

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: P526919

Luminaire Tested: **GALN-SA1D-827-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526919
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-827-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3500 lumens
Efficiency: N/A
Efficacy: 53.8 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

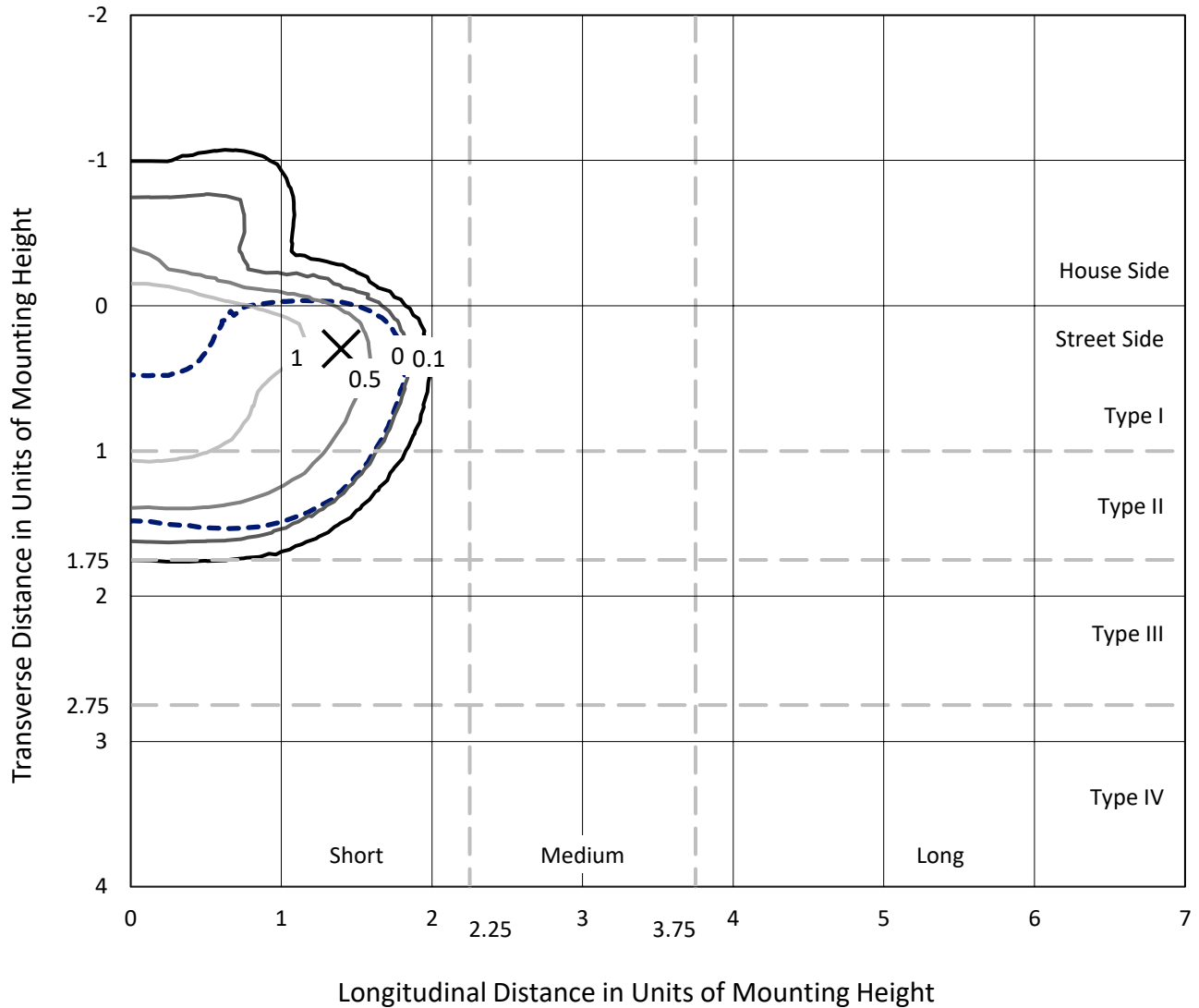
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

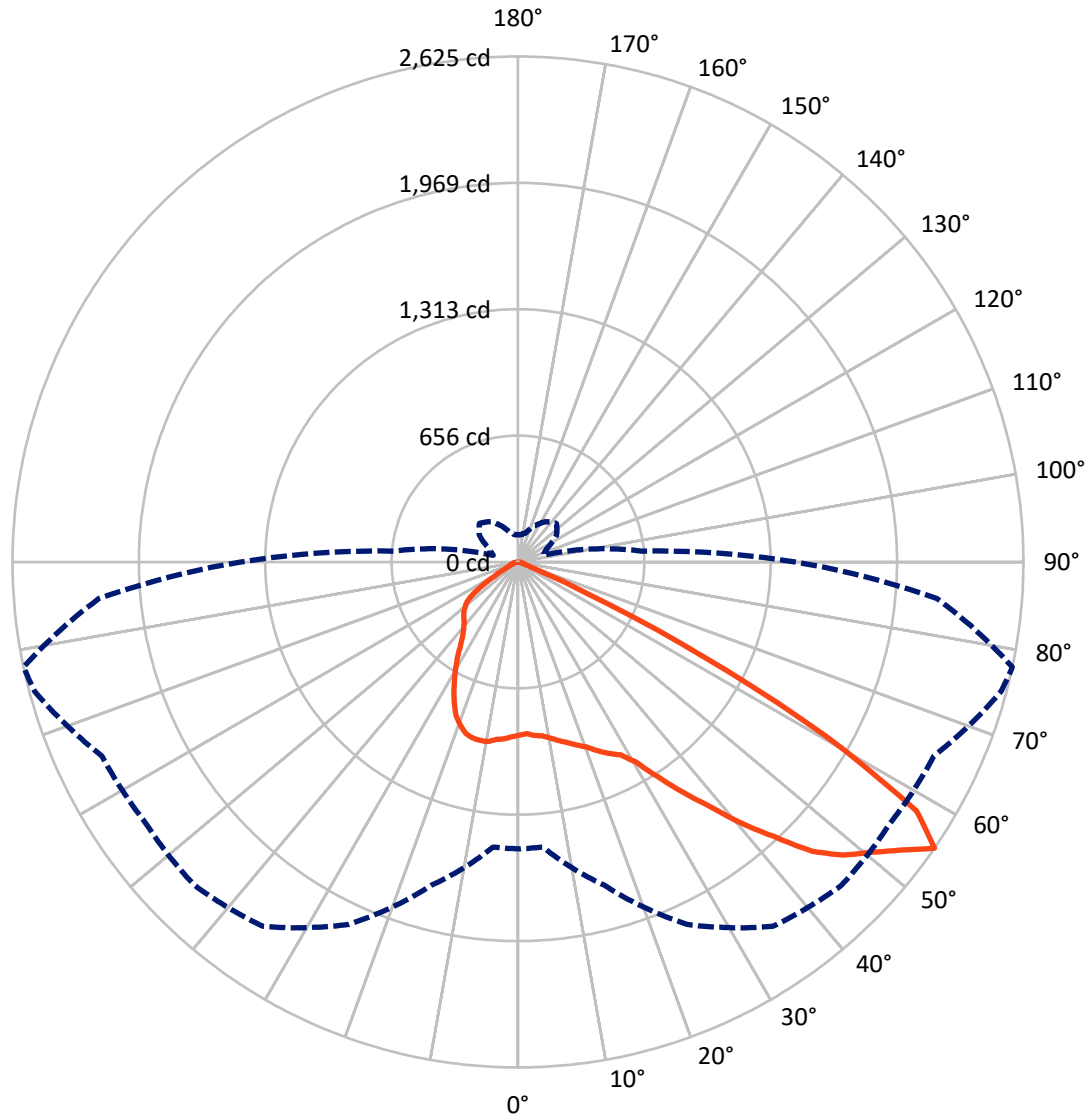
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	650.1	0.0	650.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	2849.9	0.0	2849.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	3500.0	0.0	3500.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.2	2.3
10°-20°	212.3	6.1
20°-30°	372.2	10.6
30°-40°	613.7	17.5
40°-50°	893.1	25.5
50°-60°	1011.9	28.9
60°-70°	289.3	8.3
70°-80°	22.5	0.6
80°-90°	4.7	0.1
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°	3500.0	100.0
0°-180°	3500.0	100.0

Coefficient of Utilization



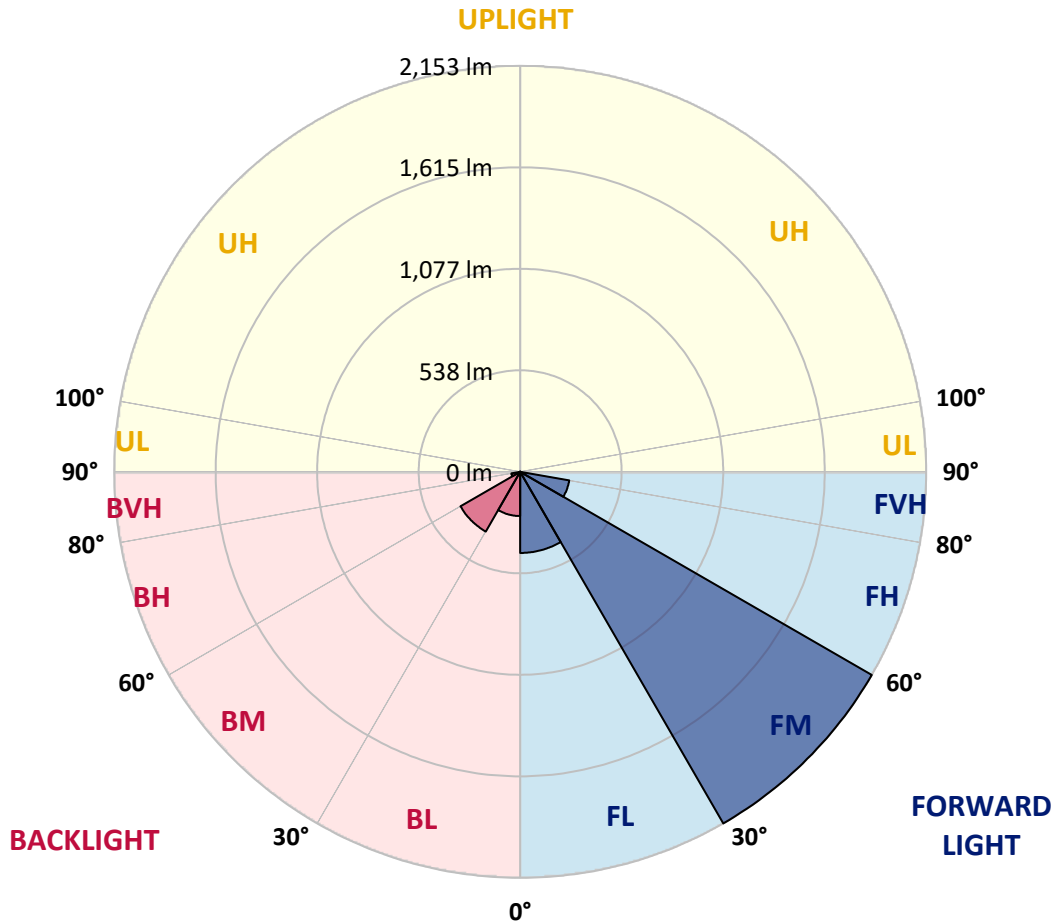
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	430.3	12.3			
FM (30°-60°)	2153.0	61.5			
FH (60°-80°)	264.3	7.6			G0/660
FVH (80°-90°)	2.3	0.1			G0/10
BL (0°-30°)	234.6	6.7	B1/500		
BM (30°-60°)	365.7	10.4	B1/1000		
BH (60°-80°)	47.5	1.4	B0/110		G0/110
BVH (80°-90°)	2.4	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°	78°	85°
0°	899.9	899.9	899.9	899.9	899.9	899.9	899.9	899.9	899.9	899.9	899.9
2.5°	846.0	854.2	855.4	865.4	864.8	881.7	886.7	887.3	898.6	893.0	907.4
5°	822.3	817.9	816.0	833.5	838.5	853.5	866.1	873.6	896.7	904.9	919.9
7.5°	801.0	801.0	802.2	817.9	816.0	835.4	848.5	871.7	905.5	912.4	930.5
10°	780.3	772.8	782.2	798.5	812.2	821.0	848.5	870.4	909.9	929.9	954.9
12.5°	769.7	773.4	774.7	786.6	801.6	827.9	842.9	879.2	941.2	953.0	980.0
15°	836.6	829.1	811.0	800.4	812.9	825.4	862.9	899.9	957.4	974.3	1004.4
17.5°	914.2	908.0	893.0	864.2	836.0	859.2	888.6	922.4	974.9	1000.0	1044.4
20°	1015.6	1005.6	990.6	934.3	909.9	884.8	916.1	956.2	1003.7	1026.3	1071.9
22.5°	1136.4	1136.4	1102.6	1034.4	983.7	959.9	973.1	996.2	1035.6	1066.3	1111.4
25°	1262.2	1258.4	1227.8	1157.0	1071.3	1043.2	1058.2	1074.4	1085.1	1102.0	1132.0
27.5°	1406.1	1384.2	1345.4	1267.2	1191.5	1137.0	1153.3	1138.9	1125.8	1134.5	1177.7
30°	1503.7	1517.5	1468.0	1393.0	1321.6	1260.9	1264.0	1251.5	1191.5	1204.0	1229.6
32.5°	1605.1	1613.9	1586.3	1545.0	1473.7	1403.0	1377.3	1366.7	1321.6	1327.3	1302.2
35°	1689.6	1706.5	1682.1	1663.9	1643.3	1586.3	1515.6	1550.0	1477.4	1463.7	1398.6
37.5°	1767.2	1762.2	1790.9	1772.2	1767.8	1727.7	1650.1	1657.0	1608.2	1605.1	1530.0
40°	1836.6	1837.9	1877.3	1886.1	1868.5	1797.2	1684.6	1739.0	1778.4	1782.2	1685.8
42.5°	1894.2	1911.1	1944.9	2015.6	1989.3	1870.4	1720.2	1779.7	1926.1	1949.3	1833.5
45°	1944.3	1978.7	2020.6	2083.8	2068.8	1974.3	1809.1	1863.5	2083.8	2144.5	1972.4
47.5°	1947.4	1992.4	2038.1	2132.0	2150.8	2030.0	1901.1	1996.2	2209.0	2274.7	2073.8
50°	1934.9	1958.6	2050.0	2152.0	2194.6	2120.7	2030.0	2107.6	2330.4	2371.7	2125.1
52.5°	1786.6	1804.7	1988.1	2170.8	2273.4	2223.3	2200.8	2262.8	2454.3	2484.9	2173.3
55°	1489.3	1486.2	1738.4	2076.3	2309.7	2375.4	2361.6	2383.5	2597.6	2625.1	2185.2
57.5°	1018.7	1075.7	1293.5	1729.0	2087.6	2339.7	2354.1	2317.8	2430.5	2441.1	1904.8
60°	549.4	573.2	748.4	1153.9	1589.4	1906.7	1944.3	1878.6	1869.8	1839.8	1359.8
62.5°	218.4	230.3	329.8	571.3	866.1	1158.9	1239.6	1212.7	1155.2	1076.3	704.0
65°	103.9	111.4	164.0	267.2	384.2	483.1	563.8	588.8	434.3	391.1	232.2
67.5°	70.7	76.3	119.5	152.7	137.0	143.3	186.5	173.3	102.0	87.0	64.5
70°	53.8	57.6	95.7	103.9	61.3	43.2	48.2	45.1	41.9	42.6	41.9
72.5°	38.2	41.3	70.1	61.3	26.9	20.0	25.7	30.7	30.7	30.7	30.0
75°	23.2	26.3	40.7	23.8	10.6	10.6	16.3	20.7	21.9	22.5	21.3
77.5°	11.9	15.0	13.8	6.9	6.9	8.1	11.9	14.4	15.6	15.6	15.0
80°	2.5	2.5	2.5	3.8	6.9	8.8	11.9	13.1	15.0	15.0	13.8
82.5°	0.0	0.6	1.9	3.8	6.3	8.1	11.3	13.1	15.0	15.6	14.4
85°	0.0	0.6	1.3	2.5	4.4	5.0	4.4	3.8	3.8	3.8	3.8
87.5°	0.0	0.0	0.6	0.6	0.6	1.3	1.3	1.3	1.3	1.3	1.3
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°	899.9	899.9	899.9	899.9	899.9	899.9	899.9	899.9	899.9	899.9	899.9
2.5°	908.6	910.5	907.4	906.7	904.2	911.7	893.6	889.2	900.5	889.8	892.3
5°	920.5	924.9	919.3	909.9	896.1	874.8	856.7	832.9	821.6	813.5	812.2
7.5°	929.3	932.4	926.8	896.7	855.4	801.6	761.6	732.1	709.0	702.1	690.8
10°	964.9	965.6	937.4	871.1	790.3	719.6	658.3	613.3	590.1	575.7	569.4
12.5°	988.7	987.5	930.5	820.4	712.7	618.9	548.8	494.4	473.1	466.2	461.8
15°	1018.7	1011.9	914.2	768.4	612.6	511.3	448.0	410.5	408.6	404.2	408.6
17.5°	1042.5	1023.1	890.5	674.0	516.9	421.1	379.8	382.3	387.3	391.7	392.4
20°	1081.3	1041.3	836.0	591.3	428.0	361.1	360.4	371.7	384.2	389.2	394.2
22.5°	1110.7	1048.8	777.8	503.1	355.4	336.7	347.3	364.2	373.6	378.6	386.1
25°	1121.4	1028.1	700.2	414.9	320.4	325.4	341.7	352.9	364.8	370.5	367.3
27.5°	1132.0	1017.5	607.6	341.7	301.6	317.9	331.7	342.9	346.7	354.2	359.2
30°	1157.7	980.6	524.4	295.4	292.2	312.9	322.9	326.7	336.7	341.0	341.0
32.5°	1178.3	966.2	436.2	273.5	291.0	315.4	316.6	316.6	317.9	314.8	313.5
35°	1220.9	916.7	357.3	260.3	290.4	316.0	319.1	308.5	279.7	268.5	265.3
37.5°	1273.4	884.8	299.1	257.2	294.7	323.5	328.5	288.5	250.9	232.8	229.7
40°	1337.3	862.3	260.9	255.9	304.7	341.0	326.0	272.8	224.0	197.7	196.5
42.5°	1411.7	841.7	235.3	255.3	317.3	359.2	323.5	259.7	196.5	179.0	181.5
45°	1471.2	830.4	217.8	250.9	321.6	369.8	325.4	236.5	185.2	174.0	175.2
47.5°	1517.5	806.6	203.4	243.4	321.0	373.6	308.5	227.2	179.6	182.7	185.9
50°	1518.7	774.7	185.2	227.2	311.6	366.7	289.1	218.4	178.3	191.5	197.7
52.5°	1501.8	729.6	165.8	204.0	289.7	342.9	271.6	214.6	172.7	171.5	179.0
55°	1441.8	645.2	133.3	165.2	244.7	282.8	255.9	207.8	155.8	141.4	142.7
57.5°	1165.2	462.4	98.2	118.3	173.3	207.1	230.9	204.6	140.2	120.1	120.8
60°	721.5	262.2	72.0	80.7	107.0	125.8	187.1	190.2	125.2	101.4	100.1
62.5°	370.5	129.5	55.7	56.9	65.7	73.8	128.3	159.6	113.3	96.4	96.4
65°	123.9	63.8	48.8	43.8	43.8	45.7	77.6	110.8	95.7	80.7	80.7
67.5°	53.2	47.6	42.6	38.2	35.0	33.2	43.8	64.5	71.3	61.3	58.8
70°	41.3	40.0	36.9	31.9	27.5	25.0	25.7	33.2	40.7	39.4	38.2
72.5°	30.7	30.7	29.4	25.0	21.3	18.1	16.9	17.5	19.4	20.0	20.7
75°	21.3	21.9	21.9	19.4	15.6	13.1	11.3	9.4	7.5	6.3	5.6
77.5°	14.4	15.0	16.3	14.4	11.9	8.8	6.9	5.0	3.1	1.3	1.3
80°	12.5	14.4	15.6	14.4	12.5	9.4	6.9	3.8	1.9	0.0	0.0
82.5°	13.1	14.4	16.3	13.8	11.9	8.8	6.9	4.4	1.9	0.6	0.0
85°	3.1	3.1	3.8	4.4	5.6	6.3	5.0	3.1	1.9	0.6	0.0
87.5°	1.3	1.3	1.3	1.3	1.3	0.6	0.6	0.6	0.6	0.0	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)