

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: P526445

Luminaire Tested: **GALN-SA1B-827-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526445
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-827-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2497 lumens
Efficiency: N/A
Efficacy: 56.8 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

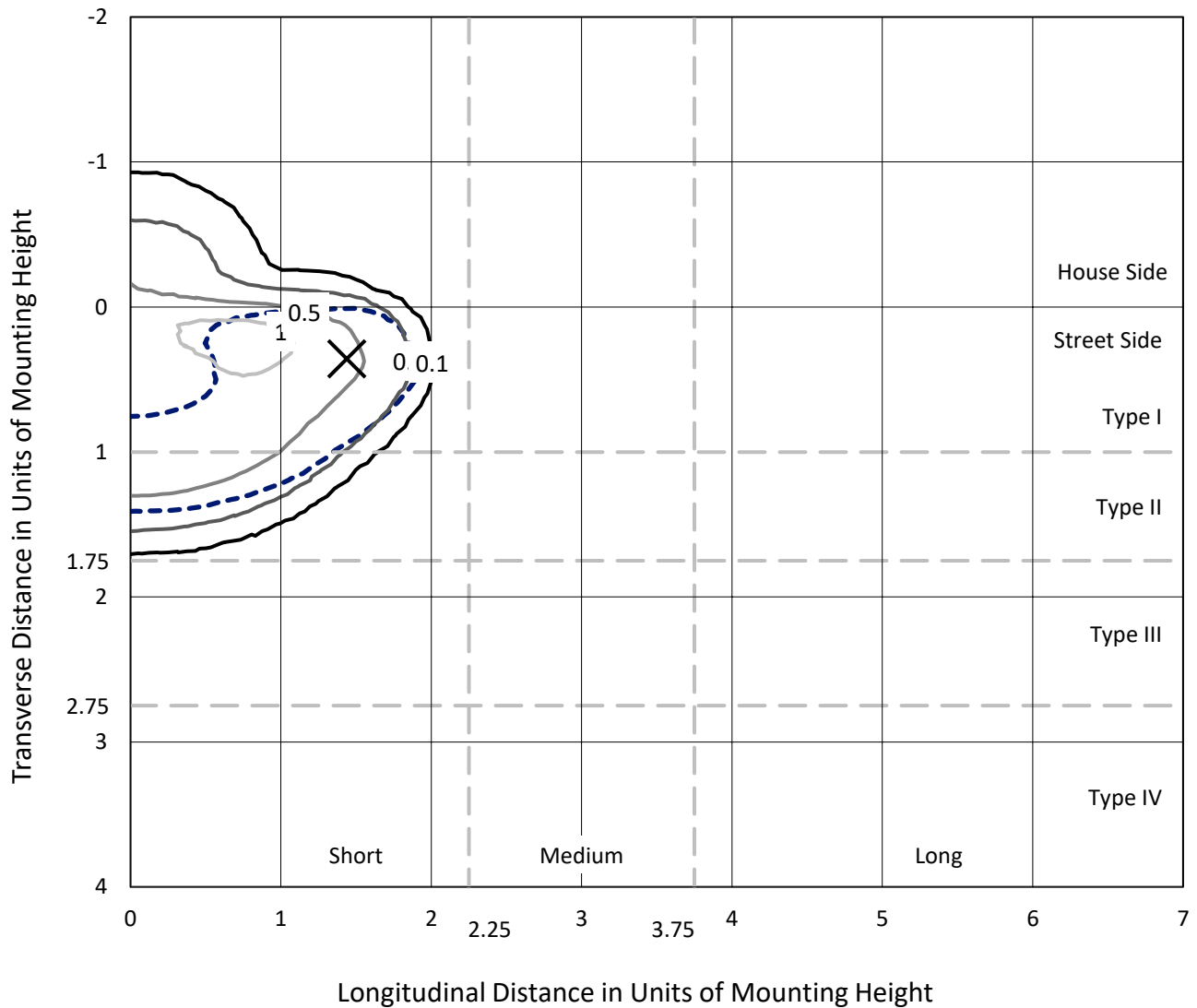
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

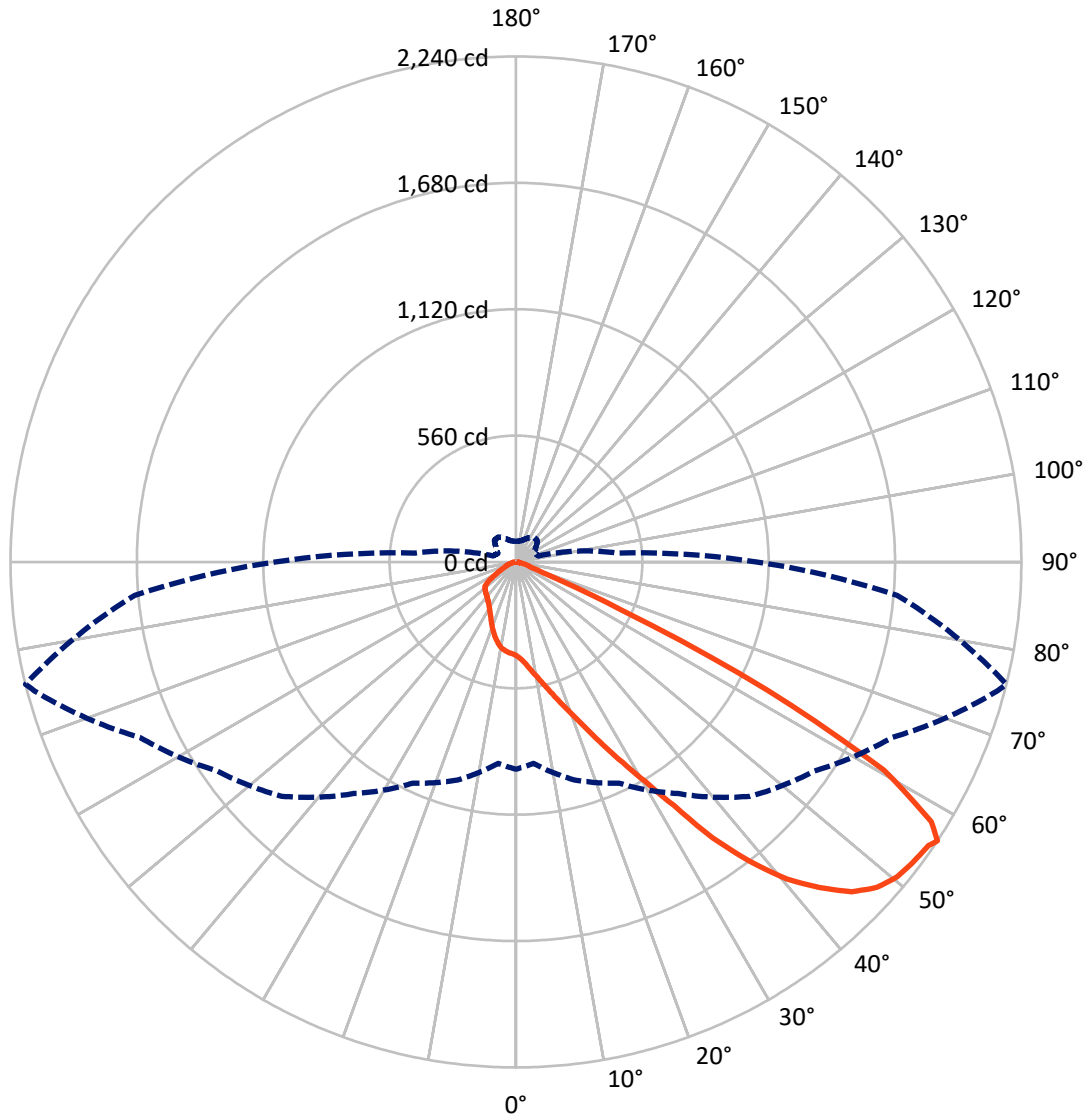
x Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	392.3	0.0	392.3
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	2104.7	0.0	2104.7
	% Fixture	84.3	0.0	84.3
Total	Lumens	2497.0	0.0	2497.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.9	1.7
10°-20°	134.5	5.4
20°-30°	243.9	9.8
30°-40°	420.6	16.8
40°-50°	683.3	27.4
50°-60°	720.2	28.8
60°-70°	220.1	8.8
70°-80°	28.2	1.1
80°-90°	4.3	0.2
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°	2497.0	100.0
0°-180°	2497.0	100.0

Coefficient of Utilization

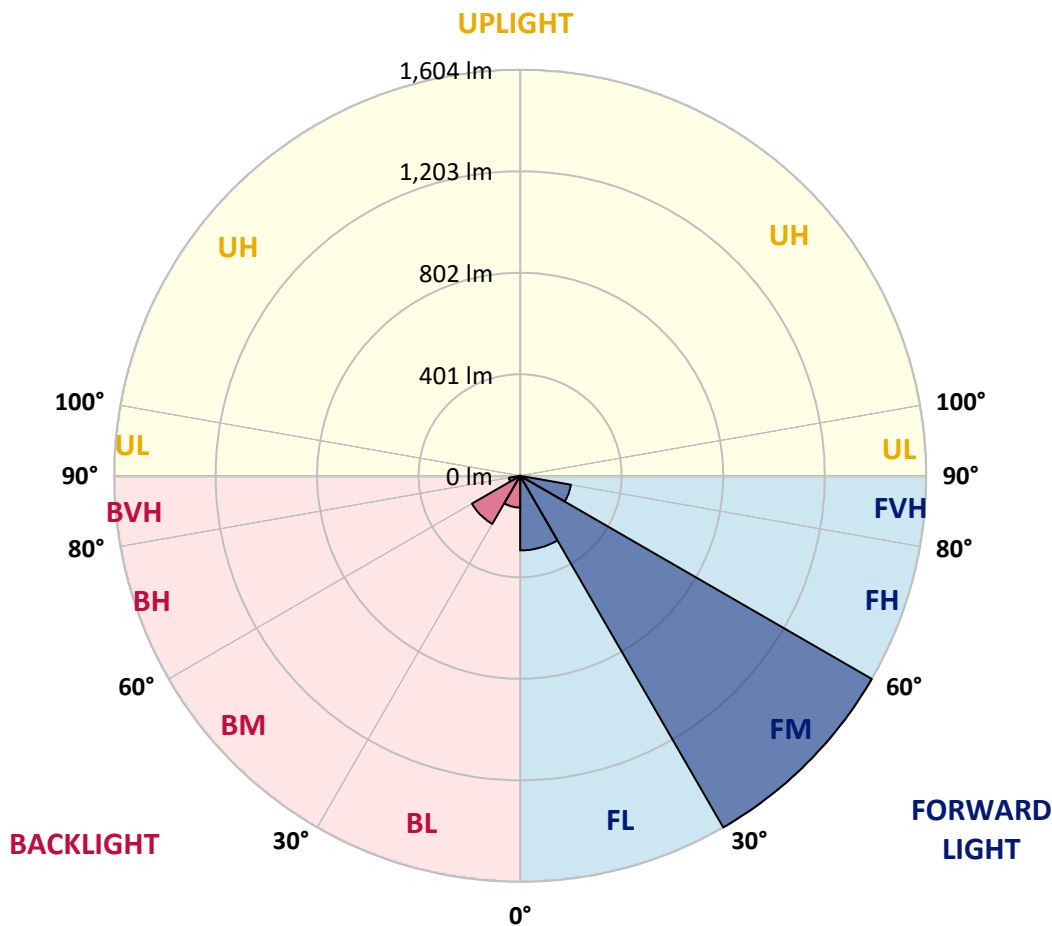


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	294.8	11.8			
FM (30°-60°)	1604.3	64.2			
FH (60°-80°)	203.5	8.2			G0/660
FVH (80°-90°)	2.1	0.1			G0/10
BL (0°-30°)	125.5	5.0	B1/500		
BM (30°-60°)	219.8	8.8	B0/220		
BH (60°-80°)	44.7	1.8	B0/110		G0/110
BVH (80°-90°)	2.2	0.1			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°	55°	65°	75°	76°	85°
0°	415.6	415.6	415.6	415.6	415.6	415.6	415.6	415.6	415.6	415.6	415.6
2.5°	478.7	467.6	468.1	467.2	465.8	460.7	445.5	443.2	433.1	430.4	421.2
5°	536.2	526.6	532.1	523.8	516.0	511.4	486.5	475.0	458.9	452.9	440.0
7.5°	572.1	567.5	565.7	566.1	558.8	547.3	536.2	510.9	489.3	484.7	457.5
10°	589.6	586.9	589.6	588.2	591.5	592.8	573.5	558.3	526.6	518.7	476.4
12.5°	593.8	599.3	601.6	607.6	615.4	628.7	627.4	606.6	564.3	559.2	505.4
15°	603.9	608.5	606.2	615.8	630.6	653.1	665.1	661.9	616.3	607.1	539.0
17.5°	613.1	604.8	612.6	632.0	646.7	681.2	710.2	723.6	672.9	662.3	569.8
20°	625.5	623.2	621.8	631.5	657.7	703.8	761.3	785.7	736.4	725.4	614.0
22.5°	663.3	663.7	662.8	648.5	667.4	719.4	805.9	866.2	812.4	803.2	664.2
25°	713.0	707.0	702.4	690.9	688.6	733.7	851.1	964.7	903.5	897.1	718.5
27.5°	765.4	765.4	751.6	741.0	726.3	769.1	892.5	1060.5	1013.5	1004.8	765.9
30°	822.5	825.7	823.9	801.3	792.1	807.8	934.8	1182.9	1139.6	1128.6	844.1
32.5°	906.7	899.8	907.7	888.8	861.6	875.4	1001.6	1292.5	1303.5	1287.9	946.8
35°	1018.1	1014.0	1008.9	978.1	945.9	956.9	1095.9	1427.3	1509.2	1501.4	1050.4
37.5°	1118.0	1115.7	1111.6	1090.4	1053.1	1066.5	1203.2	1567.7	1709.9	1684.2	1196.7
40°	1223.0	1235.4	1222.0	1203.2	1169.1	1198.6	1329.3	1651.0	1878.8	1847.5	1308.6
42.5°	1365.2	1355.5	1361.5	1327.0	1308.6	1340.8	1455.9	1734.3	2010.0	1972.7	1427.3
45°	1516.6	1517.1	1501.0	1489.9	1442.0	1477.0	1533.6	1780.3	2114.5	2085.5	1517.1
47.5°	1613.7	1613.3	1630.8	1648.2	1599.0	1564.5	1586.6	1824.1	2168.4	2155.0	1549.7
50°	1598.5	1603.1	1625.7	1691.1	1716.8	1670.3	1636.3	1811.2	2192.8	2191.4	1577.8
52.5°	1390.5	1405.7	1443.4	1537.8	1667.6	1725.1	1688.3	1835.1	2204.7	2207.0	1619.7
55°	1058.6	1066.9	1138.7	1253.3	1396.9	1593.9	1667.6	1854.0	2213.9	2218.1	1670.3
56°	918.3	896.2	999.7	1081.2	1252.9	1468.3	1615.1	1839.3	2208.4	2240.2	1695.7
57.5°	693.2	678.4	762.2	863.9	1029.2	1256.6	1452.2	1769.8	2171.1	2170.7	1659.3
60°	421.6	406.9	471.3	531.2	623.7	773.7	981.3	1409.4	1835.6	1874.2	1343.5
62.5°	250.9	260.1	323.6	359.9	389.9	405.5	507.7	837.7	1224.8	1252.4	833.6
65°	167.1	170.3	218.2	278.0	291.4	232.0	206.7	339.2	531.2	514.1	343.8
67.5°	103.1	110.5	146.4	209.0	231.5	169.4	98.0	126.6	146.4	146.4	99.4
70°	62.6	66.3	97.6	142.2	158.8	109.1	71.3	71.3	70.4	69.0	59.4
72.5°	29.9	32.2	49.7	73.2	74.6	57.5	55.2	60.3	58.9	58.5	49.2
75°	12.9	13.8	17.5	23.0	26.2	24.4	33.6	43.3	44.6	43.3	35.4
77.5°	4.1	4.6	6.4	8.3	8.7	10.6	14.3	18.0	20.7	19.3	17.5
80°	0.5	0.9	1.8	4.1	6.4	8.3	10.6	12.0	13.3	13.3	12.4
82.5°	0.5	0.5	1.8	3.7	6.0	7.8	10.1	11.5	13.3	13.8	12.9
85°	0.0	0.5	1.4	3.2	5.1	5.1	4.6	4.6	3.2	3.2	3.2
87.5°	0.0	0.0	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9
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°	415.6	415.6	415.6	415.6	415.6	415.6	415.6	415.6	415.6	415.6	415.6
2.5°	419.3	418.4	406.0	398.1	394.0	385.7	380.6	377.0	374.2	371.0	371.4
5°	424.8	421.6	400.9	386.6	369.6	360.4	352.6	346.1	342.0	341.1	339.2
7.5°	440.5	423.5	392.2	366.4	344.7	335.5	328.6	324.5	326.3	322.2	325.4
10°	452.5	427.1	381.6	344.3	322.7	315.7	312.1	315.3	319.9	318.1	315.7
12.5°	467.2	430.8	364.5	323.1	302.9	297.8	304.2	310.2	319.4	323.1	318.5
15°	483.8	435.0	342.9	298.7	285.8	290.0	301.0	311.6	320.8	325.4	328.2
17.5°	504.0	433.6	321.7	279.4	269.7	281.7	295.0	304.7	318.5	325.4	323.6
20°	522.9	429.0	298.3	260.1	260.5	271.6	282.6	298.3	305.6	314.8	311.6
22.5°	540.8	420.7	273.9	246.7	246.7	263.7	269.3	279.4	285.8	290.4	290.0
25°	566.1	405.0	253.6	233.8	239.3	250.4	255.0	258.2	255.5	259.1	259.6
27.5°	584.1	388.9	237.0	222.3	232.4	240.7	239.3	237.5	231.1	226.0	229.2
30°	603.4	370.1	222.8	214.5	220.0	227.4	221.9	216.3	206.2	197.9	198.4
32.5°	631.0	361.3	210.3	205.3	212.6	213.6	207.6	199.3	189.2	181.3	180.9
35°	682.6	355.8	199.8	199.3	200.7	201.1	195.2	185.0	180.9	174.4	176.7
37.5°	734.1	353.0	192.4	190.6	190.1	190.6	183.7	174.0	181.8	181.3	182.3
40°	800.0	365.5	181.8	179.5	180.0	180.0	171.2	168.5	182.3	183.7	184.1
42.5°	866.7	381.1	174.9	167.5	169.4	169.4	164.8	161.6	171.2	162.0	160.6
45°	924.7	404.1	167.5	155.6	160.2	162.5	161.1	155.6	149.6	133.9	133.9
47.5°	943.6	424.4	158.8	144.1	147.7	157.9	153.7	142.2	131.6	118.8	117.8
50°	976.7	446.5	151.9	130.7	138.5	151.0	146.8	135.3	123.4	114.1	114.6
52.5°	1010.8	471.8	139.0	115.1	124.7	145.4	145.4	132.6	114.1	107.7	106.8
55°	1061.9	470.9	116.0	94.4	111.4	137.2	139.5	118.8	102.2	97.1	97.1
56°	1069.2	449.7	104.5	88.4	105.4	134.9	135.3	115.1	97.6	92.1	92.1
57.5°	1014.0	406.0	91.6	81.0	98.0	130.7	131.2	111.8	93.9	86.1	85.2
60°	780.2	274.8	76.4	72.3	88.8	117.8	120.1	101.7	82.4	76.4	75.9
62.5°	440.5	152.4	67.2	65.4	76.4	100.3	107.2	88.8	70.0	66.7	67.7
65°	201.1	83.8	56.6	52.9	61.7	77.3	86.5	73.2	57.5	53.9	53.9
67.5°	73.6	57.1	48.3	41.9	43.3	50.2	56.2	47.4	38.2	32.7	34.1
70°	52.5	47.9	42.3	36.4	33.6	32.7	32.2	26.7	18.9	14.7	15.6
72.5°	42.3	39.6	35.4	30.8	26.2	22.1	18.9	13.8	8.7	6.0	5.5
75°	30.4	29.0	25.8	22.1	18.4	15.6	12.9	8.7	4.6	2.3	2.3
77.5°	15.6	15.6	15.2	13.8	11.5	9.2	7.4	5.1	2.8	0.9	0.9
80°	12.0	12.9	13.3	12.0	10.6	8.3	6.0	3.7	1.8	0.5	0.5
82.5°	11.5	13.3	14.3	12.4	10.6	7.8	6.0	3.7	1.8	0.5	0.5
85°	2.8	2.8	4.1	4.6	6.0	6.4	5.1	3.2	1.4	0.5	0.5
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	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)