

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: P633049

Luminaire Tested: GWS-SA2D-830-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633049  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2D-830-U-T2R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

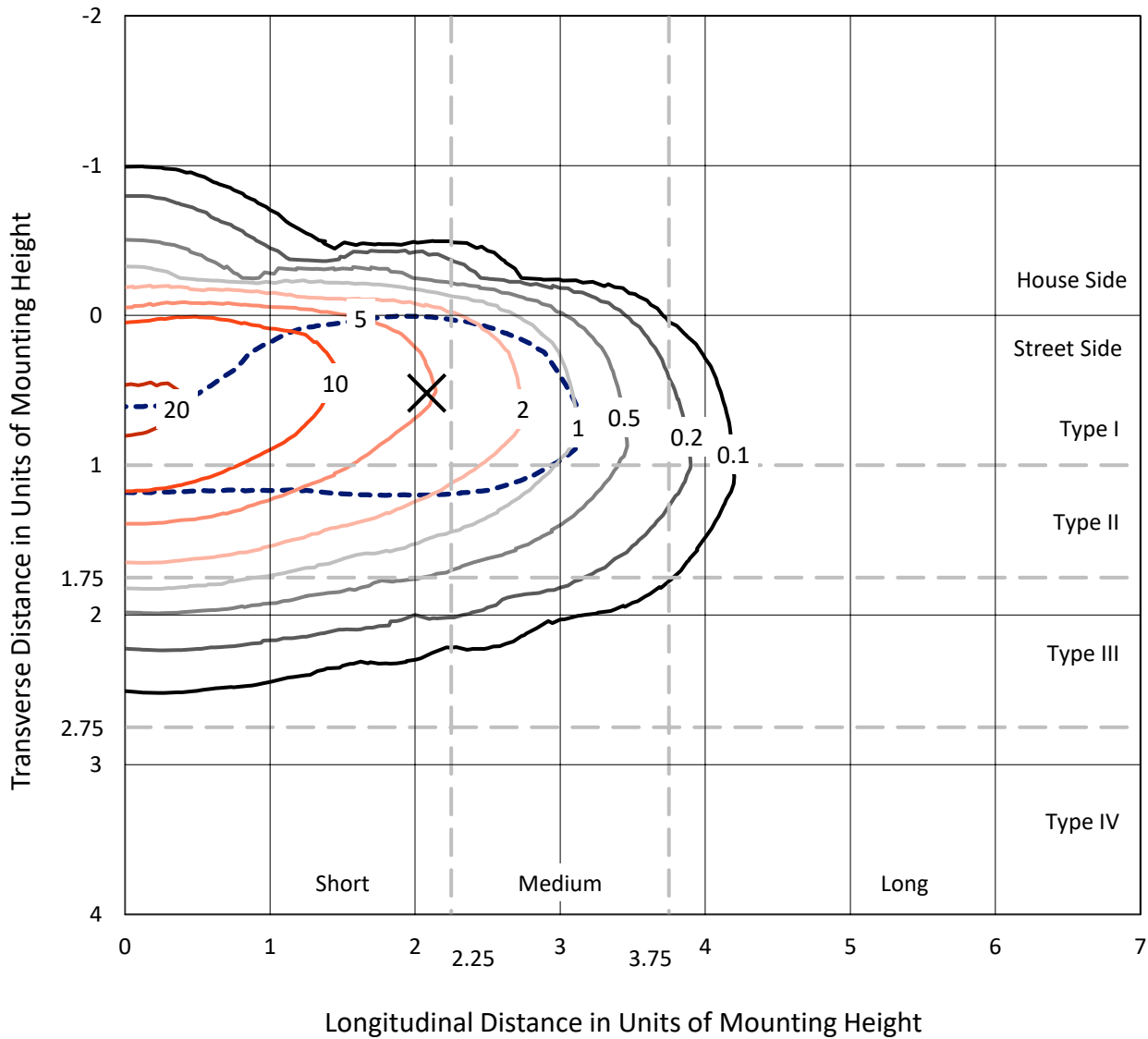
Lumens per Lamp: N/A  
Luminaire Lumens: 7480.4 lumens  
Efficiency: N/A  
Efficacy: 91.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

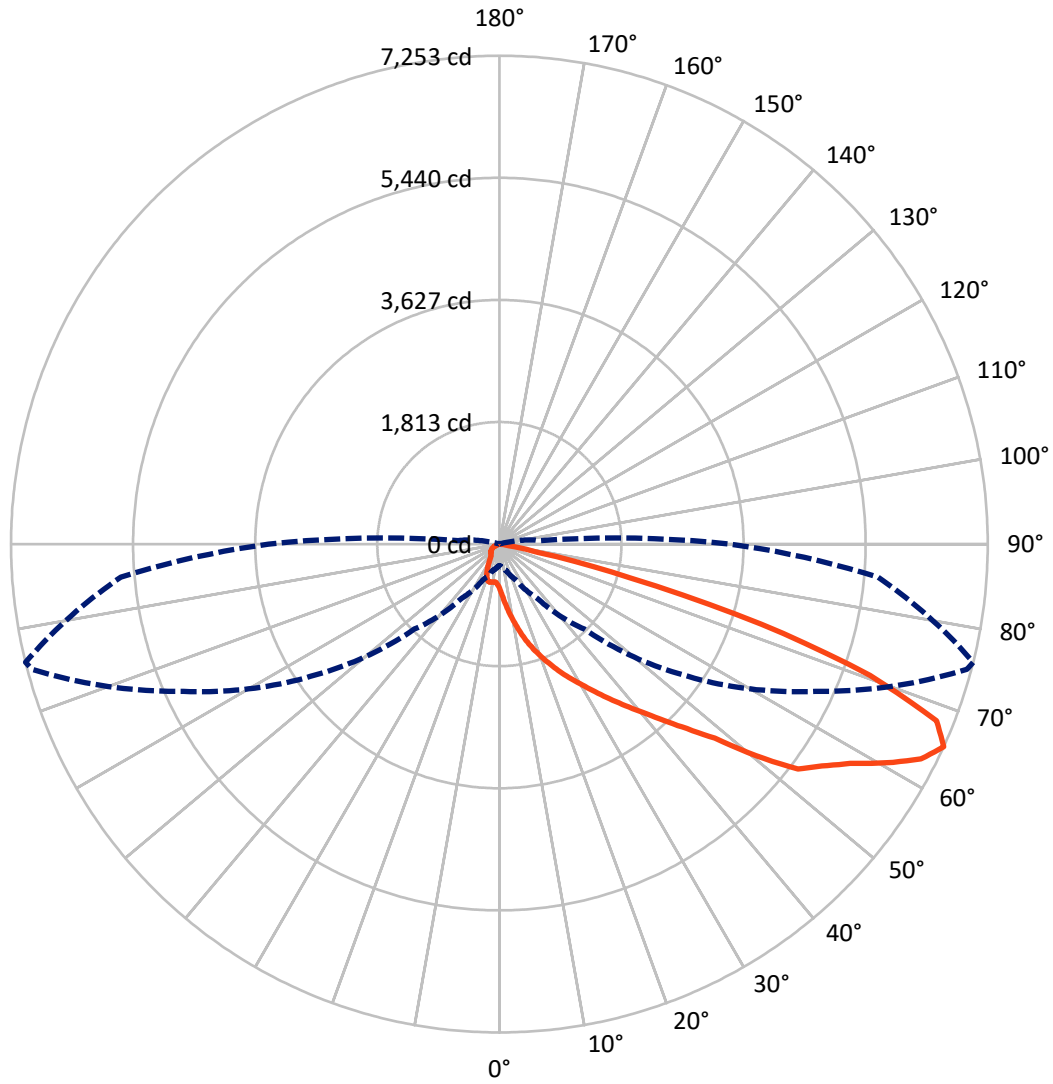
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	413.6	0.0	413.6
	% Fixture	5.5	0.0	5.5
<b>Street Side</b>	Lumens	7066.8	0.0	7066.8
	% Fixture	94.5	0.0	94.5
<b>Total</b>	Lumens	7480.4	0.0	7480.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.6	1.1
10°-20°	305.7	4.1
20°-30°	623.7	8.3
30°-40°	1109.3	14.8
40°-50°	1639.8	21.9
50°-60°	1877.5	25.1
60°-70°	1432.4	19.1
70°-80°	401.3	5.4
80°-90°	10.1	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°	7480.4	100.0
0°-180°	7480.4	100.0

**Coefficient of Utilization**



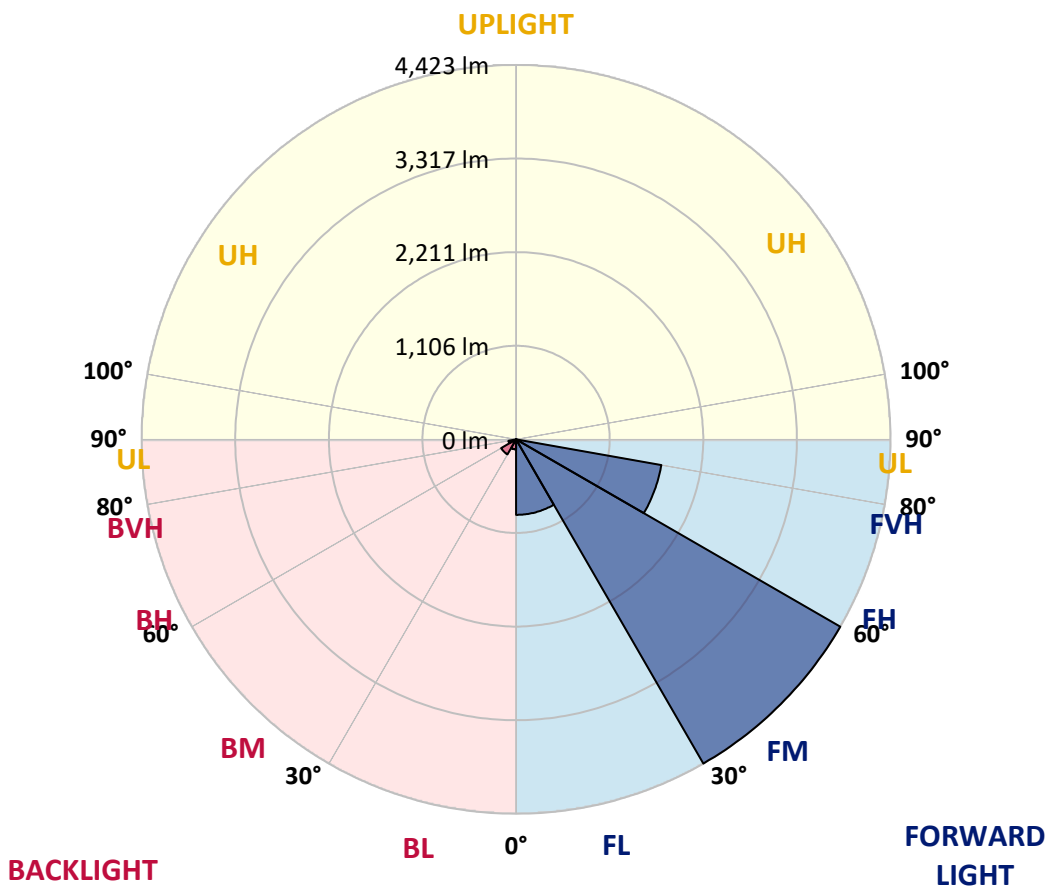
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	892.0	11.9			
FM (30°-60°)	4422.5	59.1			
FH (60°-80°)	1742.8	23.3			G1/1800
FVH (80°-90°)	9.5	0.1			G0/10
BL (0°-30°)	118.0	1.6	B1/500		
BM (30°-60°)	204.1	2.7	B0/220		
BH (60°-80°)	90.9	1.2	B0/110		G0/110
BVH (80°-90°)	0.6	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°	65°	75°	76°	85°
0°	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3
2.5°	1020.7	1036.0	1024.0	1004.1	965.5	928.3	880.4	814.6	762.0	755.4	706.2
5°	1378.4	1377.1	1351.2	1325.2	1284.7	1220.8	1124.4	1002.1	884.4	874.4	764.0
7.5°	1591.2	1593.2	1578.6	1558.6	1518.7	1452.9	1352.5	1204.9	1032.7	1012.7	843.2
10°	1770.1	1769.4	1758.8	1749.5	1713.6	1669.7	1562.0	1399.7	1192.3	1161.0	931.6
12.5°	1904.4	1909.1	1914.4	1923.7	1908.4	1865.2	1763.4	1586.6	1353.8	1319.3	1032.7
15°	2010.8	2012.1	2032.1	2068.0	2080.6	2058.0	1965.6	1767.4	1513.4	1483.5	1149.0
17.5°	2042.7	2045.4	2079.3	2145.1	2211.6	2224.3	2154.4	1949.6	1670.3	1638.4	1262.1
20°	2109.9	2115.9	2141.1	2199.0	2282.8	2350.6	2323.3	2133.8	1827.3	1785.4	1377.8
22.5°	2321.3	2324.7	2316.0	2323.3	2366.6	2445.0	2461.6	2312.0	1988.2	1943.6	1502.8
25°	2685.1	2686.4	2625.9	2568.7	2536.1	2550.7	2587.3	2476.3	2147.8	2103.9	1619.1
27.5°	3062.8	3067.4	2994.9	2897.8	2781.5	2715.0	2704.3	2626.5	2308.7	2260.2	1734.2
30°	3418.5	3418.5	3342.0	3223.7	3068.1	2938.4	2861.9	2778.2	2480.9	2427.7	1851.9
32.5°	3738.3	3735.7	3637.9	3509.6	3356.0	3213.7	3052.8	2936.4	2672.4	2613.2	1987.5
35°	4002.3	3995.7	3884.6	3761.6	3597.4	3491.6	3312.1	3106.6	2879.9	2820.7	2127.2
37.5°	4201.8	4194.5	4092.8	3962.4	3810.2	3741.7	3591.4	3310.8	3098.7	3044.8	2282.1
40°	4310.2	4295.6	4225.1	4128.0	4000.3	3940.5	3878.0	3564.1	3356.0	3288.8	2465.0
42.5°	4342.1	4324.8	4278.3	4233.1	4155.9	4108.7	4175.9	3850.0	3638.6	3580.7	2673.8
45°	4247.7	4237.7	4233.7	4266.3	4280.3	4293.6	4459.1	4166.6	3950.5	3906.6	2936.4
47.5°	4020.3	4017.6	4052.9	4188.5	4336.1	4476.4	4767.0	4556.9	4354.7	4307.5	3303.5
50°	3600.0	3627.3	3725.7	3963.8	4259.0	4580.2	5054.9	5098.2	5009.1	4939.9	3782.2
52.5°	2943.1	2995.6	3216.4	3578.1	4002.3	4550.9	5187.9	5531.7	5622.8	5551.0	4125.3
55°	2309.4	2358.6	2555.4	3014.2	3580.1	4328.1	5193.9	5681.3	5880.1	5813.6	4357.4
57.5°	1720.2	1765.4	1944.3	2383.2	3005.6	3889.9	5051.6	5764.4	6185.3	6142.8	4723.8
60°	1124.4	1169.0	1330.6	1714.2	2331.3	3251.6	4701.2	5747.1	6600.9	6596.9	5174.0
62.5°	623.7	659.0	776.0	1075.2	1627.1	2518.2	4150.6	5573.6	7003.2	7028.5	5545.0
65°	319.2	341.8	412.9	591.1	984.8	1785.4	3426.5	5176.0	7189.4	7253.3	5642.7
67.5°	208.8	216.1	233.4	307.2	527.3	1123.1	2578.7	4538.3	6927.4	7001.9	5314.9
70°	169.6	175.5	185.5	204.8	272.0	596.5	1693.6	3624.6	5788.4	5838.9	4232.4
72.5°	124.3	132.3	151.6	164.2	196.2	327.2	881.1	2379.2	3975.1	4064.2	2659.8
75°	91.8	96.4	112.4	129.7	160.3	206.8	337.1	1250.8	2052.7	2000.8	1117.1
77.5°	55.2	58.5	71.8	83.1	114.4	129.0	117.7	462.1	624.4	587.1	270.0
80°	27.3	30.6	47.2	62.5	73.1	51.9	49.2	129.0	139.0	139.0	67.8
82.5°	9.3	12.0	25.3	41.2	35.9	19.9	23.3	33.2	37.2	39.2	19.9
85°	0.0	0.0	6.0	12.0	5.3	2.7	6.0	7.3	9.3	10.0	6.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.0	2.7	2.7
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°	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3	662.3
2.5°	679.6	648.3	601.1	558.6	526.0	495.4	472.1	453.5	450.2	439.5	440.9
5°	710.2	653.6	566.5	499.4	452.2	420.2	393.6	373.7	365.1	356.4	349.8
7.5°	757.4	675.6	553.2	471.4	416.3	367.1	325.8	292.6	276.6	266.6	260.0
10°	815.2	706.2	553.9	454.8	373.0	297.9	241.4	204.8	187.5	182.2	181.5
12.5°	884.4	744.7	559.2	427.6	310.5	221.4	178.9	162.2	156.9	152.3	152.3
15°	957.5	788.0	559.2	377.7	236.7	172.9	154.9	144.3	137.6	135.0	133.7
17.5°	1034.7	828.5	545.9	309.2	181.5	152.3	137.6	127.7	122.4	118.4	117.0
20°	1117.1	867.1	512.7	236.7	155.6	136.3	122.4	112.4	107.1	103.1	103.1
22.5°	1200.9	903.0	458.8	182.2	137.6	121.0	107.7	98.4	93.1	89.1	89.1
25°	1278.7	926.9	389.7	150.3	124.3	107.7	95.8	86.4	80.5	77.8	76.5
27.5°	1351.2	942.2	313.2	132.3	111.7	96.4	83.8	75.1	70.5	68.5	67.2
30°	1426.3	946.2	239.4	120.4	101.1	85.1	73.1	66.5	62.5	59.8	59.8
32.5°	1499.5	941.6	182.9	110.4	91.8	75.1	65.2	59.2	55.9	53.9	53.2
35°	1573.9	920.3	148.3	101.7	82.5	65.8	57.9	53.2	51.2	48.5	48.5
37.5°	1655.1	891.7	129.0	93.1	73.1	59.2	51.9	48.5	45.9	43.9	43.2
40°	1756.1	858.4	118.4	85.8	64.5	53.2	46.5	43.2	41.2	39.2	38.6
42.5°	1875.8	825.9	113.0	77.8	57.9	47.2	41.9	37.9	35.9	33.2	32.6
45°	2045.4	818.6	107.1	69.2	51.9	42.6	36.6	32.6	29.9	27.9	27.3
47.5°	2318.0	839.2	97.1	59.8	45.9	37.2	31.3	27.9	24.6	22.6	21.3
50°	2588.6	833.8	87.1	51.9	40.6	31.9	26.6	23.3	19.9	18.0	17.3
52.5°	2736.3	808.6	77.8	45.9	35.2	27.3	22.6	18.6	16.6	14.6	14.0
55°	2869.9	798.6	68.5	39.9	29.9	23.9	18.6	15.3	14.0	12.0	11.3
57.5°	3131.9	821.9	60.5	34.6	25.9	20.6	16.0	12.6	11.3	9.3	8.6
60°	3405.9	824.5	51.9	29.9	22.6	17.3	12.6	10.0	8.6	6.6	6.0
62.5°	3548.8	757.4	42.6	25.3	18.6	14.6	10.6	8.0	6.6	4.0	4.0
65°	3429.1	612.4	35.9	20.6	14.6	11.3	8.0	6.0	4.0	2.0	0.7
67.5°	3034.8	435.5	29.9	16.6	10.6	8.0	6.0	4.0	0.7	0.0	0.0
70°	2222.3	248.7	23.3	12.0	8.0	5.3	4.0	2.0	0.0	0.0	0.0
72.5°	1365.8	133.0	17.3	8.0	6.0	4.0	3.3	1.3	0.0	0.0	0.0
75°	518.0	63.8	10.6	5.3	4.7	3.3	2.0	0.7	0.0	0.0	0.0
77.5°	140.3	31.3	6.0	4.0	3.3	2.0	1.3	0.0	0.0	0.0	0.0
80°	36.6	14.6	4.0	2.7	2.0	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	12.6	6.6	2.0	2.0	1.3	0.7	0.0	0.0	0.0	0.0	0.0
85°	5.3	2.7	1.3	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	0.7	0.7	0.7	0.7	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)