

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: P630447

Luminaire Tested: GWS-SA1D-760-U-SL4-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630447  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1D-760-U-SL4-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (16) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

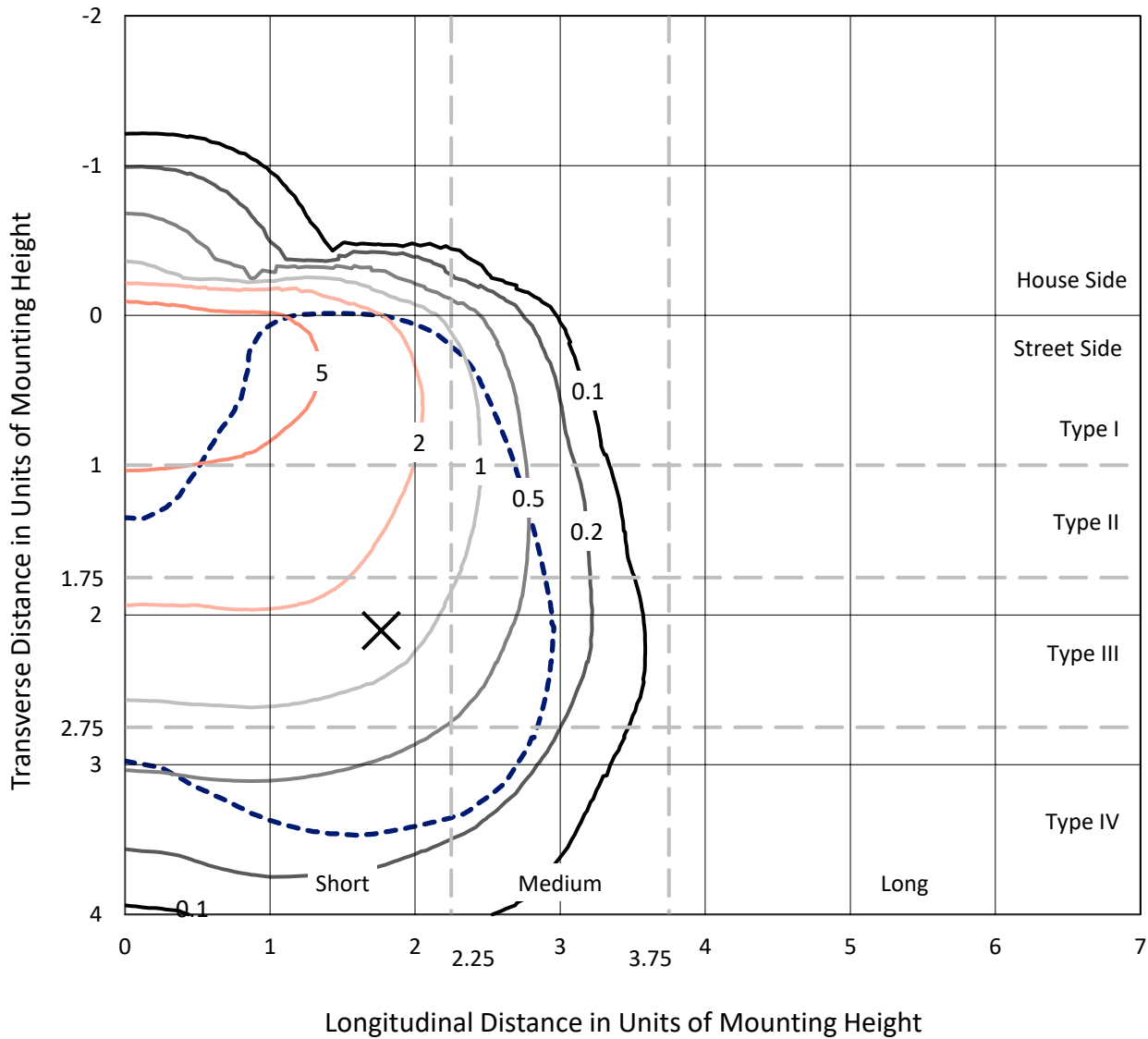
Lumens per Lamp: N/A  
Luminaire Lumens: 4820.2 lumens  
Efficiency: N/A  
Efficacy: 108.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 44.3  
Input Voltage (V): 120  
Input Current (Ain): 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

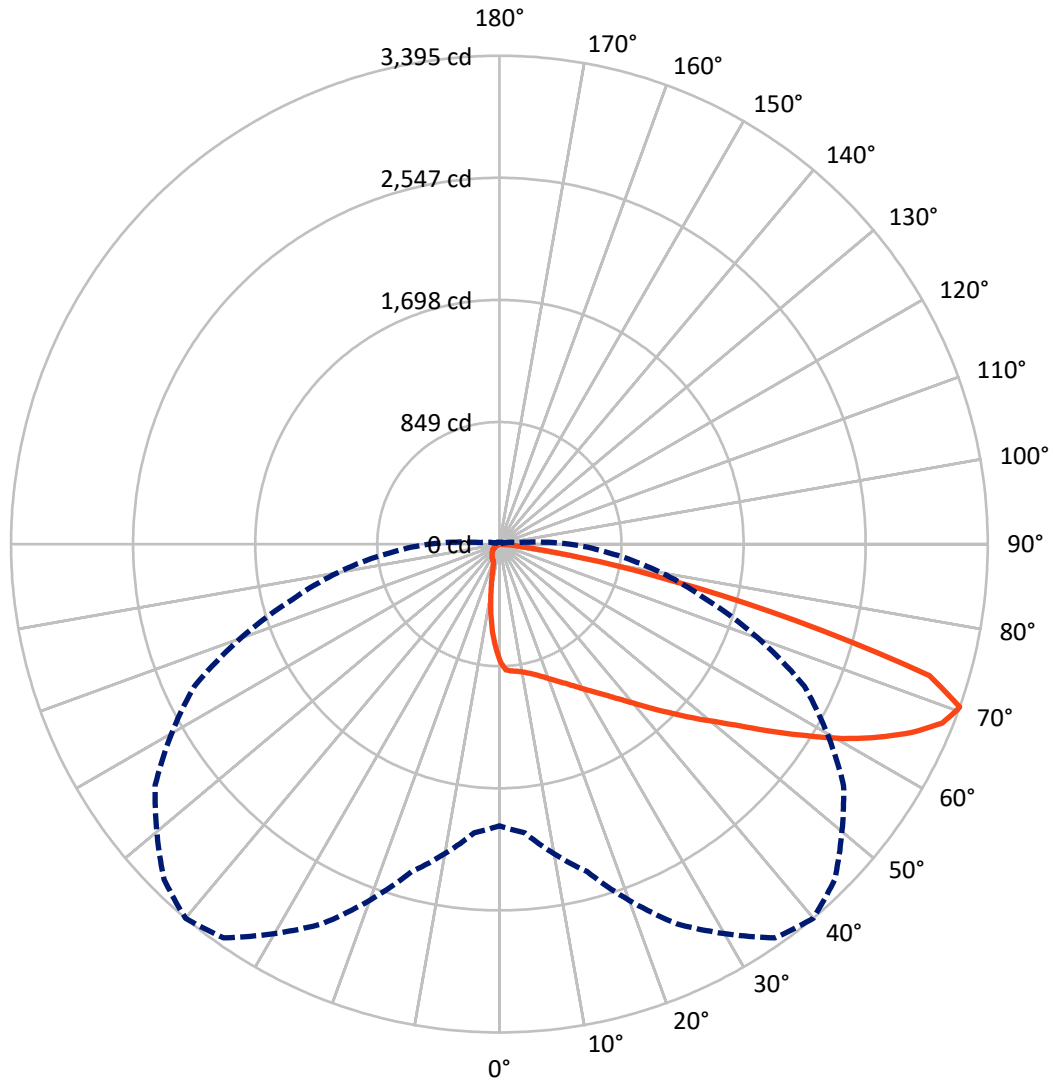
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	394.2	0.0	394.2
	% Fixture	8.2	0.0	8.2
<b>Street Side</b>	Lumens	4426.0	0.0	4426.0
	% Fixture	91.8	0.0	91.8
<b>Total</b>	Lumens	4820.2	0.0	4820.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.1	1.4
10°-20°	175.3	3.6
20°-30°	293.5	6.1
30°-40°	460.9	9.6
40°-50°	729.0	15.1
50°-60°	1063.5	22.1
60°-70°	1318.3	27.4
70°-80°	667.0	13.8
80°-90°	43.5	0.9
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°	4820.2	100.0
0°-180°	4820.2	100.0

**Coefficient of Utilization**



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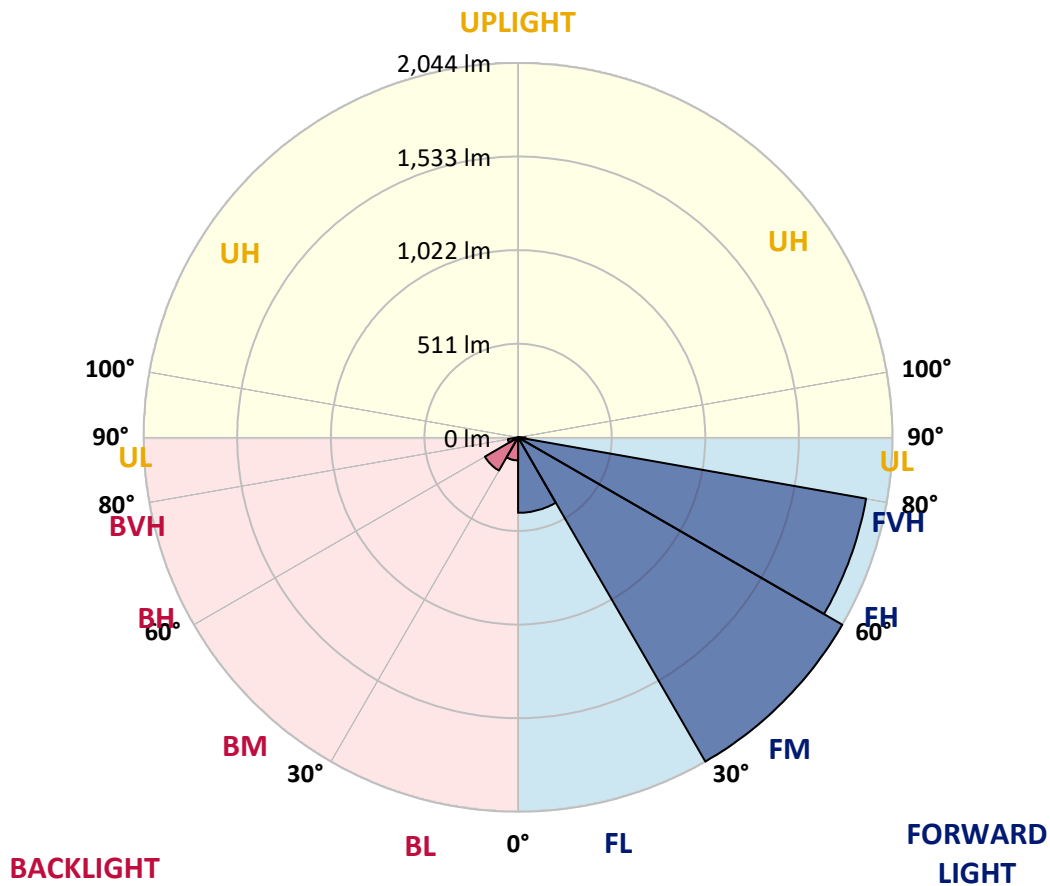
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	412.0	8.5			
FM (30°-60°)	2044.2	42.4			
FH (60°-80°)	1929.1	40.0			G2/5000
FVH (80°-90°)	40.7	0.8			G1/100
BL (0°-30°)	125.9	2.6	B1/500		
BM (30°-60°)	209.2	4.3	B0/220		
BH (60°-80°)	56.2	1.2	B0/110		G0/110
BVH (80°-90°)	2.9	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-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	817.9	817.9	817.9	817.9	817.9	817.9	817.9	817.9	817.9	817.9	817.9
2.5°	879.3	882.4	882.0	883.3	880.2	875.4	874.5	867.9	856.1	841.2	824.5
5°	897.3	900.8	898.2	896.9	891.2	885.9	884.6	877.6	864.0	843.8	814.9
7.5°	912.7	913.5	911.8	908.7	900.4	893.4	888.5	878.9	862.7	842.5	809.2
10°	915.3	914.9	915.7	916.2	910.9	904.8	900.8	887.7	867.0	845.6	809.6
12.5°	912.2	912.2	917.9	924.5	924.5	921.4	917.5	905.6	881.5	856.1	818.4
15°	916.2	917.5	928.4	940.7	944.7	941.6	939.9	927.6	902.6	874.5	834.2
17.5°	930.2	931.5	949.1	967.5	972.3	968.8	965.3	953.0	926.3	895.6	852.1
20°	950.8	954.3	976.7	1000.4	1004.8	1000.4	993.4	976.3	949.5	918.4	869.2
22.5°	988.5	990.7	1014.8	1039.8	1042.0	1035.0	1024.5	1000.8	972.7	942.5	888.5
25°	1038.5	1041.6	1065.7	1089.8	1084.1	1073.6	1059.1	1032.4	1000.4	971.0	913.1
27.5°	1098.2	1101.7	1125.4	1146.4	1131.5	1119.2	1103.0	1069.7	1037.2	1010.5	944.7
30°	1162.6	1165.7	1186.8	1205.6	1185.9	1171.4	1152.1	1117.9	1085.0	1064.8	989.4
32.5°	1224.9	1224.5	1244.7	1260.0	1239.8	1228.4	1210.9	1176.2	1149.9	1141.2	1056.1
35°	1282.8	1282.8	1299.5	1314.8	1300.4	1294.2	1278.0	1250.4	1235.4	1246.0	1145.1
37.5°	1341.1	1338.1	1353.9	1371.0	1369.6	1370.1	1360.9	1347.7	1348.6	1385.9	1267.5
40°	1389.4	1388.1	1406.5	1428.9	1446.4	1460.4	1454.7	1459.6	1487.2	1556.9	1424.0
42.5°	1428.0	1431.0	1454.7	1490.3	1534.6	1563.1	1567.0	1586.7	1657.8	1765.7	1600.8
45°	1472.3	1472.7	1505.6	1560.0	1630.6	1675.8	1691.6	1742.4	1843.3	1982.3	1794.6
47.5°	1526.7	1521.4	1558.2	1634.5	1736.7	1803.4	1831.5	1895.1	2051.2	2193.7	1952.5
50°	1586.7	1577.1	1618.8	1722.7	1855.6	1938.9	1995.9	2088.9	2257.3	2367.4	2070.0
52.5°	1656.5	1647.3	1694.6	1824.0	1998.1	2099.4	2172.7	2266.5	2434.1	2499.8	2140.2
55°	1745.1	1735.9	1785.9	1945.5	2166.5	2298.1	2374.8	2453.8	2598.5	2597.6	2191.1
57.5°	1843.3	1830.6	1899.9	2099.0	2376.6	2513.4	2591.5	2630.1	2723.5	2673.5	2225.3
60°	1956.0	1944.6	2040.7	2281.9	2619.1	2745.9	2795.0	2779.2	2826.1	2718.2	2213.5
62.5°	2057.8	2052.5	2171.8	2475.7	2850.3	2957.3	2970.9	2902.0	2901.6	2719.1	2133.6
65°	2163.5	2173.5	2350.7	2699.0	3082.7	3154.6	3131.4	3023.9	2931.8	2611.7	1897.7
67.5°	2202.9	2232.3	2468.7	2900.7	3266.0	3322.2	3281.4	3084.9	2806.0	2250.3	1445.1
70°	1959.1	2014.3	2357.3	2912.1	3341.9	3395.4	3297.6	2920.9	2339.3	1490.7	791.6
72.5°	1489.8	1554.3	1964.3	2384.5	3005.5	3127.4	2960.3	2379.7	1507.8	653.0	265.8
75°	833.7	903.5	1463.1	1795.5	2017.9	2129.2	2067.9	1526.7	667.9	170.6	79.4
77.5°	282.0	305.2	680.7	1110.9	1331.9	1231.9	1042.9	758.3	245.6	64.9	42.1
80°	167.1	175.9	253.5	553.0	700.8	581.1	458.7	280.2	125.0	34.6	29.4
82.5°	50.0	59.2	139.9	205.3	274.5	171.0	144.7	160.1	64.9	18.9	24.6
85°	0.0	0.0	29.8	63.6	71.9	28.1	28.1	90.8	11.8	7.9	18.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.2	1.3	1.8	3.9
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°	817.9	817.9	817.9	817.9	817.9	817.9	817.9	817.9	817.9	817.9	817.9
2.5°	812.7	797.3	779.3	762.2	746.0	725.0	714.9	702.6	692.1	686.4	689.4
5°	796.4	772.3	735.5	698.2	660.5	625.0	592.9	571.5	552.2	542.1	544.3
7.5°	782.4	750.0	692.5	631.5	571.0	510.1	460.5	421.9	392.1	379.8	377.6
10°	776.3	735.5	654.3	566.6	473.7	391.6	321.5	278.9	248.7	233.8	236.4
12.5°	779.3	728.0	621.9	503.0	382.4	286.8	219.7	179.8	158.3	149.6	147.4
15°	788.1	726.3	592.9	438.1	295.2	200.4	151.7	135.5	131.1	130.3	130.3
17.5°	798.2	726.7	563.1	372.3	224.1	148.7	129.8	126.7	125.4	124.6	125.0
20°	808.3	726.7	528.9	305.7	168.4	128.5	123.7	121.5	120.2	119.7	119.7
22.5°	820.6	726.7	490.8	243.8	135.1	121.9	118.0	116.7	115.3	114.9	114.5
25°	835.5	727.1	448.7	190.8	122.8	116.2	113.2	111.8	110.5	109.6	109.6
27.5°	857.0	730.7	402.2	148.7	115.8	111.0	108.3	107.0	105.7	104.4	104.4
30°	888.1	739.4	350.0	122.8	109.2	105.3	102.6	101.7	100.4	99.1	98.7
32.5°	934.6	754.8	296.0	110.1	103.1	99.1	96.0	95.2	93.9	92.5	92.1
35°	999.5	782.8	243.4	102.2	95.2	91.2	89.5	89.0	87.3	86.0	86.0
37.5°	1094.7	828.5	193.0	94.3	88.6	85.5	83.3	82.5	80.7	79.4	78.9
40°	1210.9	887.7	150.0	88.2	82.5	79.4	77.2	75.9	73.7	71.9	71.0
42.5°	1359.1	960.0	118.4	81.6	76.7	73.7	71.9	69.3	66.2	63.6	63.2
45°	1513.5	1034.6	97.8	75.4	71.5	68.9	66.7	63.2	58.8	55.7	54.8
47.5°	1631.9	1081.1	85.5	68.9	65.8	63.6	61.0	56.6	51.3	47.8	46.9
50°	1716.6	1088.1	76.3	62.7	61.0	58.8	54.8	49.6	43.9	40.3	39.5
52.5°	1758.2	1056.5	68.9	57.0	55.7	53.5	48.7	43.0	36.8	33.3	32.5
55°	1777.1	996.9	61.8	52.2	50.4	47.8	42.5	36.4	30.3	27.2	26.3
57.5°	1769.6	908.7	55.7	47.4	45.2	42.1	36.4	29.8	25.0	21.9	21.5
60°	1714.4	785.0	49.6	42.5	39.9	36.4	30.7	24.6	20.2	18.0	17.5
62.5°	1595.1	631.5	43.4	36.8	35.1	31.6	26.3	20.2	16.7	15.3	14.9
65°	1350.8	446.5	37.3	31.1	30.3	26.8	21.9	16.7	14.5	13.6	13.2
67.5°	971.0	271.5	31.6	26.8	25.9	22.8	18.4	14.5	13.2	12.7	12.7
70°	488.1	128.5	25.0	21.9	21.9	18.9	15.8	13.2	12.7	12.3	12.3
72.5°	165.8	54.8	18.9	17.1	18.0	16.2	13.6	12.3	12.3	12.3	12.3
75°	56.6	28.9	13.2	12.3	13.2	13.2	11.8	11.8	12.3	12.3	12.3
77.5°	36.8	19.3	9.2	8.3	10.1	10.1	10.1	11.0	11.8	11.8	11.8
80°	30.3	10.5	6.1	5.7	7.5	7.5	8.3	10.1	11.0	11.0	11.0
82.5°	25.9	6.6	3.5	3.9	5.3	5.7	7.0	8.3	9.6	10.1	10.1
85°	17.5	3.5	2.6	3.1	3.5	4.4	5.7	7.0	7.9	8.8	8.8
87.5°	4.8	1.3	1.8	2.2	2.2	3.1	4.4	5.3	6.1	6.6	6.6
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)