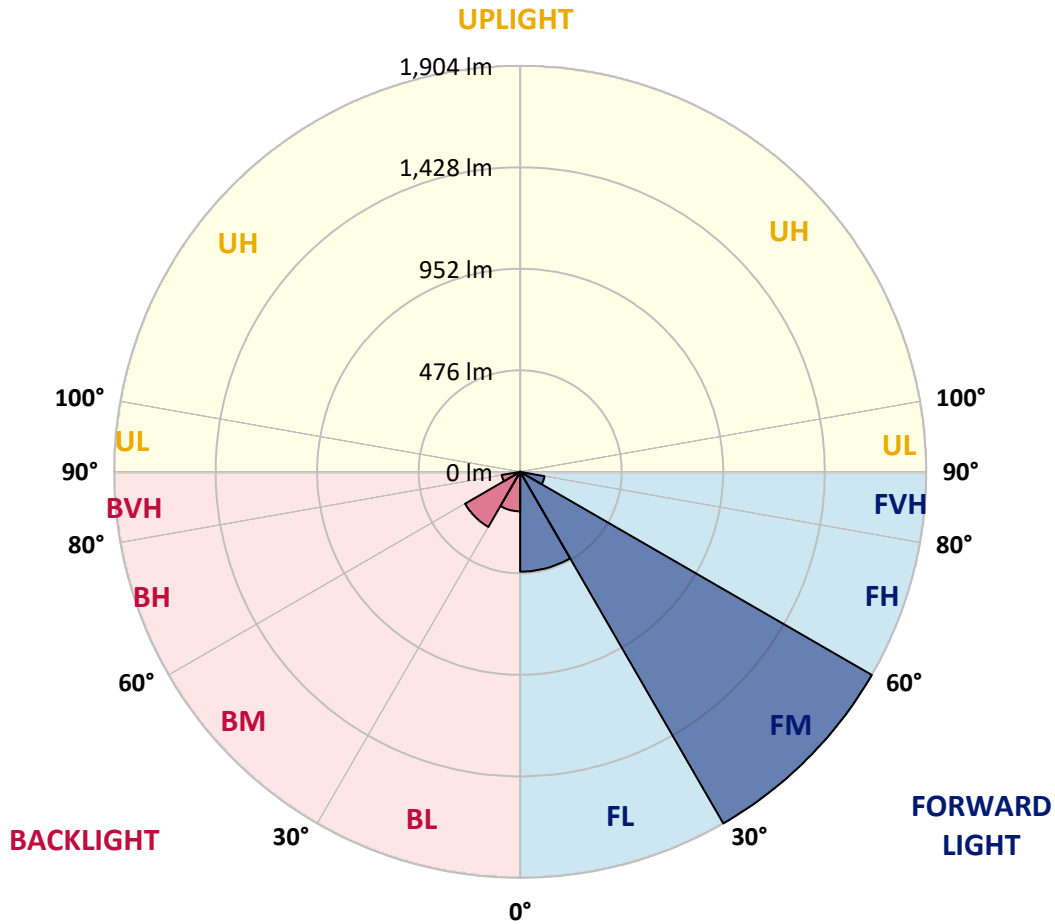


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	468.3	15.3			
FM (30°-60°)	1904.2	62.0			
FH (60°-80°)	116.2	3.8			G0/660
FVH (80°-90°)	4.3	0.1			G0/10
BL (0°-30°)	185.4	6.0	B1/500		
BM (30°-60°)	298.5	9.7	B1/1000		
BH (60°-80°)	87.9	2.9	B0/110		G0/110
BVH (80°-90°)	5.3	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	865.4	865.4	865.4	865.4	865.4	865.4	865.4	865.4	865.4	865.4	865.4
2.5°	1018.9	999.3	1001.5	987.5	972.3	967.9	952.3	937.5	926.4	902.8	880.9
5°	1113.6	1107.7	1098.8	1087.7	1076.3	1048.2	1032.2	1013.7	973.0	936.4	900.2
7.5°	1127.3	1126.2	1131.0	1131.0	1135.1	1124.4	1101.8	1088.8	1045.6	986.0	918.7
10°	1031.1	1034.5	1057.8	1088.1	1130.3	1159.5	1155.8	1152.5	1105.1	1023.7	940.5
12.5°	954.5	947.1	960.8	986.7	1050.0	1120.7	1168.4	1168.8	1156.6	1084.0	956.4
15°	911.3	916.4	920.1	932.3	980.1	1061.8	1145.8	1170.6	1224.3	1126.6	981.6
17.5°	939.0	921.6	920.9	923.8	948.3	1009.7	1104.0	1146.6	1261.3	1181.3	1012.6
20°	975.3	974.9	964.5	960.8	960.5	1015.2	1076.6	1134.4	1280.9	1252.4	1044.1
22.5°	1038.9	1038.9	1021.9	1013.7	996.4	1041.1	1080.3	1119.6	1313.4	1301.2	1059.3
25°	1145.5	1128.1	1098.8	1078.9	1068.9	1084.8	1119.6	1154.7	1341.9	1353.0	1090.7
27.5°	1243.9	1216.5	1202.1	1167.7	1154.3	1145.1	1176.9	1212.4	1375.2	1433.7	1107.7
30°	1355.6	1350.8	1324.9	1280.5	1247.6	1230.6	1259.8	1294.9	1436.3	1516.2	1146.9
32.5°	1555.4	1511.7	1476.6	1422.2	1368.6	1332.3	1361.2	1384.5	1537.6	1602.4	1189.9
35°	1771.1	1757.0	1696.4	1598.3	1516.2	1483.6	1500.6	1518.0	1655.7	1734.1	1262.0
37.5°	1983.1	1963.9	1913.9	1831.4	1731.5	1665.3	1677.5	1697.8	1788.1	1911.7	1350.1
40°	2135.5	2111.8	2086.7	2074.5	1975.3	1884.7	1877.6	1882.8	1967.2	2078.2	1447.7
42.5°	2146.6	2175.8	2183.6	2232.8	2209.5	2135.2	2091.9	2093.0	2138.1	2242.8	1546.5
45°	2123.3	2096.3	2153.7	2288.0	2364.9	2399.7	2326.8	2317.6	2243.9	2338.3	1595.7
47.5°	1878.8	1886.2	1983.1	2195.5	2417.8	2573.2	2556.2	2525.5	2300.5	2334.9	1588.0
50°	1485.1	1529.9	1619.8	1884.3	2269.8	2600.6	2700.9	2629.8	2266.9	2243.2	1508.8
52.5°	989.0	1007.5	1066.7	1408.1	1825.1	2324.6	2534.4	2550.6	2235.8	2122.9	1408.5
55°	440.3	438.8	522.0	735.5	1145.1	1768.9	2070.8	2169.9	2116.3	2000.5	1310.8
57.5°	186.5	192.8	226.8	317.8	563.1	1067.4	1403.0	1489.9	1627.5	1642.7	1005.6
60°	126.2	126.9	136.2	159.1	235.7	501.3	735.9	840.2	938.6	932.0	533.5
62.5°	99.2	101.7	108.8	118.0	139.9	227.5	329.3	387.4	393.7	331.1	202.4
65°	84.7	85.1	92.1	99.9	109.5	132.5	158.7	161.7	163.5	157.6	148.7
67.5°	69.9	70.7	76.2	85.1	94.0	101.4	108.8	112.5	121.0	137.6	135.4
70°	55.5	56.6	61.4	68.8	77.0	81.4	90.6	94.0	101.7	114.7	119.9
72.5°	42.2	42.5	46.6	51.8	59.2	63.6	71.4	75.1	80.3	91.4	96.2
75°	30.3	31.4	34.4	37.0	38.1	41.1	48.5	52.5	59.9	64.7	65.1
77.5°	15.9	16.6	17.4	17.4	21.1	26.6	31.4	33.7	38.8	42.5	40.7
80°	6.3	6.7	8.5	11.5	14.8	19.2	22.6	23.7	28.1	30.3	31.4
82.5°	3.7	4.1	5.5	8.1	10.7	13.7	16.3	17.4	20.3	22.9	23.7
85°	1.8	2.2	3.3	5.2	7.0	8.5	8.1	7.8	7.8	7.4	7.8
87.5°	0.7	0.7	1.1	1.1	1.1	1.5	1.8	1.8	1.8	2.2	2.2
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°	865.4	865.4	865.4	865.4	865.4	865.4	865.4	865.4	865.4	865.4	865.4
2.5°	866.5	851.7	838.0	812.8	785.5	777.7	745.9	734.4	726.3	716.7	713.7
5°	870.9	851.3	807.3	756.6	716.3	664.5	630.4	593.8	567.2	560.5	558.7
7.5°	880.2	846.5	770.7	694.1	611.6	541.3	487.6	458.8	433.2	431.8	429.2
10°	890.5	832.1	730.7	610.5	505.0	439.9	407.7	395.1	388.8	387.4	386.6
12.5°	899.1	829.1	685.9	529.1	429.5	390.3	380.7	379.6	382.2	382.9	384.4
15°	902.8	817.3	631.9	456.2	382.6	368.1	372.2	376.6	378.5	383.3	379.6
17.5°	909.8	802.1	565.3	398.5	356.3	358.9	365.9	371.1	374.0	377.4	372.6
20°	913.5	788.4	502.8	364.1	347.0	351.9	361.5	365.5	369.2	370.7	365.2
22.5°	910.1	760.3	447.7	336.3	338.2	344.5	353.0	357.4	355.2	349.3	345.9
25°	901.3	720.7	390.3	318.6	325.6	336.7	343.3	340.0	335.9	332.6	331.5
27.5°	900.9	672.3	348.9	302.3	314.9	330.0	327.8	324.8	326.7	324.1	321.1
30°	902.8	625.3	314.9	293.0	307.1	314.5	317.1	314.1	316.3	311.5	313.0
32.5°	893.1	579.4	292.7	282.3	297.8	297.5	306.0	308.2	303.0	293.0	294.5
35°	897.2	542.4	273.8	277.5	287.5	287.5	294.1	291.5	277.9	271.9	273.4
37.5°	925.3	506.1	264.5	270.8	277.5	280.4	278.2	267.1	263.8	263.8	264.5
40°	952.0	475.1	259.0	269.3	268.2	270.1	253.8	254.9	254.9	255.3	253.4
42.5°	975.6	454.0	254.5	260.5	262.3	252.7	242.7	241.6	244.2	243.8	242.3
45°	984.1	436.6	248.3	250.5	252.0	236.0	231.2	229.0	232.0	233.1	234.6
47.5°	951.6	422.1	241.2	236.8	233.8	223.5	217.2	213.1	216.8	223.1	224.6
50°	909.8	403.3	230.1	221.6	215.3	210.9	206.4	202.4	205.0	209.4	208.3
52.5°	848.0	373.7	216.1	207.2	196.5	197.6	193.5	191.3	192.8	192.8	191.6
55°	759.9	307.1	192.4	186.1	177.2	180.2	180.9	178.0	175.0	177.6	175.4
57.5°	518.7	216.8	171.7	171.7	162.8	166.9	166.5	159.5	152.4	153.2	151.7
60°	300.1	172.8	158.4	156.9	147.6	151.0	151.7	146.9	136.2	136.9	135.4
62.5°	170.6	147.6	138.4	136.2	134.3	137.3	137.3	131.0	121.7	122.5	121.0
65°	145.0	136.9	123.6	123.2	122.5	123.2	120.2	113.6	105.4	102.1	102.5
67.5°	131.7	126.5	113.6	110.3	108.0	107.7	102.1	95.8	92.1	89.2	88.8
70°	115.4	111.4	101.7	97.3	95.1	89.9	84.4	80.3	75.1	73.6	75.1
72.5°	91.4	91.0	87.3	82.5	77.7	73.6	68.8	63.3	58.5	57.3	54.8
75°	63.3	64.0	64.7	64.0	59.9	54.8	49.2	44.8	38.8	35.5	34.8
77.5°	41.4	42.5	43.7	42.2	39.6	34.8	31.1	25.5	21.1	18.5	18.1
80°	30.3	31.8	32.6	31.4	28.5	24.8	20.7	16.3	12.9	10.7	10.7
82.5°	23.3	24.8	25.5	23.7	20.7	17.8	14.8	11.5	8.9	7.0	6.7
85°	8.1	7.8	9.2	9.6	11.5	10.7	8.9	6.7	5.2	3.7	3.3
87.5°	2.2	2.2	2.6	2.6	2.2	1.8	1.8	1.8	1.5	1.1	1.1
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)