

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: P631564

Luminaire Tested: GWS-SA1F-830-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631564  
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-SA1F-830-U-T2R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (16) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

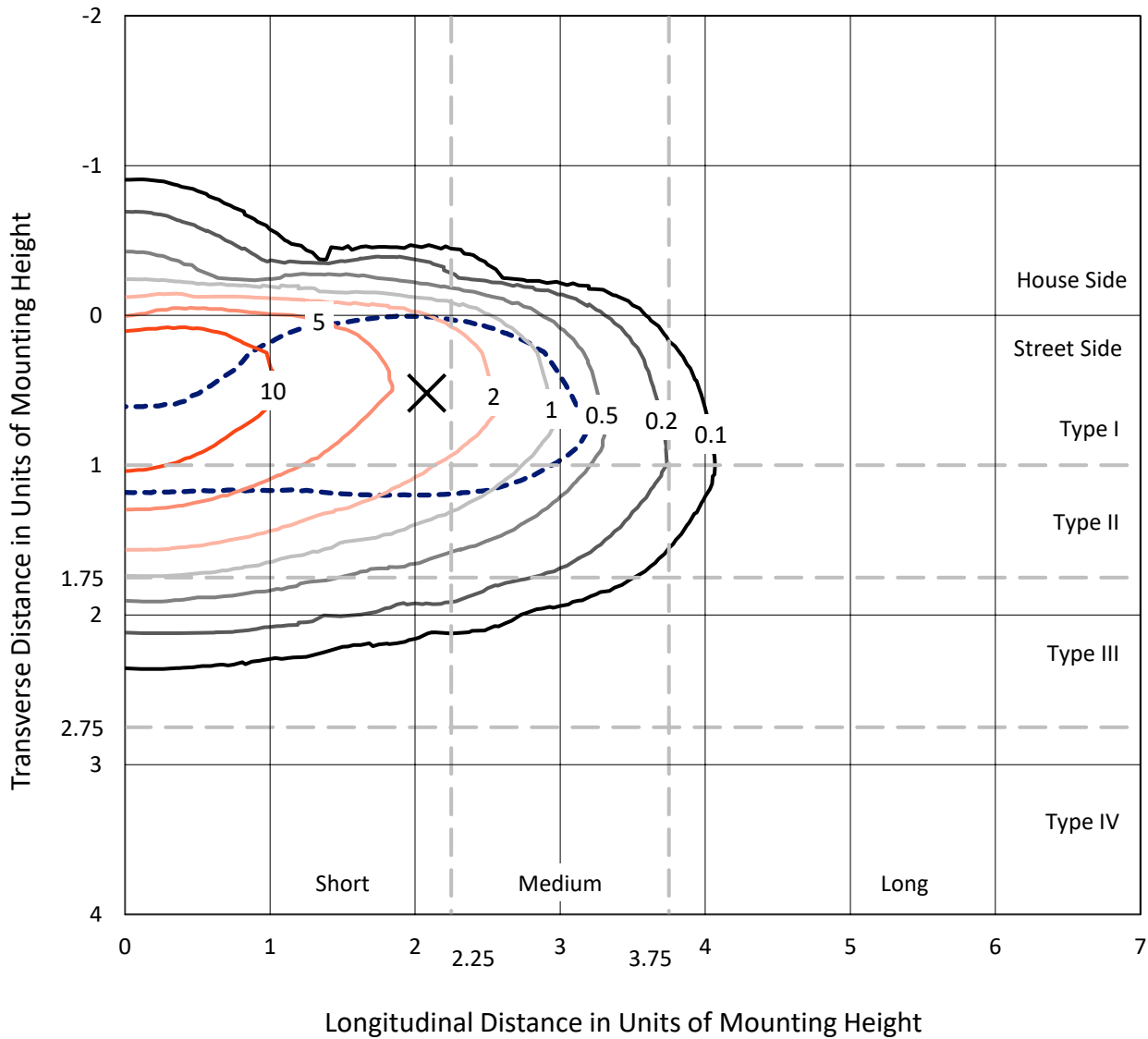
Lumens per Lamp: N/A  
Luminaire Lumens: 5397.5 lumens  
Efficiency: N/A  
Efficacy: 80.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

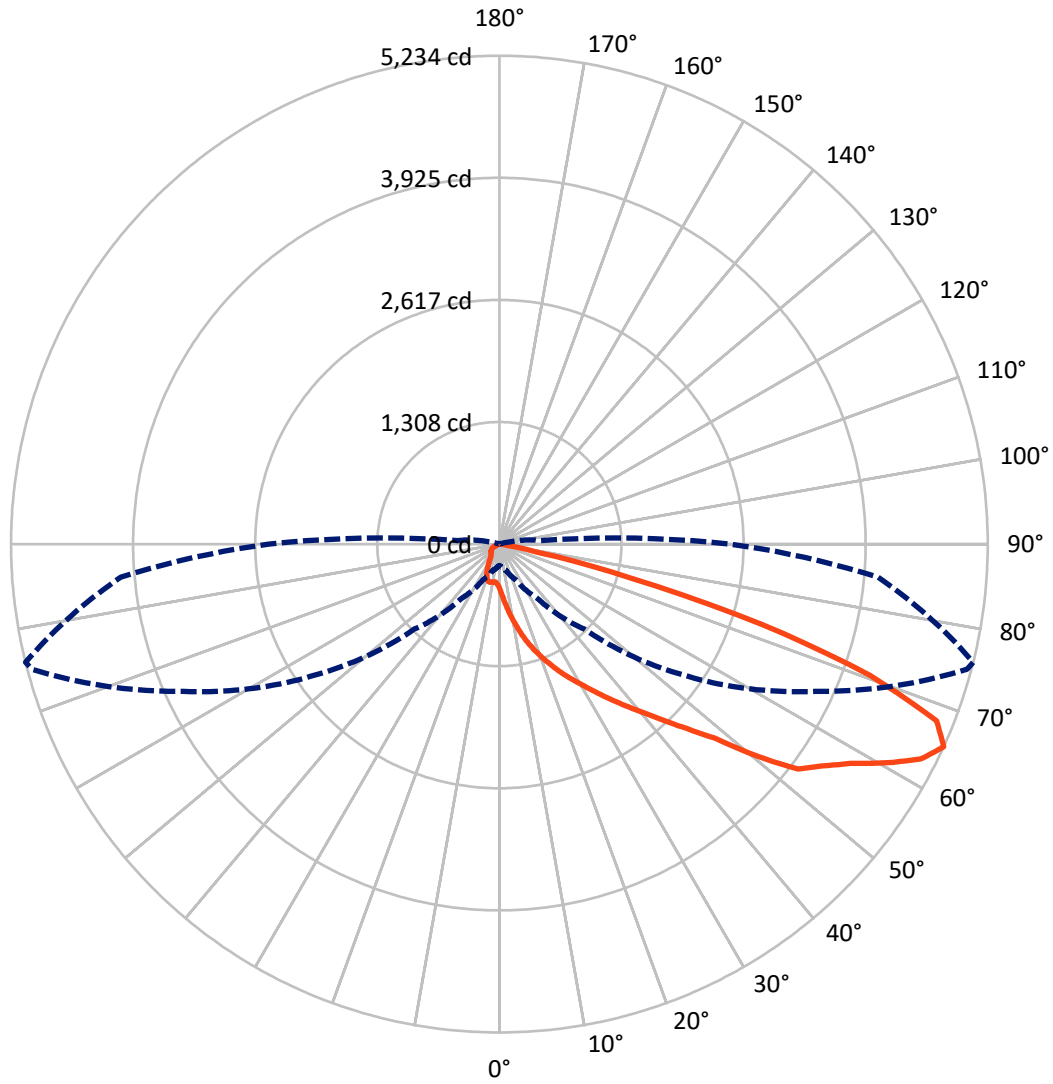
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.2 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	298.5	0.0	298.5
	% Fixture	5.5	0.0	5.5
<b>Street Side</b>	Lumens	5099.0	0.0	5099.0
	% Fixture	94.5	0.0	94.5
<b>Total</b>	Lumens	5397.5	0.0	5397.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.1	1.1
10°-20°	220.6	4.1
20°-30°	450.0	8.3
30°-40°	800.4	14.8
40°-50°	1183.2	21.9
50°-60°	1354.7	25.1
60°-70°	1033.6	19.1
70°-80°	289.5	5.4
80°-90°	7.3	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°	5397.5	100.0
0°-180°	5397.5	100.0

**Coefficient of Utilization**



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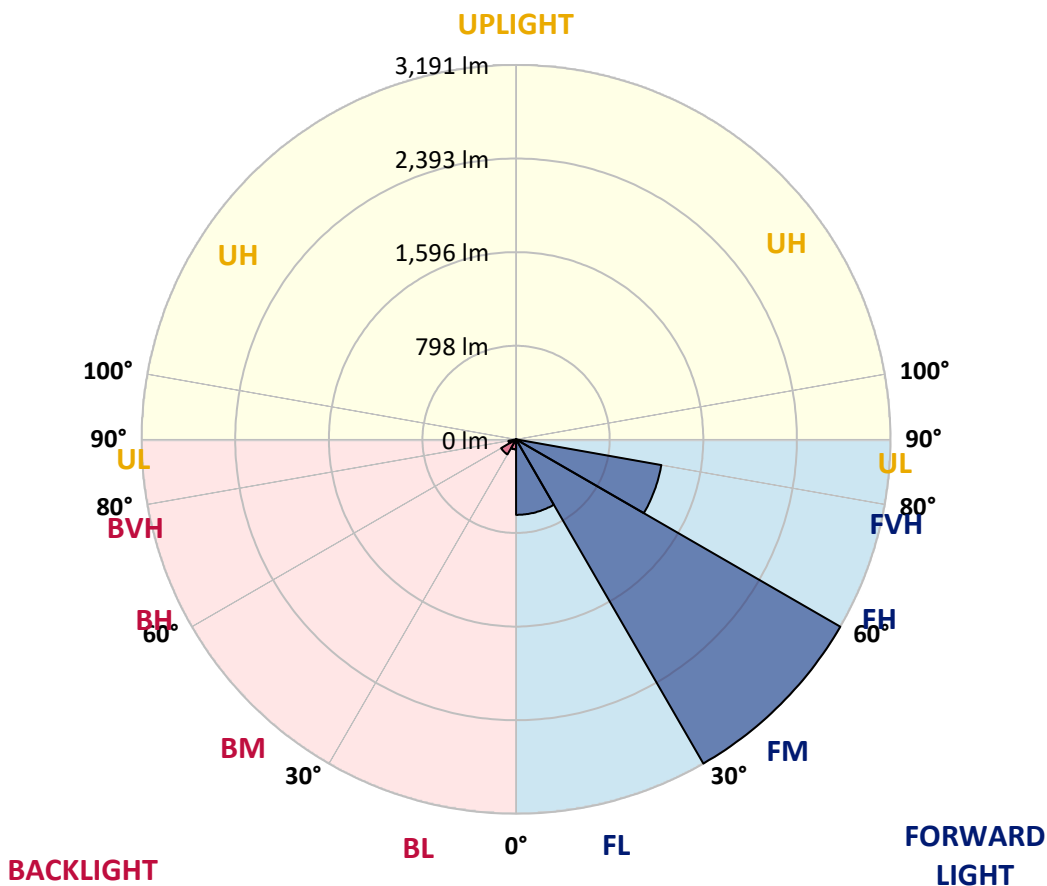
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	643.6	11.9			
FM (30°-60°)	3191.1	59.1			
FH (60°-80°)	1257.5	23.3			G1/1800
FVH (80°-90°)	6.9	0.1			G0/10
BL (0°-30°)	85.2	1.6	B0/110		
BM (30°-60°)	147.2	2.7	B0/220		
BH (60°-80°)	65.6	1.2	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	477.9	477.9	477.9	477.9	477.9	477.9	477.9	477.9	477.9	477.9	477.9
2.5°	736.5	747.5	738.9	724.5	696.7	669.8	635.2	587.7	549.8	545.0	509.5
5°	994.6	993.7	974.9	956.2	927.0	880.9	811.3	723.1	638.1	630.9	551.3
7.5°	1148.1	1149.6	1139.0	1124.6	1095.9	1048.4	975.9	869.4	745.1	730.7	608.4
10°	1277.2	1276.7	1269.1	1262.3	1236.4	1204.8	1127.0	1010.0	860.3	837.7	672.2
12.5°	1374.1	1377.5	1381.3	1388.0	1377.0	1345.8	1272.4	1144.8	976.9	951.9	745.1
15°	1450.9	1451.9	1466.3	1492.2	1501.3	1485.0	1418.3	1275.3	1092.0	1070.4	829.1
17.5°	1473.9	1475.8	1500.3	1547.8	1595.8	1604.9	1554.5	1406.8	1205.2	1182.2	910.7
20°	1522.4	1526.7	1544.9	1586.7	1647.1	1696.1	1676.4	1539.7	1318.5	1288.2	994.1
22.5°	1675.0	1677.4	1671.1	1676.4	1707.6	1764.2	1776.2	1668.2	1434.6	1402.4	1084.3
25°	1937.4	1938.4	1894.7	1853.4	1829.9	1840.5	1866.9	1786.8	1549.7	1518.1	1168.3
27.5°	2209.9	2213.3	2161.0	2090.9	2007.0	1959.0	1951.3	1895.2	1665.8	1630.8	1251.3
30°	2466.6	2466.6	2411.4	2326.0	2213.8	2120.2	2065.0	2004.6	1790.1	1751.7	1336.2
32.5°	2697.4	2695.5	2625.0	2532.4	2421.5	2318.8	2202.7	2118.8	1928.3	1885.6	1434.1
35°	2887.9	2883.1	2803.0	2714.2	2595.7	2519.4	2389.9	2241.6	2078.0	2035.3	1534.9
37.5°	3031.8	3026.5	2953.1	2859.1	2749.2	2699.8	2591.4	2388.9	2235.8	2197.0	1646.7
40°	3110.0	3099.5	3048.6	2978.6	2886.4	2843.3	2798.2	2571.7	2421.5	2373.1	1778.6
42.5°	3133.1	3120.6	3087.0	3054.4	2998.7	2964.7	3013.1	2778.0	2625.4	2583.7	1929.3
45°	3064.9	3057.7	3054.9	3078.4	3088.4	3098.0	3217.5	3006.4	2850.5	2818.8	2118.8
47.5°	2900.8	2898.9	2924.3	3022.2	3128.7	3230.0	3439.6	3288.0	3142.2	3108.1	2383.6
50°	2597.6	2617.3	2688.3	2860.1	3073.1	3304.8	3647.4	3678.6	3614.3	3564.4	2729.1
52.5°	2123.6	2161.5	2320.8	2581.8	2887.9	3283.7	3743.4	3991.4	4057.1	4005.3	2976.6
55°	1666.3	1701.8	1843.9	2174.9	2583.2	3123.0	3747.7	4099.4	4242.8	4194.8	3144.1
57.5°	1241.2	1273.9	1402.9	1719.6	2168.7	2806.8	3645.0	4159.3	4463.1	4432.3	3408.5
60°	811.3	843.5	960.1	1236.9	1682.2	2346.2	3392.1	4146.9	4762.9	4760.0	3733.3
62.5°	450.0	475.5	559.9	775.8	1174.1	1817.0	2994.9	4021.6	5053.2	5071.4	4001.0
65°	230.3	246.6	298.0	426.5	710.6	1288.2	2472.4	3734.7	5187.5	5233.6	4071.5
67.5°	150.7	155.9	168.4	221.7	380.5	810.4	1860.6	3274.6	4998.5	5052.2	3835.0
70°	122.3	126.7	133.9	147.8	196.2	430.4	1222.0	2615.4	4176.6	4213.1	3053.9
72.5°	89.7	95.5	109.4	118.5	141.5	236.1	635.7	1716.7	2868.2	2932.5	1919.2
75°	66.2	69.6	81.1	93.6	115.6	149.2	243.3	902.5	1481.1	1443.7	806.1
77.5°	39.8	42.2	51.8	60.0	82.5	93.1	84.9	333.5	450.5	423.7	194.8
80°	19.7	22.1	34.1	45.1	52.8	37.4	35.5	93.1	100.3	100.3	48.9
82.5°	6.7	8.6	18.2	29.7	25.9	14.4	16.8	24.0	26.9	28.3	14.4
85°	0.0	0.0	4.3	8.6	3.8	1.9	4.3	5.3	6.7	7.2	4.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.4	1.9	1.9
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°	477.9	477.9	477.9	477.9	477.9	477.9	477.9	477.9	477.9	477.9	477.9
2.5°	490.4	467.8	433.7	403.0	379.5	357.4	340.7	327.2	324.8	317.1	318.1
5°	512.4	471.6	408.8	360.3	326.3	303.2	284.0	269.6	263.4	257.2	252.4
7.5°	546.5	487.5	399.2	340.2	300.4	264.8	235.1	211.1	199.6	192.4	187.6
10°	588.2	509.5	399.7	328.2	269.2	214.9	174.2	147.8	135.3	131.5	131.0
12.5°	638.1	537.4	403.5	308.5	224.1	159.8	129.1	117.1	113.2	109.9	109.9
15°	690.9	568.6	403.5	272.5	170.8	124.7	111.8	104.1	99.3	97.4	96.4
17.5°	746.6	597.8	393.9	223.1	131.0	109.9	99.3	92.1	88.3	85.4	84.4
20°	806.1	625.7	369.9	170.8	112.3	98.4	88.3	81.1	77.2	74.4	74.4
22.5°	866.5	651.6	331.1	131.5	99.3	87.3	77.7	71.0	67.2	64.3	64.3
25°	922.6	668.8	281.2	108.4	89.7	77.7	69.1	62.4	58.1	56.1	55.2
27.5°	974.9	679.9	226.0	95.5	80.6	69.6	60.5	54.2	50.9	49.4	48.5
30°	1029.2	682.7	172.7	86.8	72.9	61.4	52.8	48.0	45.1	43.2	43.2
32.5°	1081.9	679.4	131.9	79.6	66.2	54.2	47.0	42.7	40.3	38.9	38.4
35°	1135.7	664.0	107.0	73.4	59.5	47.5	41.7	38.4	36.9	35.0	35.0
37.5°	1194.2	643.4	93.1	67.2	52.8	42.7	37.4	35.0	33.1	31.7	31.2
40°	1267.1	619.4	85.4	61.9	46.5	38.4	33.6	31.2	29.7	28.3	27.8
42.5°	1353.5	595.9	81.6	56.1	41.7	34.1	30.2	27.3	25.9	24.0	23.5
45°	1475.8	590.6	77.2	49.9	37.4	30.7	26.4	23.5	21.6	20.2	19.7
47.5°	1672.6	605.5	70.1	43.2	33.1	26.9	22.6	20.2	17.8	16.3	15.4
50°	1867.8	601.7	62.9	37.4	29.3	23.0	19.2	16.8	14.4	13.0	12.5
52.5°	1974.4	583.4	56.1	33.1	25.4	19.7	16.3	13.4	12.0	10.6	10.1
55°	2070.8	576.2	49.4	28.8	21.6	17.3	13.4	11.0	10.1	8.6	8.2
57.5°	2259.8	593.0	43.7	24.9	18.7	14.9	11.5	9.1	8.2	6.7	6.2
60°	2457.5	594.9	37.4	21.6	16.3	12.5	9.1	7.2	6.2	4.8	4.3
62.5°	2560.7	546.5	30.7	18.2	13.4	10.6	7.7	5.8	4.8	2.9	2.9
65°	2474.3	441.9	25.9	14.9	10.6	8.2	5.8	4.3	2.9	1.4	0.5
67.5°	2189.8	314.3	21.6	12.0	7.7	5.8	4.3	2.9	0.5	0.0	0.0
70°	1603.5	179.4	16.8	8.6	5.8	3.8	2.9	1.4	0.0	0.0	0.0
72.5°	985.5	96.0	12.5	5.8	4.3	2.9	2.4	1.0	0.0	0.0	0.0
75°	373.8	46.1	7.7	3.8	3.4	2.4	1.4	0.5	0.0	0.0	0.0
77.5°	101.2	22.6	4.3	2.9	2.4	1.4	1.0	0.0	0.0	0.0	0.0
80°	26.4	10.6	2.9	1.9	1.4	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	9.1	4.8	1.4	1.4	1.0	0.5	0.0	0.0	0.0	0.0	0.0
85°	3.8	1.9	1.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.4	0.5	0.5	0.5	0.5	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)