

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: P531385

Luminaire Tested: **GALN-SA6C-830-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531385
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-SA6C-830-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

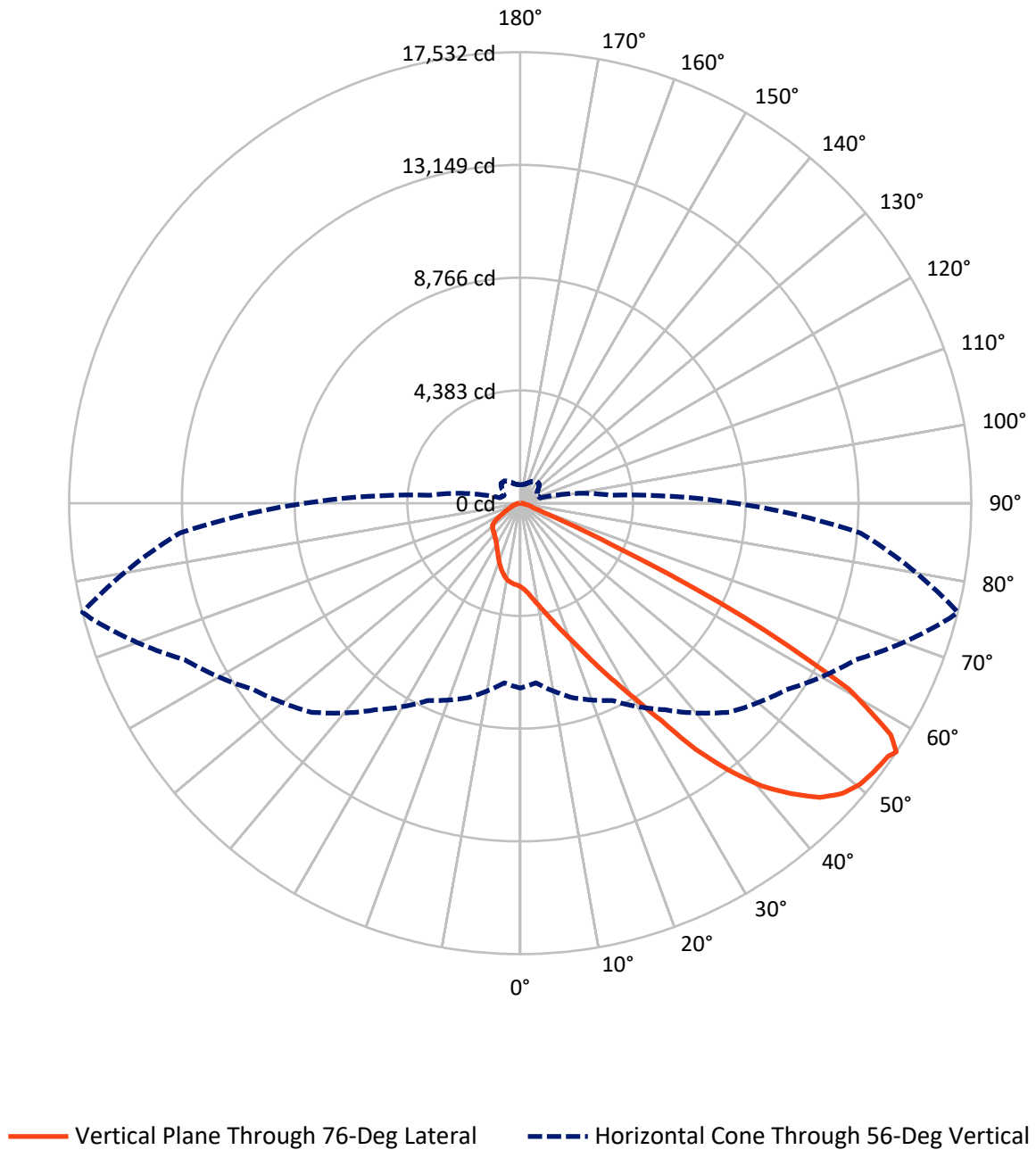
Lumens per Lamp: N/A
Luminaire Lumens: 19542 lumens
Efficiency: N/A
Efficacy: 60.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 321
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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Luminous Intensity Polar Plot



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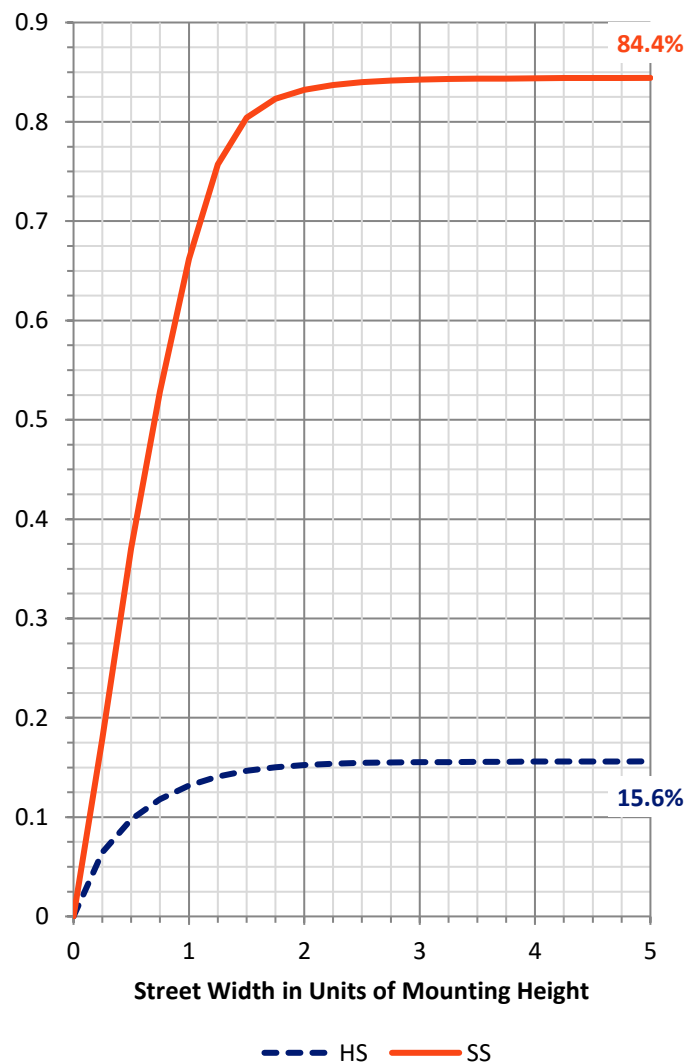
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3069.9	0.0	3069.9
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	16472.0	0.0	16472.0
	% Fixture	84.3	0.0	84.3
Total	Lumens	19542.0	0.0	19542.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.7	1.7
10°-20°	1052.7	5.4
20°-30°	1908.8	9.8
30°-40°	3291.9	16.8
40°-50°	5347.7	27.4
50°-60°	5636.7	28.8
60°-70°	1722.2	8.8
70°-80°	220.8	1.1
80°-90°	33.5	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°	19542.0	100.0
0°-180°	19542.0	100.0

Coefficient of Utilization



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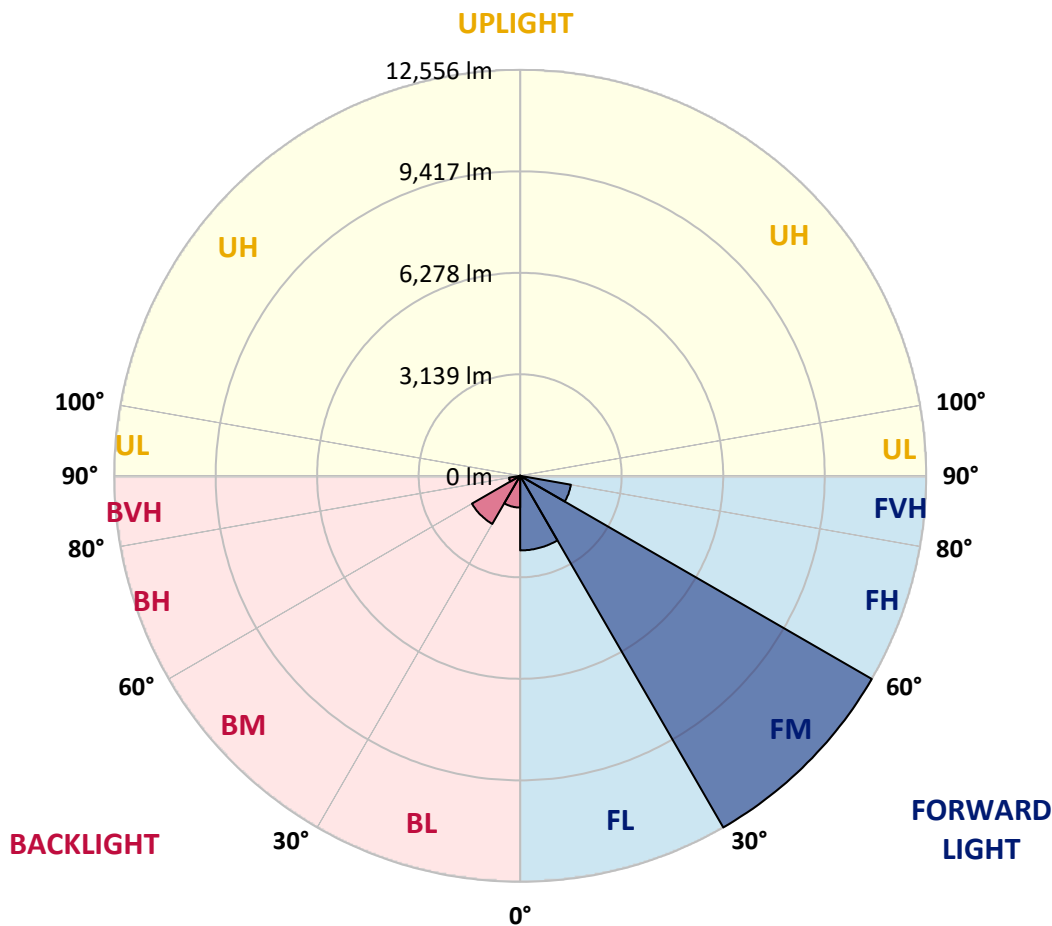
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2307.1	11.8			
FM	(30°-60°)	12555.7	64.2			
FH	(60°-80°)	1592.8	8.2			G1/1800
FVH	(80°-90°)	16.4	0.1			G1/100
BL	(0°-30°)	982.1	5.0	B2/1000		
BM	(30°-60°)	1720.5	8.8	B2/2500		
BH	(60°-80°)	350.2	1.8	B1/500		G1/500
BVH	(80°-90°)	17.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3252.8	3252.8	3252.8	3252.8	3252.8	3252.8	3252.8	3252.8	3252.8	3252.8	3252.8
2.5°	3746.3	3659.8	3663.4	3656.2	3645.4	3605.8	3486.9	3468.9	3389.7	3368.1	3296.0
5°	4196.6	4120.9	4164.2	4099.3	4038.1	4002.1	3807.5	3717.5	3591.4	3544.6	3443.7
7.5°	4477.5	4441.5	4427.1	4430.7	4373.1	4283.0	4196.6	3998.5	3829.1	3793.1	3580.6
10°	4614.4	4592.8	4614.4	4603.6	4628.8	4639.6	4488.4	4369.5	4120.9	4059.7	3728.3
12.5°	4646.9	4690.1	4708.1	4754.9	4816.2	4920.6	4909.8	4747.7	4416.3	4376.7	3955.2
15°	4726.1	4762.1	4744.1	4819.8	4935.0	5111.5	5205.2	5180.0	4823.4	4751.3	4218.2
17.5°	4798.1	4733.3	4794.5	4945.8	5061.1	5331.3	5558.2	5662.7	5266.4	5183.6	4459.5
20°	4895.4	4877.4	4866.6	4942.2	5147.6	5507.8	5958.1	6149.0	5763.5	5677.1	4805.3
22.5°	5190.8	5194.4	5187.2	5075.5	5223.2	5630.3	6307.5	6779.4	6357.9	6285.9	5198.0
25°	5579.8	5533.0	5497.0	5406.9	5388.9	5741.9	6660.5	7550.2	7071.1	7020.7	5623.0
27.5°	5990.5	5990.5	5882.4	5799.6	5684.3	6019.3	6984.7	8299.5	7932.1	7863.6	5994.1
30°	6437.1	6462.4	6448.0	6271.4	6199.4	6321.9	7316.1	9257.7	8919.1	8832.6	6606.5
32.5°	7096.4	7042.3	7103.6	6955.9	6743.3	6851.4	7838.4	10115.0	10201.5	10079.0	7409.7
35°	7968.1	7935.7	7896.0	7654.7	7402.5	7489.0	8576.9	11170.5	11811.6	11750.4	8220.2
37.5°	8749.8	8731.8	8699.3	8533.6	8241.9	8346.3	9416.2	12269.1	13382.2	13180.5	9365.7
40°	9571.1	9668.3	9563.9	9416.2	9149.6	9380.2	10403.2	12921.1	14704.2	14459.3	10241.1
42.5°	10684.2	10608.5	10655.3	10385.2	10241.1	10493.2	11393.8	13573.1	15730.8	15439.1	11170.5
45°	11869.3	11872.9	11746.8	11660.4	11285.7	11559.5	12002.6	13933.3	16548.6	16321.6	11872.9
47.5°	12629.3	12625.7	12762.6	12899.5	12514.1	12243.9	12416.8	14275.6	16970.0	16865.5	12128.6
50°	12510.5	12546.5	12723.0	13234.5	13436.2	13072.4	12805.9	14174.7	17160.9	17150.1	12348.4
52.5°	10882.3	11001.1	11296.5	12035.0	13050.8	13501.1	13212.9	14362.0	17254.6	17272.6	12676.2
55°	8285.1	8349.9	8911.9	9808.8	10932.7	12474.5	13050.8	14509.7	17326.6	17359.0	13072.4
56°	7186.4	7013.5	7824.0	8461.6	9805.2	11491.0	12640.2	14394.4	17283.4	17532.0	13270.5
57.5°	5424.9	5309.7	5965.3	6761.3	8054.5	9834.0	11365.0	13850.5	16991.6	16988.0	12986.0
60°	3299.6	3184.4	3688.7	4156.9	4881.0	6055.3	7679.9	11030.0	14365.6	14668.2	10514.8
62.5°	1963.2	2035.2	2532.4	2816.9	3051.1	3173.5	3973.2	6556.0	9585.5	9801.6	6523.6
65°	1307.6	1332.8	1707.4	2175.7	2280.2	1815.5	1617.4	2654.8	4156.9	4023.7	2690.9
67.5°	806.9	864.5	1145.5	1635.4	1811.9	1325.6	767.3	990.6	1145.5	1145.5	778.1
70°	489.9	518.7	763.7	1113.1	1242.8	853.7	558.3	558.3	551.1	540.3	464.7
72.5°	234.1	252.2	389.0	572.8	583.6	450.3	432.3	471.9	461.1	457.5	385.4
75°	100.9	108.1	136.9	180.1	205.3	190.9	263.0	338.6	349.4	338.6	277.4
77.5°	32.4	36.0	50.4	64.8	68.4	82.9	111.7	140.5	162.1	151.3	136.9
80°	3.6	7.2	14.4	32.4	50.4	64.8	82.9	93.7	104.5	104.5	97.3
82.5°	3.6	3.6	14.4	28.8	46.8	61.2	79.2	90.1	104.5	108.1	100.9
85°	0.0	3.6	10.8	25.2	39.6	39.6	36.0	36.0	25.2	25.2	25.2
87.5°	0.0	0.0	3.6	3.6	3.6	7.2	7.2	7.2	7.2	7.2	7.2
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°	3252.8	3252.8	3252.8	3252.8	3252.8	3252.8	3252.8	3252.8	3252.8	3252.8	3252.8
2.5°	3281.6	3274.4	3177.1	3115.9	3083.5	3018.7	2979.0	2950.2	2928.6	2903.4	2907.0
5°	3324.8	3299.6	3137.5	3025.9	2892.6	2820.5	2759.3	2708.9	2676.4	2669.2	2654.8
7.5°	3447.3	3314.0	3069.1	2867.4	2698.1	2626.0	2572.0	2539.6	2554.0	2521.5	2546.8
10°	3541.0	3342.9	2986.2	2694.5	2525.1	2471.1	2442.3	2467.5	2503.5	2489.1	2471.1
12.5°	3656.2	3371.7	2853.0	2528.8	2370.3	2330.6	2381.1	2427.9	2499.9	2528.8	2492.7
15°	3785.9	3404.1	2683.6	2337.8	2237.0	2269.4	2355.8	2438.7	2510.7	2546.8	2568.4
17.5°	3944.4	3393.3	2517.9	2186.5	2110.9	2204.6	2309.0	2384.7	2492.7	2546.8	2532.4
20°	4092.1	3357.3	2334.2	2035.2	2038.9	2125.3	2211.8	2334.2	2391.9	2463.9	2438.7
22.5°	4232.6	3292.4	2143.3	1930.8	1930.8	2064.1	2107.3	2186.5	2237.0	2273.0	2269.4
25°	4430.7	3169.9	1984.8	1829.9	1873.1	1959.6	1995.6	2020.8	1999.2	2028.0	2031.6
27.5°	4571.2	3043.9	1855.1	1739.9	1819.1	1884.0	1873.1	1858.7	1808.3	1768.7	1793.9
30°	4722.5	2896.2	1743.5	1678.6	1721.9	1779.5	1736.3	1693.0	1613.8	1549.0	1552.6
32.5°	4938.6	2827.7	1646.2	1606.6	1664.2	1671.4	1624.6	1559.8	1480.5	1419.3	1415.7
35°	5342.1	2784.5	1563.4	1559.8	1570.6	1574.2	1527.3	1448.1	1415.7	1365.2	1383.2
37.5°	5745.5	2762.9	1505.7	1491.3	1487.7	1491.3	1437.3	1361.6	1422.9	1419.3	1426.5
40°	6260.6	2860.2	1422.9	1404.9	1408.5	1408.5	1340.0	1318.4	1426.5	1437.3	1440.9
42.5°	6783.0	2982.6	1368.8	1311.2	1325.6	1325.6	1289.6	1264.4	1340.0	1268.0	1257.2
45°	7236.8	3162.7	1311.2	1217.5	1253.6	1271.6	1260.8	1217.5	1170.7	1048.2	1048.2
47.5°	7384.5	3321.2	1242.8	1127.5	1156.3	1235.6	1203.1	1113.1	1030.2	929.4	922.2
50°	7643.9	3494.1	1188.7	1023.0	1084.3	1181.5	1149.1	1059.0	965.4	893.3	897.0
52.5°	7910.5	3692.3	1087.9	900.6	976.2	1138.3	1138.3	1037.4	893.3	842.9	835.7
55°	8310.3	3685.1	907.8	738.5	871.7	1073.5	1091.5	929.4	799.7	760.1	760.1
56°	8367.9	3519.4	817.7	691.6	824.9	1055.4	1059.0	900.6	763.7	720.4	720.4
57.5°	7935.7	3177.1	716.8	634.0	767.3	1023.0	1026.6	875.3	734.9	673.6	666.4
60°	6105.7	2150.5	598.0	565.5	695.2	922.2	940.2	796.1	644.8	598.0	594.4
62.5°	3447.3	1192.3	525.9	511.5	598.0	785.3	839.3	695.2	547.5	522.3	529.5
65°	1574.2	655.6	443.1	414.3	482.7	605.2	677.2	572.8	450.3	421.5	421.5
67.5°	576.4	446.7	378.2	327.8	338.6	392.6	439.5	371.0	299.0	255.8	266.6
70°	410.7	374.6	331.4	284.6	263.0	255.8	252.2	208.9	147.7	115.3	122.5
72.5°	331.4	309.8	277.4	241.3	205.3	172.9	147.7	108.1	68.4	46.8	43.2
75°	237.7	226.9	201.7	172.9	144.1	122.5	100.9	68.4	36.0	18.0	18.0
77.5°	122.5	122.5	118.9	108.1	90.1	72.0	57.6	39.6	21.6	7.2	7.2
80°	93.7	100.9	104.5	93.7	82.9	64.8	46.8	28.8	14.4	3.6	3.6
82.5°	90.1	104.5	111.7	97.3	82.9	61.2	46.8	28.8	14.4	3.6	3.6
85°	21.6	21.6	32.4	36.0	46.8	50.4	39.6	25.2	10.8	3.6	3.6
87.5°	7.2	7.2	7.2	7.2	7.2	7.2	3.6	3.6	3.6	3.6	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)