

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: P526110

Luminaire Tested: **GALN-SA1A-735-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526110
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-735-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3788 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

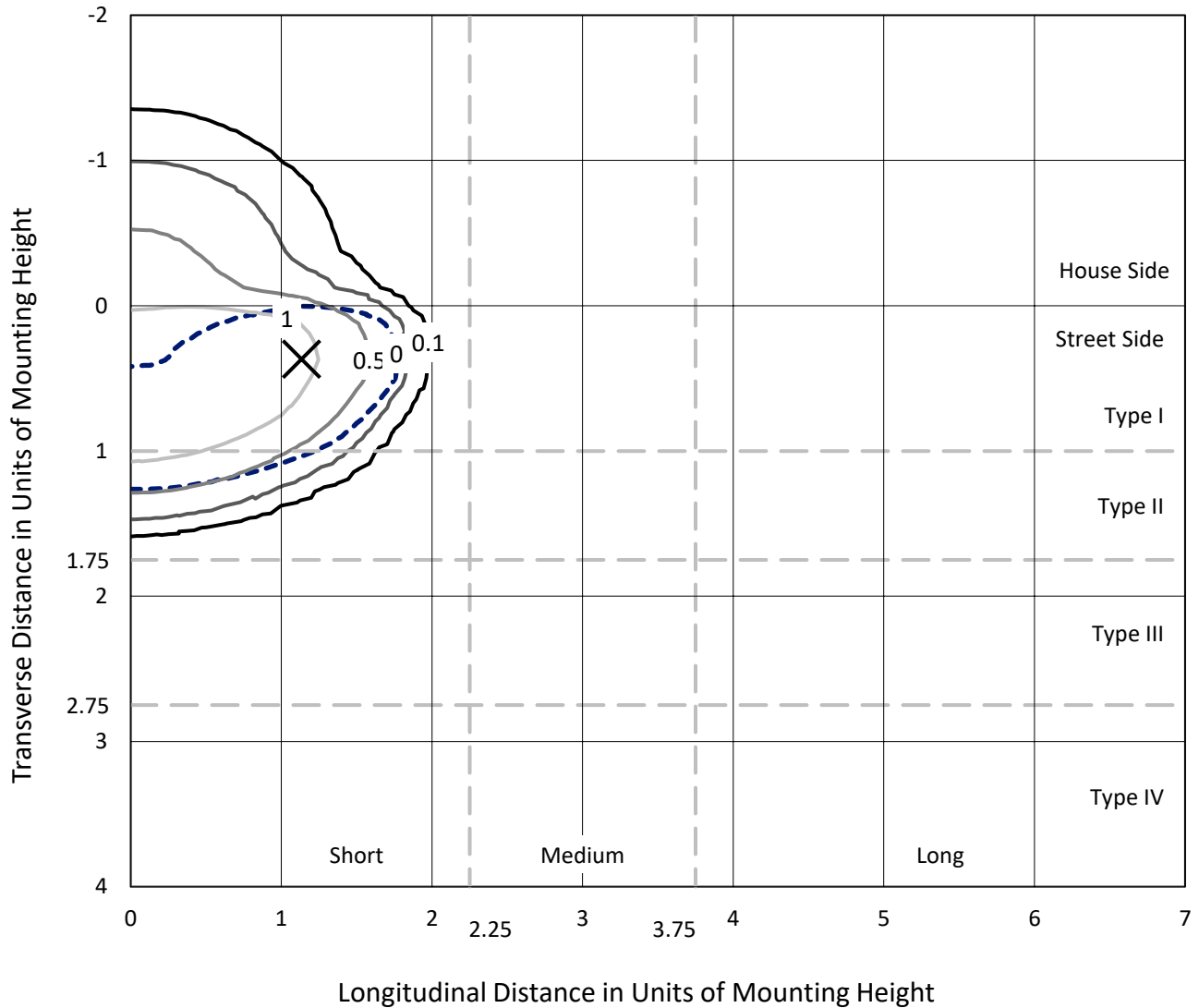
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

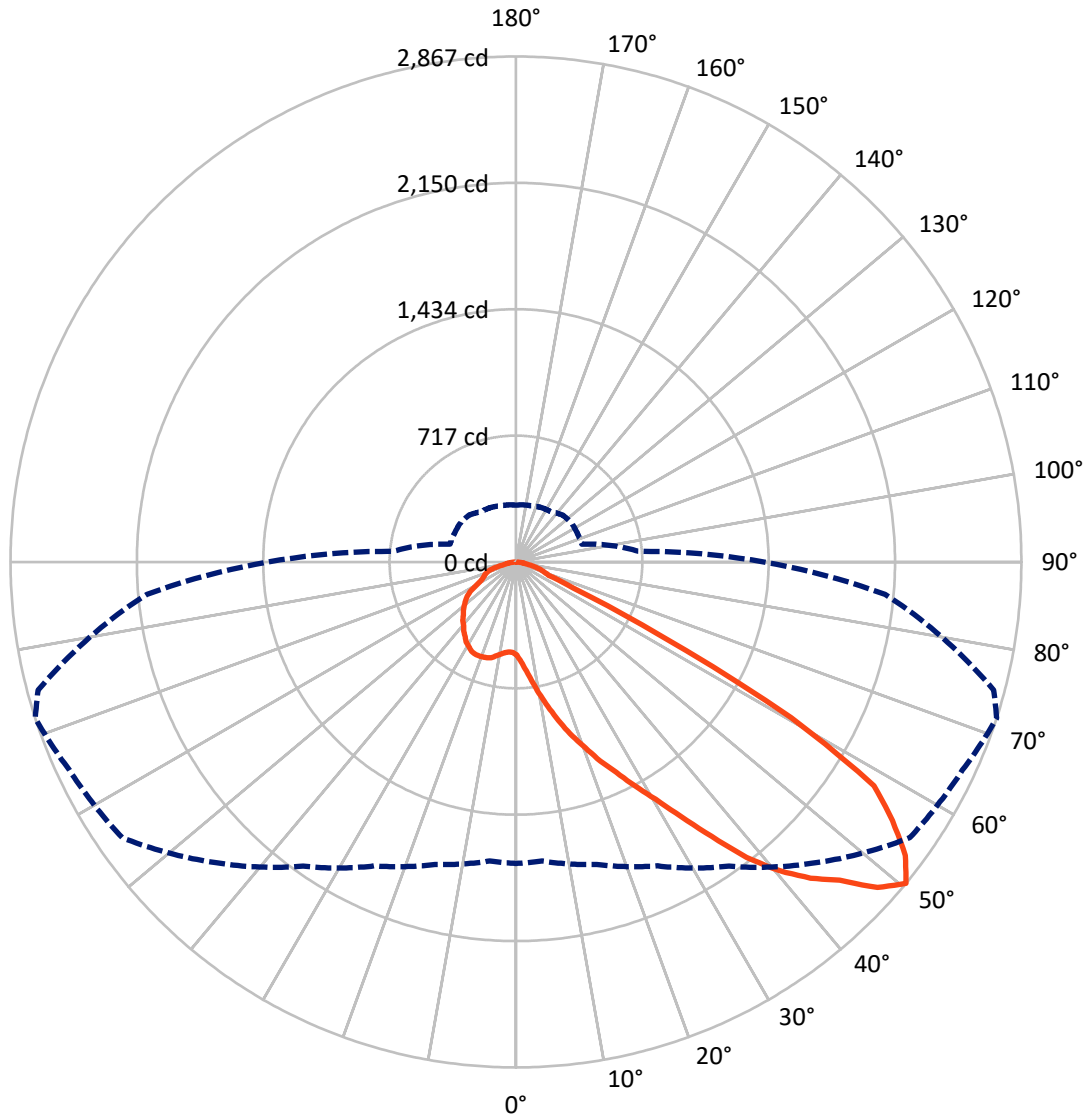
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	867.8	0.0	867.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	2920.1	0.0	2920.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	3788.0	0.0	3788.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.0	1.6
10°-20°	231.9	6.1
20°-30°	449.6	11.9
30°-40°	744.8	19.7
40°-50°	1042.2	27.5
50°-60°	879.2	23.2
60°-70°	268.0	7.1
70°-80°	94.0	2.5
80°-90°	16.3	0.4
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°	3788.0	100.0
0°-180°	3788.0	100.0

Coefficient of Utilization

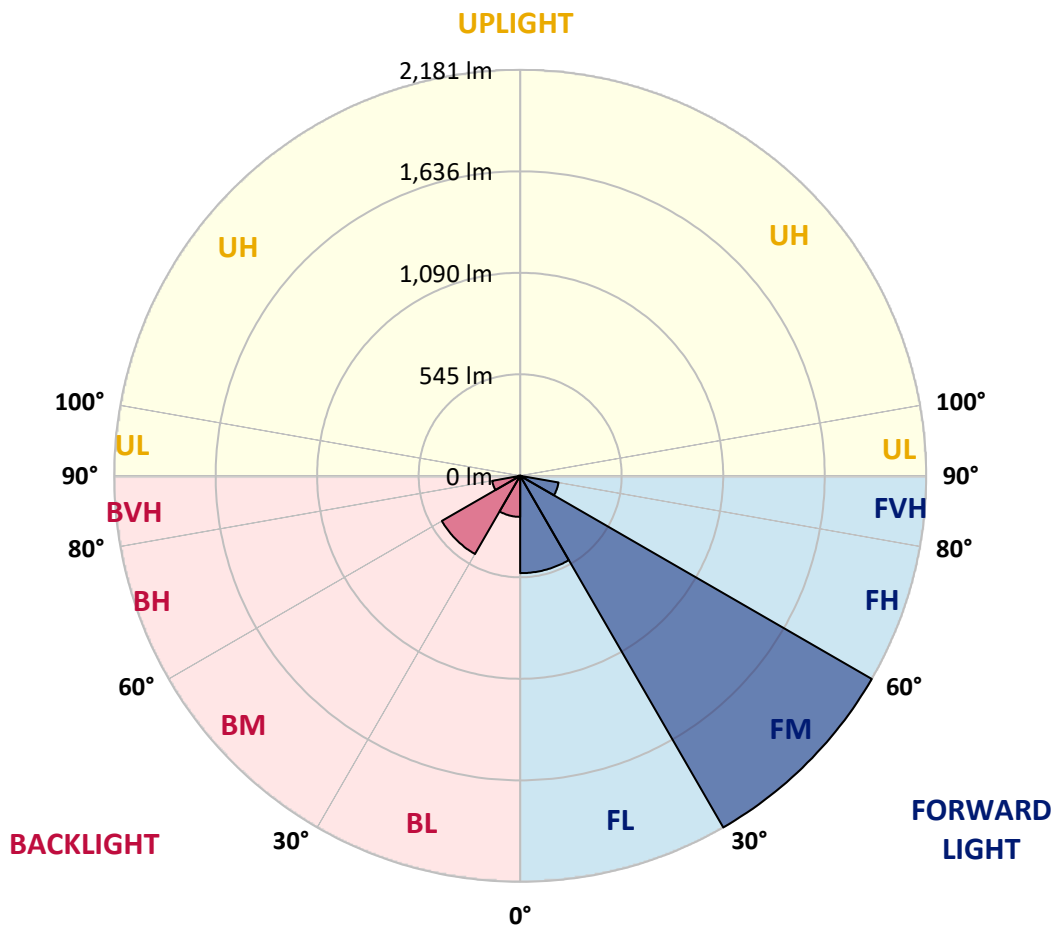


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	522.9	13.8			
FM (30°-60°)	2180.9	57.6			
FH (60°-80°)	209.1	5.5			G0/660
FVH (80°-90°)	7.3	0.2			G0/10
BL (0°-30°)	220.6	5.8	B1/500		
BM (30°-60°)	485.3	12.8	B1/1000		
BH (60°-80°)	152.9	4.0	B1/500		G1/500
BVH (80°-90°)	9.0	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	527.3	527.3	527.3	527.3	527.3	527.3	527.3	527.3	527.3	527.3	527.3
2.5°	678.3	674.0	661.4	657.2	642.2	615.0	605.6	577.9	566.2	555.4	542.8
5°	857.8	838.1	836.7	812.8	778.1	757.9	697.9	657.6	620.6	601.9	567.2
7.5°	972.1	972.6	972.6	952.9	925.3	874.2	820.3	747.6	691.8	664.2	605.1
10°	1080.9	1071.5	1066.4	1064.5	1045.7	996.1	938.4	848.4	772.0	739.7	633.7
12.5°	1157.8	1149.8	1161.5	1155.4	1141.8	1109.5	1055.1	952.5	856.8	813.2	679.7
15°	1194.3	1200.0	1209.3	1226.2	1220.1	1207.9	1147.9	1059.3	948.2	899.0	720.4
17.5°	1250.6	1235.1	1246.4	1267.4	1284.3	1278.7	1244.5	1136.7	1038.7	978.2	775.3
20°	1289.9	1281.0	1286.7	1311.0	1323.7	1355.6	1337.8	1237.9	1125.4	1061.7	840.0
22.5°	1402.4	1389.3	1371.0	1374.8	1379.5	1402.0	1406.2	1349.0	1226.2	1158.7	901.4
25°	1541.2	1529.0	1507.4	1485.4	1471.8	1467.6	1482.1	1436.2	1322.8	1252.9	967.5
27.5°	1694.0	1673.4	1659.8	1614.3	1577.7	1572.1	1565.1	1540.2	1437.1	1361.7	1042.0
30°	1842.6	1826.2	1807.9	1735.2	1697.3	1691.2	1656.5	1663.5	1561.3	1477.4	1126.4
32.5°	1955.1	1956.5	1914.8	1859.9	1824.3	1792.0	1779.3	1799.5	1720.7	1653.2	1220.6
35°	2046.0	2050.2	2010.4	1960.7	1922.3	1944.8	1939.1	1948.5	1911.0	1828.5	1330.3
37.5°	2134.6	2113.5	2070.9	2046.9	2026.8	2063.8	2111.6	2119.6	2126.6	2029.6	1457.8
40°	2149.1	2151.0	2126.2	2143.0	2117.7	2173.5	2284.6	2274.3	2302.9	2218.0	1596.0
42.5°	2128.5	2132.7	2142.6	2166.5	2227.4	2294.4	2459.4	2417.2	2451.9	2376.5	1730.6
45°	2094.8	2077.4	2089.6	2180.5	2286.0	2435.1	2619.3	2586.5	2575.2	2511.9	1890.9
47.5°	1933.5	1951.3	1989.3	2101.3	2259.8	2459.4	2732.7	2725.2	2758.9	2714.4	2036.6
50°	1709.9	1702.9	1776.0	1902.1	2106.5	2411.6	2726.6	2794.6	2867.2	2805.4	2101.8
52.5°	1280.6	1318.1	1380.9	1537.4	1829.0	2151.0	2593.5	2706.9	2766.0	2752.9	2049.3
55°	809.5	820.7	858.7	1044.8	1307.3	1726.3	2223.2	2486.1	2591.6	2640.8	2001.0
57.5°	393.3	372.2	418.6	568.1	755.1	1161.0	1714.6	2165.5	2394.7	2483.8	1896.0
60°	205.3	213.3	231.6	285.0	390.5	602.8	1068.7	1443.2	1793.4	1930.2	1437.1
62.5°	170.1	173.0	185.1	211.9	259.7	346.9	545.6	703.6	914.5	1037.8	817.5
65°	144.4	145.8	158.9	176.7	207.2	244.2	280.8	293.9	355.8	365.1	290.6
67.5°	120.5	121.9	135.9	152.8	172.5	182.3	191.7	190.8	197.8	195.0	194.5
70°	92.8	94.2	108.7	126.6	136.4	130.8	159.8	166.4	169.2	171.6	175.3
72.5°	67.0	69.8	81.1	93.7	88.6	101.7	131.7	141.6	145.3	146.7	151.4
75°	48.7	49.7	52.5	48.7	56.2	70.8	92.8	105.0	109.7	111.1	118.1
77.5°	21.6	22.0	22.5	28.1	36.1	44.1	55.3	65.2	71.7	73.6	75.5
80°	11.2	11.7	14.5	19.2	25.8	32.3	40.3	45.9	50.2	50.6	52.5
82.5°	7.0	7.5	10.3	13.6	18.3	23.9	29.5	34.2	37.5	38.0	38.4
85°	3.3	4.2	6.1	8.4	12.2	15.5	15.9	13.6	14.5	15.0	14.1
87.5°	0.9	1.4	1.9	1.4	1.9	1.9	2.3	2.8	2.8	2.8	3.3
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°	527.3	527.3	527.3	527.3	527.3	527.3	527.3	527.3	527.3	527.3	527.3
2.5°	535.8	531.5	515.1	509.0	493.1	495.9	487.5	487.0	485.1	484.7	484.2
5°	548.9	535.8	516.1	501.1	492.2	491.2	485.1	485.1	487.0	488.4	485.1
7.5°	570.4	555.4	522.2	508.1	500.1	498.7	494.5	491.2	495.4	494.0	490.3
10°	595.3	569.0	533.9	521.7	508.6	505.3	505.3	506.7	499.7	502.0	498.3
12.5°	622.9	587.8	548.9	534.8	519.4	517.5	516.5	506.2	510.0	508.1	498.7
15°	658.1	609.3	568.1	544.2	531.1	522.6	510.4	508.6	506.2	501.5	497.3
17.5°	696.1	632.8	577.0	547.0	527.3	521.2	511.9	502.0	495.0	495.9	492.6
20°	728.4	654.3	580.3	549.8	524.5	512.8	498.3	492.2	484.7	484.2	483.7
22.5°	766.8	683.4	585.0	542.3	516.1	503.9	494.0	483.3	478.1	471.5	474.8
25°	812.8	694.7	585.9	538.1	510.0	488.4	483.3	471.5	469.7	460.3	462.2
27.5°	846.1	700.8	578.4	525.0	495.9	479.5	470.1	461.7	458.4	451.4	449.5
30°	890.6	710.1	562.5	508.6	481.9	463.6	457.9	456.1	446.7	439.2	438.3
32.5°	941.2	716.2	552.2	491.7	467.3	453.3	456.1	447.2	435.5	428.9	427.0
35°	981.5	718.6	526.4	472.5	457.5	448.6	445.3	443.4	426.5	420.5	415.8
37.5°	1042.9	713.4	504.8	458.9	446.7	443.4	440.6	428.0	408.7	399.8	393.3
40°	1114.6	712.0	477.2	439.7	436.4	440.1	431.7	412.0	385.3	375.5	370.8
42.5°	1183.5	721.8	459.8	429.4	425.1	426.5	414.8	385.3	372.2	366.5	359.0
45°	1298.9	742.5	431.2	413.4	411.5	410.6	396.5	365.6	358.1	351.1	349.7
47.5°	1402.9	728.9	413.0	397.0	398.9	393.7	363.7	353.9	345.5	338.4	336.1
50°	1409.0	696.5	387.2	384.4	384.8	375.9	347.3	340.8	330.0	325.3	322.0
52.5°	1377.1	643.6	363.3	364.2	365.6	351.1	327.2	322.5	313.6	307.0	305.1
55°	1287.6	561.1	339.8	343.6	347.3	319.7	312.2	300.5	293.4	284.1	284.5
57.5°	1134.3	451.9	307.0	313.1	321.1	290.6	285.0	270.5	260.1	252.6	251.7
60°	760.3	321.5	257.8	260.1	278.0	265.8	265.3	250.8	236.7	230.1	226.4
62.5°	448.6	245.6	222.6	220.3	219.8	226.9	238.6	233.4	215.1	202.5	206.2
65°	234.8	212.3	207.2	199.2	194.5	192.6	201.6	203.9	191.7	178.1	177.2
67.5°	197.3	197.3	193.1	190.3	183.7	175.8	170.1	162.6	160.8	157.0	152.3
70°	179.5	184.2	182.8	176.2	170.6	161.7	147.2	135.0	123.3	119.1	121.9
72.5°	156.6	161.2	161.2	158.0	150.5	136.9	122.8	108.7	98.9	91.4	90.5
75°	120.5	122.8	128.4	124.7	114.8	106.4	91.9	77.3	68.0	60.9	59.5
77.5°	76.9	80.6	80.6	80.2	73.1	65.2	55.8	45.5	38.4	33.3	31.9
80°	51.1	53.4	55.3	53.4	48.7	42.7	35.6	28.6	23.4	19.2	18.3
82.5°	37.5	40.3	41.7	39.8	35.2	30.5	25.3	20.2	15.0	11.7	10.8
85°	14.5	15.0	16.9	20.2	19.7	19.2	15.5	11.2	8.4	6.1	5.6
87.5°	3.7	3.3	3.7	3.7	3.3	2.8	2.8	2.8	2.8	1.4	1.9
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)