

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: P641957

Luminaire Tested: GWS-SA6B-830-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641957
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6B-830-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11274.7 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

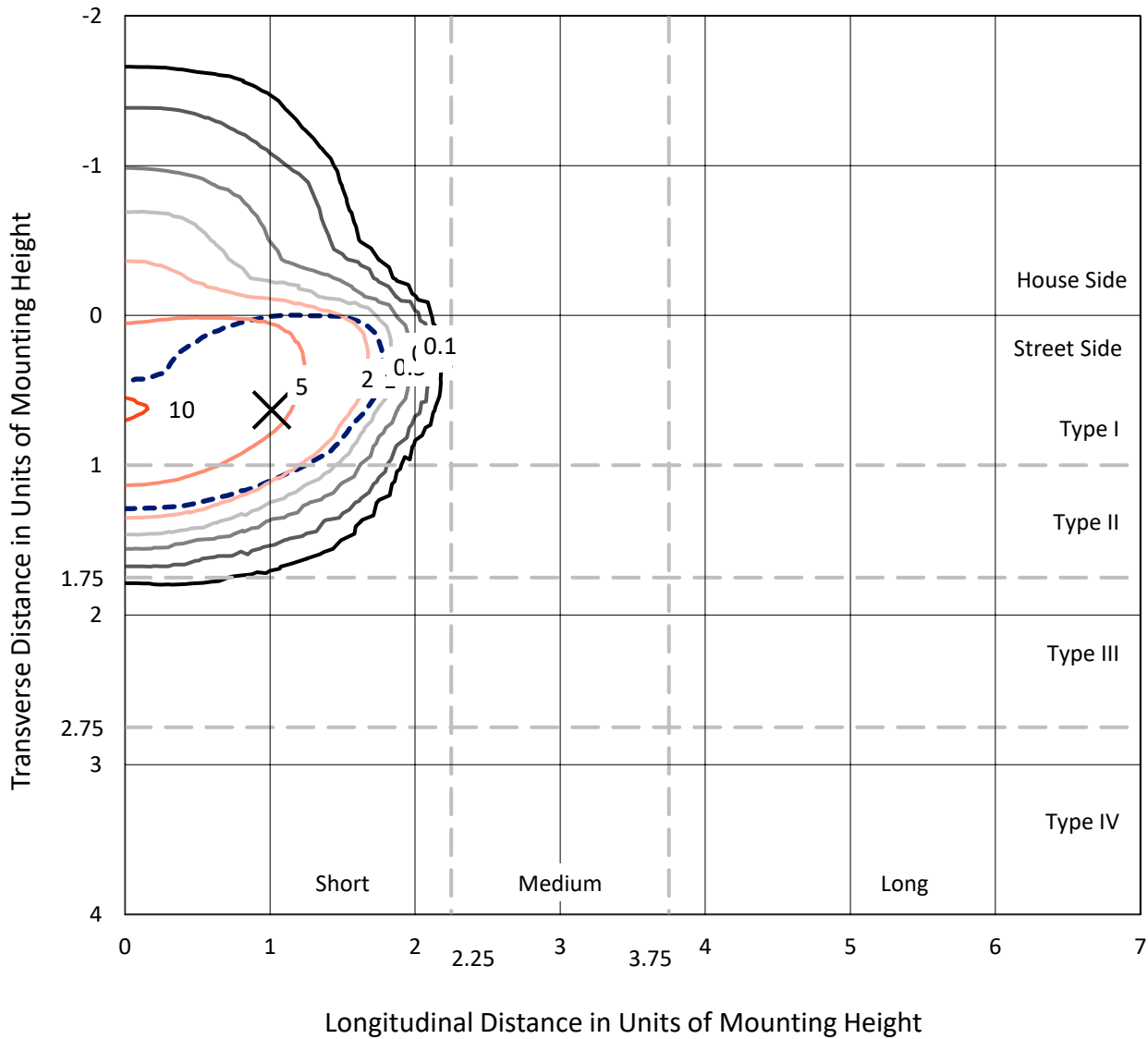
Input Watts (W): 138.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

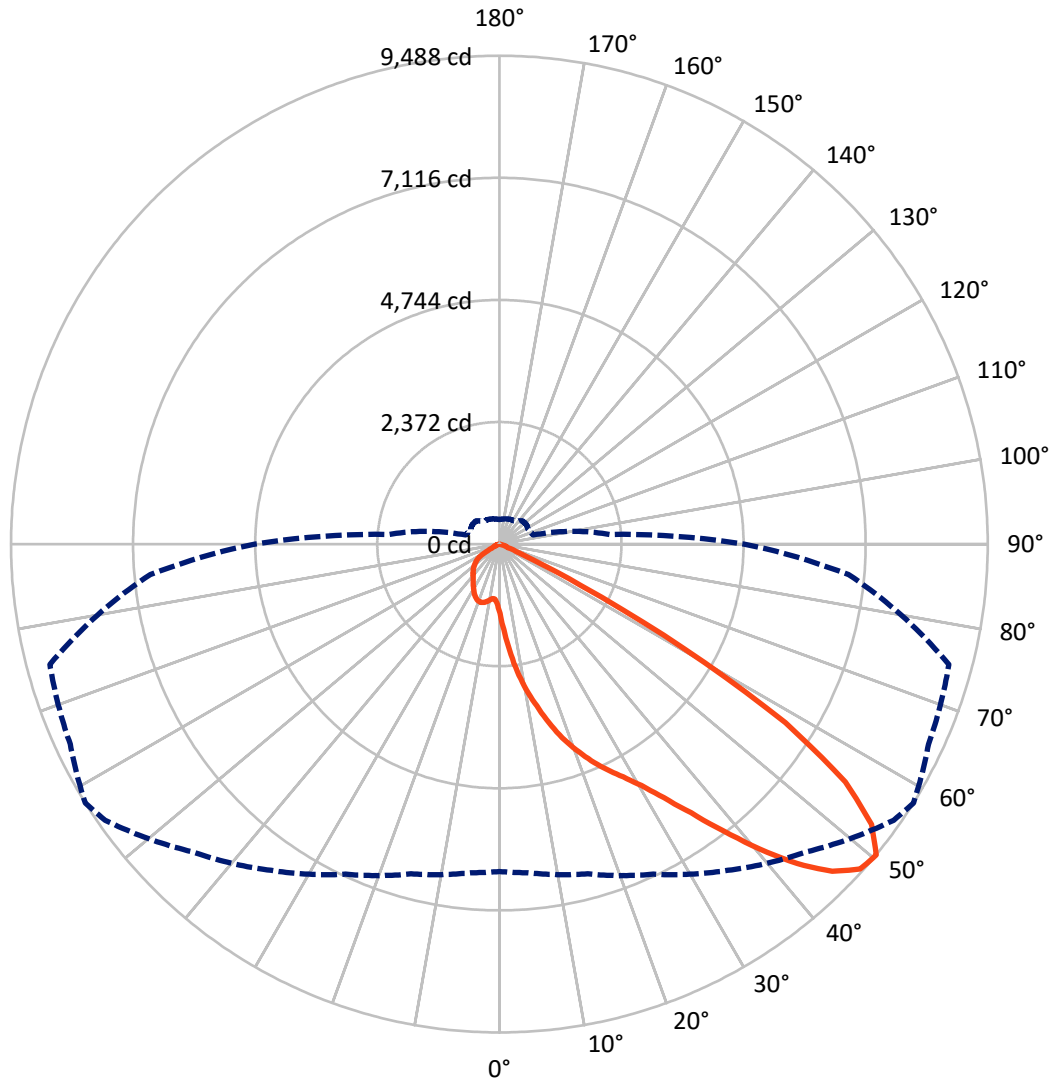
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1579.2	0.0	1579.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	9695.5	0.0	9695.5
	% Fixture	86.0	0.0	86.0
Total	Lumens	11274.7	0.0	11274.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.8	1.5
10°-20°	660.5	5.9
20°-30°	1336.5	11.9
30°-40°	2364.4	21.0
40°-50°	3446.8	30.6
50°-60°	2762.7	24.5
60°-70°	497.7	4.4
70°-80°	39.2	0.3
80°-90°	0.0	0.0
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°	11274.7	100.0
0°-180°	11274.7	100.0

Coefficient of Utilization



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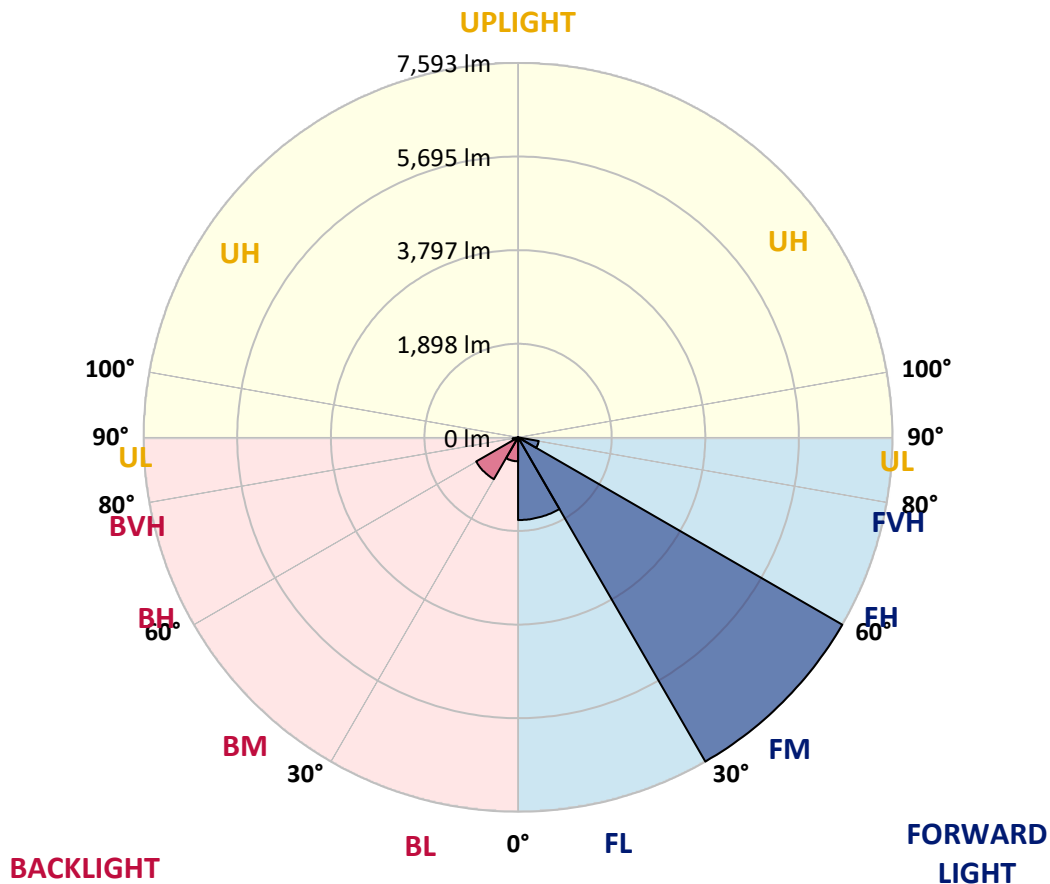
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1677.6	14.9			
FM (30°-60°)	7593.2	67.3			
FH (60°-80°)	424.7	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	486.2	4.3	B1/500		
BM (30°-60°)	980.7	8.7	B1/1000		
BH (60°-80°)	112.2	1.0	B1/500		G1/500
BVH (80°-90°)	0.0	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7
2.5°	1993.0	1961.6	1943.6	1929.1	1865.2	1763.9	1697.6	1662.6	1604.8	1507.1	1422.7
5°	2600.6	2577.7	2535.5	2506.6	2424.6	2281.1	2132.8	2073.8	1942.3	1721.7	1524.0
7.5°	3003.3	2986.5	2970.8	2932.2	2855.0	2724.8	2560.9	2499.4	2296.8	1983.3	1659.0
10°	3313.2	3299.9	3281.9	3280.7	3220.4	3103.4	2943.1	2879.2	2659.7	2267.9	1818.2
12.5°	3585.7	3574.8	3571.2	3605.0	3566.4	3479.6	3306.0	3226.4	2993.7	2558.5	1994.2
15°	3772.6	3770.2	3785.8	3852.1	3873.8	3834.1	3688.2	3602.6	3334.9	2850.2	2188.3
17.5°	3858.2	3865.4	3895.5	4010.1	4106.5	4140.3	4028.2	3955.8	3673.7	3145.6	2395.7
20°	4004.1	4001.6	4019.7	4128.2	4246.4	4367.0	4333.2	4271.7	4016.1	3457.9	2626.0
22.5°	4415.2	4380.2	4341.7	4358.5	4400.7	4541.8	4604.5	4573.1	4369.4	3778.6	2863.5
25°	5047.0	5010.8	4886.6	4766.0	4686.5	4750.4	4836.0	4851.7	4720.2	4107.7	3111.9
27.5°	5717.3	5684.8	5544.9	5364.1	5136.2	5025.3	5089.2	5120.5	5065.1	4499.6	3375.9
30°	6345.5	6302.1	6149.0	5924.7	5660.7	5490.7	5418.3	5440.0	5472.6	4963.8	3685.8
32.5°	6890.5	6857.9	6674.6	6438.3	6183.9	6006.7	5837.9	5874.1	5953.6	5531.7	4082.4
35°	7352.2	7335.4	7141.2	6906.1	6637.3	6546.8	6402.2	6409.4	6489.0	6217.7	4565.9
37.5°	7753.7	7724.8	7548.8	7330.5	7117.1	7102.7	7062.9	7066.5	7107.5	7017.1	5121.7
40°	8006.9	7980.4	7855.0	7720.0	7568.0	7570.5	7776.6	7792.3	7745.3	7801.9	5708.9
42.5°	8102.2	8082.9	8015.4	8016.6	8000.9	8072.0	8459.0	8488.0	8319.2	8418.1	6210.5
45°	7937.0	7928.5	7933.4	8107.0	8295.1	8514.5	9017.3	9067.9	8829.2	8826.8	6602.3
47.5°	7404.1	7387.2	7528.3	7823.7	8258.9	8685.7	9354.9	9433.2	9186.1	9060.7	6848.3
50°	6360.0	6408.2	6631.2	7074.9	7736.8	8450.6	9351.2	9487.5	9199.3	9040.2	6807.3
52.5°	4606.9	4597.3	5085.6	5695.6	6501.0	7698.3	8854.5	9053.4	8877.4	8838.8	6715.6
55°	2506.6	2594.6	2923.8	3731.6	4737.1	6274.4	7720.0	8154.0	8357.8	8765.3	6880.8
57.5°	921.1	959.7	1165.9	1737.4	2507.8	3901.6	5897.0	6551.7	7181.0	8560.3	6853.1
60°	371.3	378.6	460.6	639.0	1053.8	1985.8	3537.5	4118.6	4711.8	6552.9	5259.2
62.5°	270.1	279.7	312.3	373.8	532.9	868.1	1525.2	1773.6	1938.7	3245.7	2591.0
65°	218.2	225.5	252.0	279.7	352.1	466.6	491.9	473.8	471.4	839.2	594.4
67.5°	180.9	188.1	207.4	226.7	253.2	232.7	168.8	177.2	144.7	143.5	117.0
70°	132.6	141.1	160.4	180.9	151.9	62.7	97.7	144.7	109.7	91.6	89.2
72.5°	100.1	106.1	124.2	118.2	44.6	24.1	65.1	104.9	84.4	67.5	66.3
75°	74.8	78.4	62.7	19.3	4.8	6.0	24.1	43.4	47.0	38.6	38.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.4	3.6	4.8	6.0	7.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7	1346.7
2.5°	1374.5	1323.8	1251.5	1191.2	1145.4	1100.8	1067.0	1033.3	1032.1	1015.2	1011.6
5°	1432.3	1340.7	1208.1	1112.8	1055.0	1020.0	995.9	983.8	977.8	971.8	969.4
7.5°	1515.5	1384.1	1200.9	1099.6	1051.4	1028.4	1011.6	1004.3	1000.7	995.9	994.7
10°	1618.0	1446.8	1227.4	1124.9	1082.7	1061.0	1042.9	1032.1	1026.0	1017.6	1015.2
12.5°	1741.0	1524.0	1269.6	1167.1	1122.5	1093.6	1069.4	1053.8	1045.3	1034.5	1032.1
15°	1873.6	1607.2	1316.6	1205.7	1152.6	1115.3	1085.1	1061.0	1045.3	1032.1	1028.4
17.5°	2011.1	1691.6	1358.8	1232.2	1167.1	1122.5	1079.1	1046.5	1027.2	1010.4	1005.5
20°	2165.4	1778.4	1386.5	1237.0	1162.3	1103.2	1052.6	1011.6	992.3	969.4	964.5
22.5°	2327.0	1859.2	1398.6	1226.2	1135.7	1067.0	1012.8	970.6	942.8	918.7	911.5
25°	2483.7	1931.5	1392.6	1196.0	1096.0	1016.4	960.9	917.5	887.4	863.3	857.2
27.5°	2650.1	1991.8	1370.9	1151.4	1041.7	960.9	907.9	870.5	842.8	816.2	810.2
30°	2837.0	2047.2	1335.9	1097.2	977.8	904.3	863.3	837.9	807.8	780.1	771.6
32.5°	3062.4	2096.7	1285.3	1032.1	921.1	854.8	831.9	812.6	777.7	748.7	742.7
35°	3320.4	2137.7	1221.4	964.5	865.7	823.5	818.7	793.3	747.5	713.8	706.5
37.5°	3619.4	2177.5	1145.4	898.2	824.7	809.0	810.2	766.8	711.4	670.4	665.5
40°	3941.4	2217.2	1061.0	840.4	787.3	800.6	789.7	728.2	637.8	598.0	593.2
42.5°	4276.5	2260.6	975.4	786.1	756.0	768.0	752.3	651.1	586.0	565.5	563.1
45°	4579.2	2312.5	882.6	731.8	724.6	721.0	694.5	589.6	561.8	547.4	546.2
47.5°	4797.4	2304.1	783.7	680.0	690.9	678.8	598.0	560.6	537.7	518.4	513.6
50°	4757.6	2157.0	681.2	622.1	647.4	636.6	537.7	526.9	506.4	485.9	478.7
52.5°	4656.3	1956.8	592.0	560.6	600.4	575.1	496.7	485.9	467.8	441.3	432.8
55°	4710.6	1768.7	522.1	511.2	552.2	476.2	450.9	434.0	414.8	385.8	382.2
57.5°	4535.8	1443.2	419.6	426.8	488.3	406.3	395.5	368.9	336.4	317.1	314.7
60°	3139.6	775.3	262.8	271.3	353.3	341.2	354.5	330.4	290.6	272.5	268.9
62.5°	1442.0	311.1	143.5	137.4	185.7	231.5	303.8	301.4	252.0	223.1	220.6
65°	349.6	142.3	102.5	96.5	104.9	138.7	197.7	237.5	203.8	170.0	166.4
67.5°	113.3	115.7	94.0	88.0	92.8	103.7	118.2	131.4	130.2	119.4	117.0
70°	90.4	104.9	86.8	79.6	79.6	83.2	79.6	63.9	55.5	60.3	62.7
72.5°	67.5	79.6	68.7	61.5	59.1	57.9	49.4	36.2	25.3	22.9	21.7
75°	39.8	44.6	42.2	36.2	33.8	30.1	24.1	15.7	8.4	6.0	3.6
77.5°	7.2	8.4	9.6	7.2	6.0	4.8	3.6	1.2	0.0	0.0	0.0
80°	0.0	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)