

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P632778

Luminaire Tested: GWS-SA2D-735-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632778
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-735-U-T3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8454.5 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

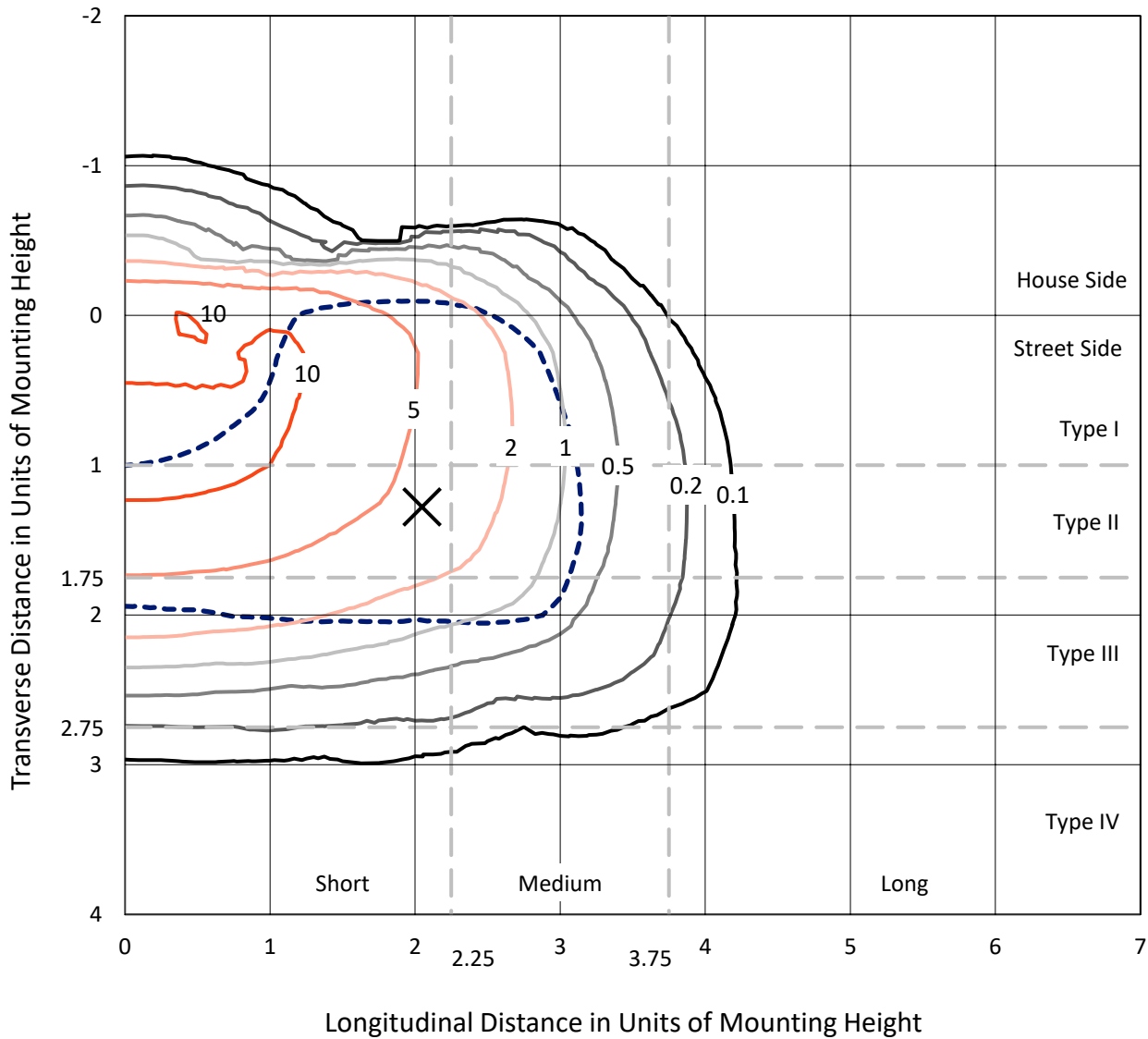
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

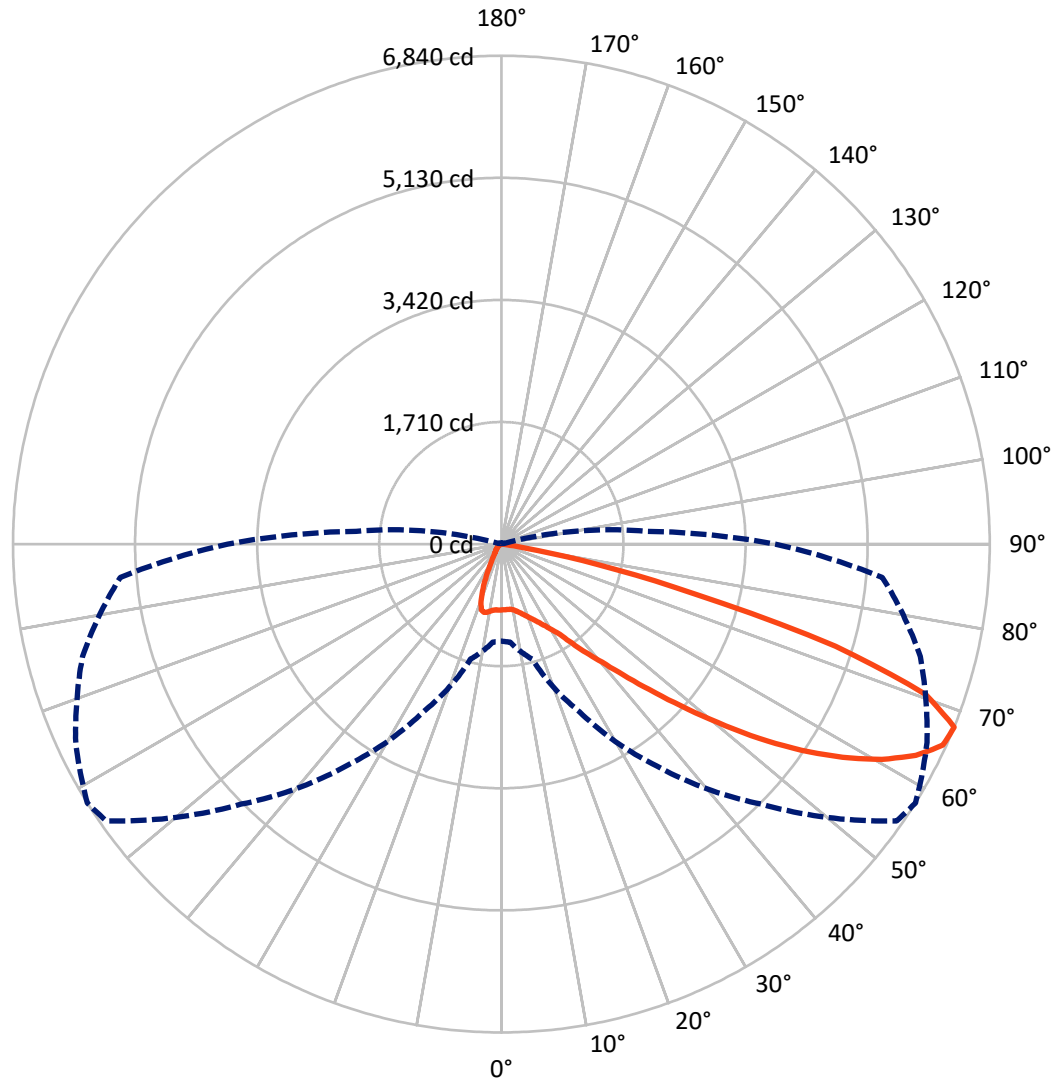
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	922.4	0.0	922.4
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	7532.1	0.0	7532.1
	% Fixture	89.1	0.0	89.1
Total	Lumens	8454.5	0.0	8454.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.5	1.0
10°-20°	243.0	2.9
20°-30°	424.1	5.0
30°-40°	757.5	9.0
40°-50°	1384.5	16.4
50°-60°	2302.6	27.2
60°-70°	2501.0	29.6
70°-80°	734.3	8.7
80°-90°	20.9	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°	8454.5	100.0
0°-180°	8454.5	100.0

Coefficient of Utilization



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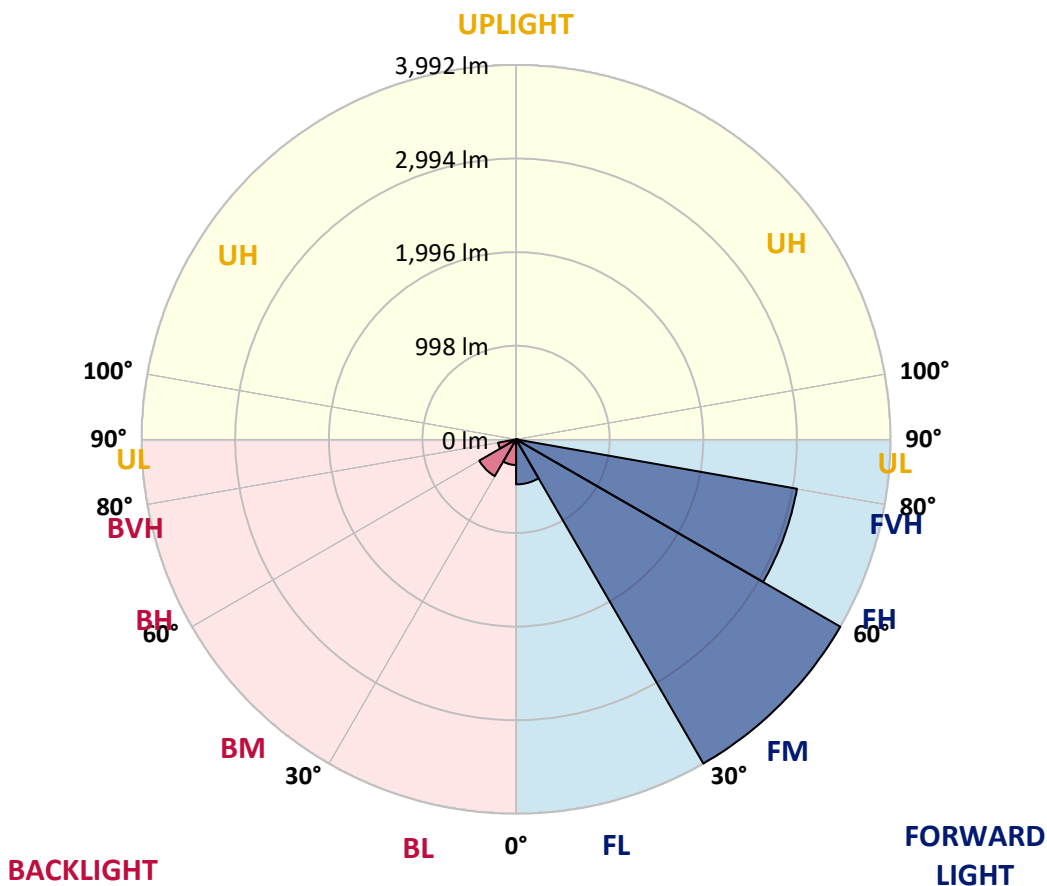
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	480.1	5.7			
FM (30°-60°)	3991.5	47.2			
FH (60°-80°)	3040.6	36.0			G2/5000
FVH (80°-90°)	19.9	0.2			G1/100
BL (0°-30°)	273.6	3.2	B1/500		
BM (30°-60°)	453.0	5.4	B1/1000		
BH (60°-80°)	194.7	2.3	B1/500		G1/500
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3
2.5°	904.0	902.3	902.3	908.9	909.7	913.0	920.5	921.3	925.4	923.8	918.0
5°	856.9	857.7	862.7	874.2	884.1	896.5	914.7	918.8	927.9	932.8	929.5
7.5°	813.1	814.0	821.4	839.6	858.5	883.3	913.0	921.3	939.4	952.7	953.5
10°	796.6	795.8	803.2	823.9	848.6	883.3	926.2	937.0	964.2	987.3	991.5
12.5°	801.6	800.8	808.2	827.2	854.4	898.2	949.4	964.2	998.9	1034.4	1041.8
15°	821.4	820.6	825.5	841.2	870.9	916.3	979.1	1001.4	1045.1	1088.0	1099.6
17.5°	880.8	876.7	871.8	873.4	890.7	937.8	1017.0	1044.3	1098.8	1150.0	1159.9
20°	986.5	975.8	962.6	945.2	937.0	969.2	1060.8	1092.2	1158.2	1216.8	1218.5
22.5°	1145.8	1141.7	1111.2	1060.8	1025.3	1026.1	1112.0	1148.3	1229.2	1293.6	1284.5
25°	1367.9	1365.4	1318.4	1235.8	1143.4	1112.0	1177.2	1214.3	1313.4	1381.9	1353.0
27.5°	1643.6	1626.3	1571.0	1459.5	1321.7	1223.4	1259.8	1292.8	1402.6	1467.0	1412.5
30°	1883.9	1884.7	1832.7	1716.3	1561.1	1391.0	1360.5	1389.4	1484.3	1552.0	1485.9
32.5°	2115.0	2122.4	2065.5	1960.6	1790.6	1609.8	1504.9	1509.9	1589.1	1662.6	1582.5
35°	2329.6	2335.4	2295.8	2206.6	2048.1	1838.4	1706.4	1703.9	1746.8	1821.9	1717.1
37.5°	2569.9	2575.6	2536.8	2456.8	2308.2	2100.1	1935.0	1931.7	1949.1	2010.2	1890.5
40°	2825.8	2836.5	2793.6	2725.9	2583.9	2408.1	2200.9	2171.1	2153.8	2225.6	2115.0
42.5°	3085.0	3101.5	3086.6	3019.0	2897.6	2752.3	2545.9	2499.7	2462.5	2552.5	2435.3
45°	3406.9	3426.8	3420.2	3368.1	3274.0	3156.0	2961.2	2907.5	2890.2	2973.5	2834.0
47.5°	3716.5	3738.0	3761.9	3750.4	3683.5	3629.0	3412.7	3382.2	3377.2	3466.4	3250.1
50°	3946.8	3966.7	4058.3	4124.3	4169.7	4158.2	3970.8	3925.4	3918.0	3974.9	3689.3
52.5°	4111.9	4130.9	4257.2	4463.6	4630.4	4721.2	4532.1	4522.2	4481.8	4462.0	4100.4
55°	4239.9	4266.3	4399.2	4711.3	5047.3	5248.7	5130.6	5095.2	4991.1	4877.2	4481.8
57.5°	4265.5	4276.2	4463.6	4884.6	5370.9	5697.0	5697.0	5635.0	5434.4	5276.8	4922.6
60°	4036.0	4069.0	4322.5	4870.6	5509.6	5990.0	6166.7	6123.8	5853.0	5659.0	5346.9
62.5°	3526.7	3563.8	3872.5	4534.6	5370.9	6050.3	6522.5	6515.9	6210.4	5975.2	5698.6
65°	2704.4	2731.7	3000.8	3793.3	4784.8	5818.3	6776.7	6794.9	6492.8	6184.0	5820.0
67.5°	1358.8	1377.8	1668.4	2591.3	3792.5	5150.5	6759.4	6840.3	6578.6	6073.4	5356.8
70°	474.7	493.7	630.7	1112.0	2308.2	3932.8	6174.9	6307.0	6074.2	5184.3	3951.8
72.5°	162.6	171.7	261.7	412.8	898.2	2331.3	4695.6	4894.5	4477.7	3480.4	2271.0
75°	92.5	98.2	140.3	223.7	376.4	766.9	2664.0	2786.2	2610.3	1897.1	934.5
77.5°	62.7	67.7	87.5	127.1	208.0	246.8	1086.4	1367.9	1192.9	619.1	238.6
80°	37.1	40.5	53.7	75.1	106.5	95.8	232.8	309.6	398.7	184.9	71.8
82.5°	17.3	19.8	34.7	49.5	53.7	40.5	68.5	83.4	112.3	90.8	29.7
85°	0.0	0.0	11.6	20.6	19.8	11.6	19.0	20.6	30.5	45.4	11.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.8	1.7	2.5	5.0	9.1	5.0
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°	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3
2.5°	924.6	918.8	925.4	922.1	925.4	924.6	918.0	913.9	913.9	906.4	904.0
5°	936.1	930.4	932.0	924.6	922.9	918.8	910.6	907.3	907.3	899.8	897.3
7.5°	961.7	952.7	951.0	936.1	929.5	918.0	903.1	897.3	896.5	889.1	886.6
10°	1002.2	991.5	984.0	965.0	946.1	922.9	891.6	865.2	850.3	830.5	828.8
12.5°	1051.7	1038.5	1027.0	998.1	966.7	914.7	822.2	725.6	666.2	619.1	622.4
15°	1107.0	1094.6	1076.5	1032.7	968.3	833.0	639.8	491.2	418.5	379.7	378.1
17.5°	1167.3	1149.1	1119.4	1060.0	916.3	636.5	416.1	293.9	255.9	242.7	239.4
20°	1223.4	1201.1	1164.0	1065.8	766.1	430.9	260.0	227.8	221.2	217.1	217.1
22.5°	1282.9	1254.8	1199.5	1021.2	569.6	275.7	221.2	213.8	208.9	203.1	202.3
25°	1343.1	1306.8	1231.7	904.8	373.1	217.1	207.2	199.0	189.9	180.8	178.3
27.5°	1394.3	1347.3	1256.5	731.4	239.4	195.6	189.0	175.0	162.6	152.7	151.1
30°	1455.4	1395.1	1267.2	534.9	188.2	172.5	162.6	147.8	132.9	123.0	119.7
32.5°	1537.1	1471.1	1250.7	348.4	166.8	151.9	136.2	118.9	104.0	93.3	91.6
35°	1664.3	1585.8	1174.7	222.1	151.1	131.3	112.3	94.1	81.7	73.5	71.8
37.5°	1819.5	1746.8	1050.1	166.8	135.4	113.9	91.6	74.3	65.2	59.4	57.8
40°	2049.8	1948.2	895.7	146.1	119.7	96.6	75.1	61.1	54.5	49.5	47.9
42.5°	2348.6	2186.0	718.2	132.9	104.8	80.9	61.1	50.4	44.6	41.3	40.5
45°	2697.8	2418.0	530.8	119.7	90.8	66.9	50.4	41.3	37.1	34.7	33.8
47.5°	3055.3	2621.0	366.5	105.7	77.6	55.3	42.1	35.5	32.2	28.9	28.1
50°	3436.7	2792.8	250.1	91.6	66.0	45.4	36.3	32.2	28.1	25.6	24.8
52.5°	3716.5	2856.3	174.2	79.3	56.1	38.8	32.2	28.9	25.6	22.3	21.5
55°	3974.9	2854.7	132.1	66.9	47.9	33.8	28.9	25.6	22.3	19.8	19.0
57.5°	4232.5	2832.4	104.0	57.0	41.3	30.5	25.6	22.3	20.6	17.3	16.5
60°	4399.2	2748.2	80.9	47.9	35.5	26.4	22.3	19.8	17.3	14.9	14.0
62.5°	4487.6	2631.0	61.9	38.0	28.9	23.1	19.8	17.3	14.9	12.4	11.6
65°	4367.9	2422.9	48.7	29.7	22.3	19.8	16.5	14.0	11.6	9.1	8.3
67.5°	3837.0	2043.2	38.0	23.9	17.3	14.9	14.0	11.6	8.3	6.6	5.8
70°	2711.9	1399.3	29.7	18.2	13.2	11.6	10.7	9.1	6.6	5.0	4.1
72.5°	1488.4	705.8	21.5	13.2	9.9	9.1	8.3	7.4	5.8	4.1	4.1
75°	572.9	194.0	15.7	9.1	6.6	6.6	5.8	5.8	5.0	3.3	3.3
77.5°	149.4	57.8	9.9	5.8	4.1	4.1	4.1	3.3	3.3	2.5	2.5
80°	47.9	19.0	5.8	4.1	3.3	2.5	2.5	1.7	2.5	1.7	1.7
82.5°	15.7	6.6	3.3	3.3	2.5	1.7	1.7	0.8	0.8	0.0	0.0
85°	5.8	3.3	2.5	1.7	1.7	1.7	0.8	0.0	0.0	0.0	0.0
87.5°	3.3	1.7	1.7	1.7	1.7	0.8	0.0	0.0	0.0	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)