

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: P631293

Luminaire Tested: GWS-SA1F-735-U-T3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631293  
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-SA1F-735-U-T3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (16) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

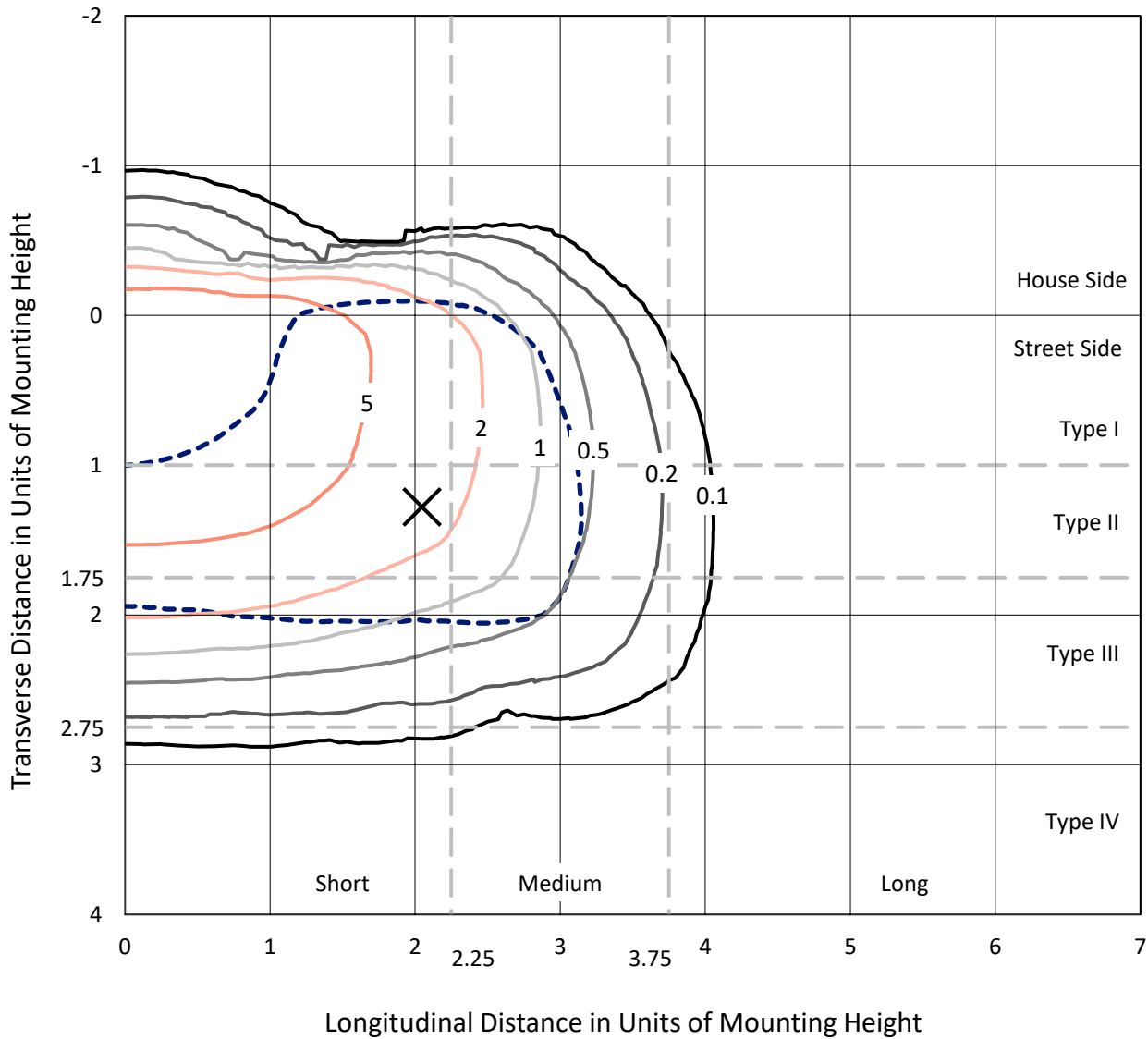
Lumens per Lamp: N/A  
Luminaire Lumens: 6100.4 lumens  
Efficiency: N/A  
Efficacy: 90.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

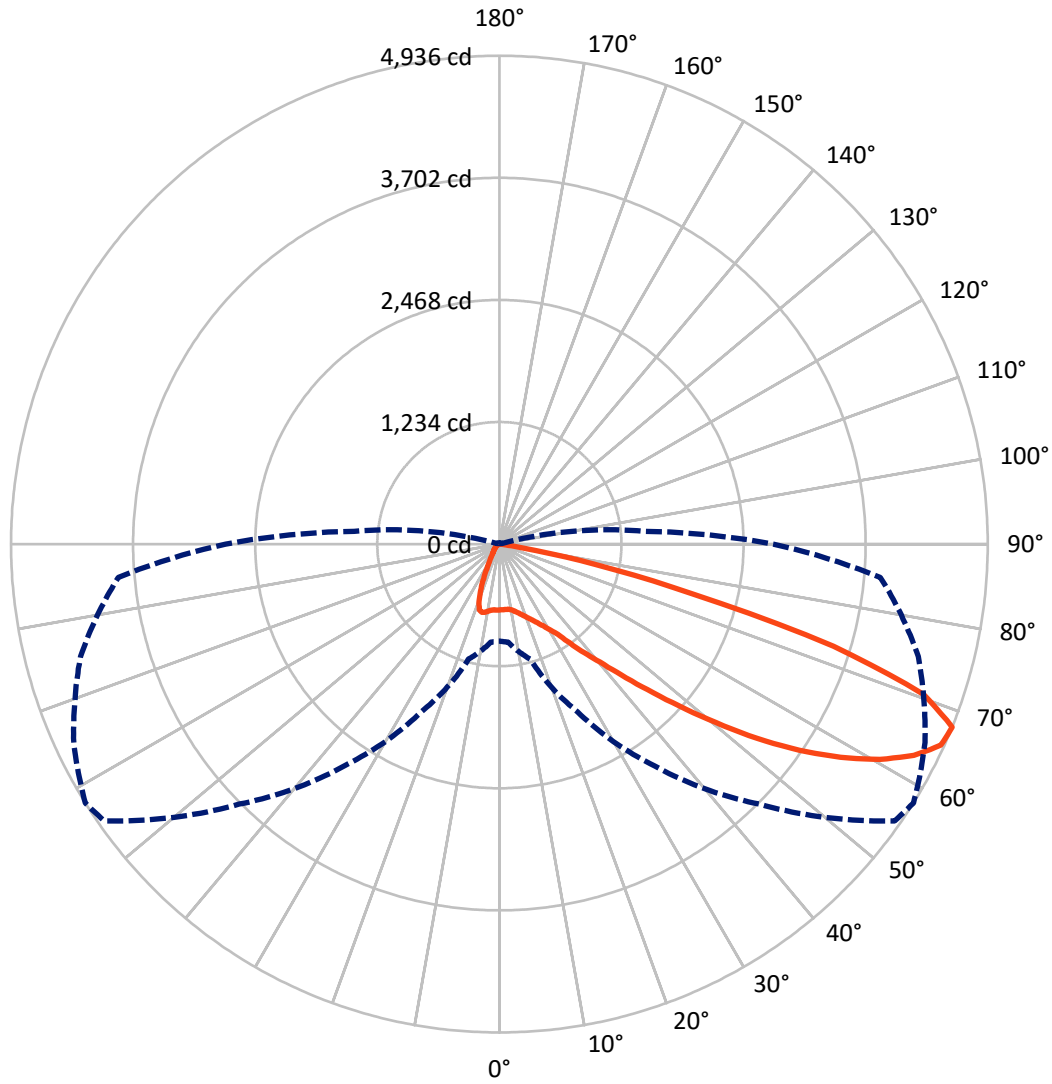
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.3 fc  
 Type III - Short - N/A

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CATALOG NUMBER: GWS-SA1F-735-U-T3-W-HSS

### Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GWS-SA1F-735-U-T3-W-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	665.5	0.0	665.5
	% Fixture	10.9	0.0	10.9
<b>Street Side</b>	Lumens	5434.9	0.0	5434.9
	% Fixture	89.1	0.0	89.1
<b>Total</b>	Lumens	6100.4	0.0	6100.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.4	1.0
10°-20°	175.3	2.9
20°-30°	306.0	5.0
30°-40°	546.6	9.0
40°-50°	999.0	16.4
50°-60°	1661.5	27.2
60°-70°	1804.6	29.6
70°-80°	529.9	8.7
80°-90°	15.1	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°	6100.4	100.0
0°-180°	6100.4	100.0

**Coefficient of Utilization**



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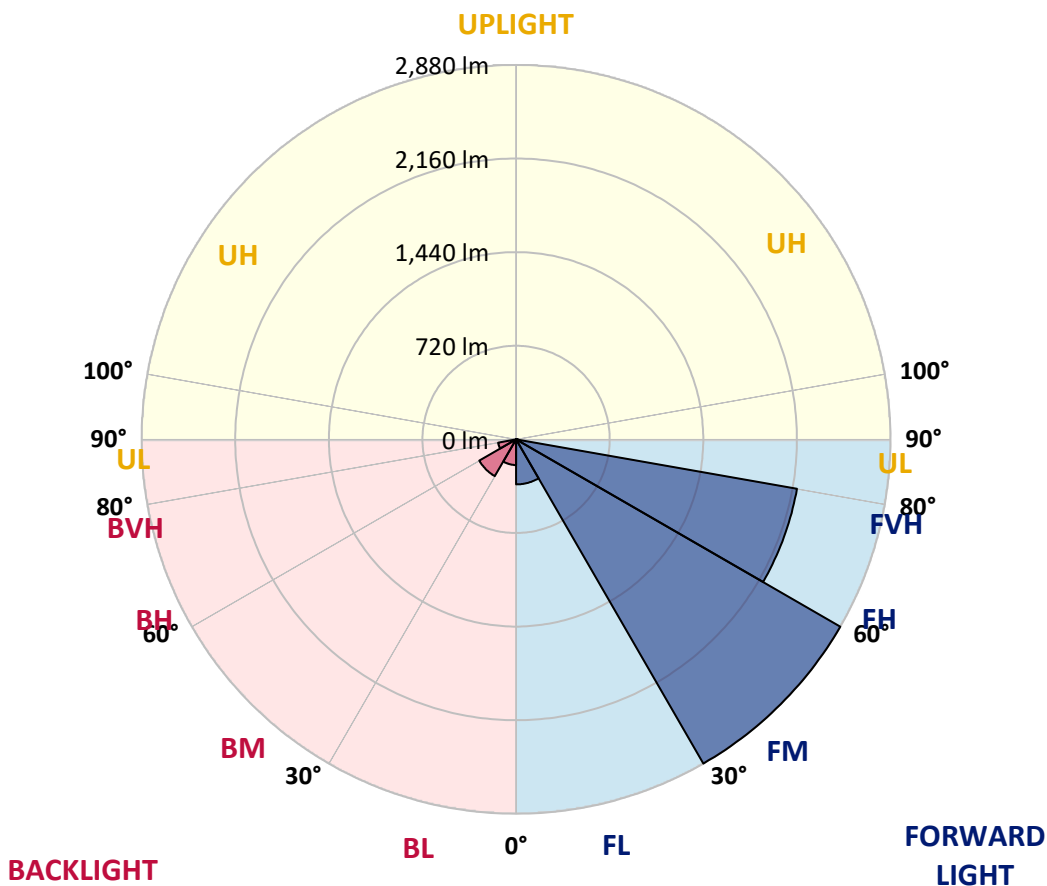
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	346.4	5.7			
FM (30°-60°)	2880.1	47.2			
FH (60°-80°)	2194.0	36.0			G2/5000
FVH (80°-90°)	14.3	0.2			G1/100
BL (0°-30°)	197.4	3.2	B1/500		
BM (30°-60°)	326.9	5.4	B1/1000		
BH (60°-80°)	140.5	2.3	B1/500		G1/500
BVH (80°-90°)	0.7	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°	664.8	664.8	664.8	664.8	664.8	664.8	664.8	664.8	664.8	664.8	664.8
2.5°	652.3	651.1	651.1	655.8	656.4	658.8	664.2	664.8	667.7	666.5	662.4
5°	618.3	618.9	622.5	630.8	638.0	646.9	660.0	663.0	669.5	673.1	670.7
7.5°	586.7	587.3	592.7	605.8	619.5	637.4	658.8	664.8	677.9	687.4	688.0
10°	574.8	574.2	579.6	594.5	612.3	637.4	668.3	676.1	695.7	712.4	715.4
12.5°	578.4	577.8	583.2	596.9	616.5	648.1	685.0	695.7	720.8	746.4	751.7
15°	592.7	592.1	595.7	607.0	628.4	661.2	706.5	722.5	754.1	785.1	793.4
17.5°	635.6	632.6	629.0	630.2	642.7	676.7	733.9	753.5	792.8	829.8	836.9
20°	711.8	704.1	694.5	682.0	676.1	699.3	765.4	788.1	835.7	878.0	879.2
22.5°	826.8	823.8	801.8	765.4	739.8	740.4	802.4	828.6	886.9	933.4	926.9
25°	987.0	985.2	951.3	891.7	825.0	802.4	849.4	876.2	947.7	997.1	976.3
27.5°	1186.0	1173.5	1133.5	1053.1	953.7	882.8	909.0	932.8	1012.0	1058.5	1019.2
30°	1359.3	1359.9	1322.4	1238.4	1126.4	1003.7	981.7	1002.5	1071.0	1119.8	1072.2
32.5°	1526.1	1531.5	1490.4	1414.7	1292.0	1161.5	1085.9	1089.5	1146.7	1199.7	1141.9
35°	1681.0	1685.1	1656.5	1592.2	1477.8	1326.5	1231.2	1229.5	1260.4	1314.6	1239.0
37.5°	1854.3	1858.5	1830.5	1772.7	1665.5	1515.4	1396.2	1393.9	1406.4	1450.4	1364.1
40°	2039.0	2046.7	2015.7	1966.9	1864.4	1737.6	1588.0	1566.6	1554.1	1605.9	1526.1
42.5°	2226.0	2237.9	2227.2	2178.3	2090.8	1985.9	1837.0	1803.7	1776.9	1841.8	1757.2
45°	2458.3	2472.6	2467.8	2430.3	2362.4	2277.2	2136.6	2097.9	2085.4	2145.6	2044.9
47.5°	2681.7	2697.2	2714.4	2706.1	2657.9	2618.5	2462.5	2440.4	2436.9	2501.2	2345.1
50°	2847.9	2862.2	2928.3	2975.9	3008.7	3000.4	2865.1	2832.4	2827.0	2868.1	2662.0
52.5°	2967.0	2980.7	3071.8	3220.8	3341.1	3406.6	3270.2	3263.0	3233.9	3219.6	2958.7
55°	3059.3	3078.4	3174.3	3399.5	3641.9	3787.2	3702.1	3676.4	3601.4	3519.2	3233.9
57.5°	3077.8	3085.5	3220.8	3524.5	3875.4	4110.7	4110.7	4066.0	3921.3	3807.5	3551.9
60°	2912.2	2936.0	3118.9	3514.4	3975.5	4322.1	4449.6	4418.6	4223.3	4083.3	3858.1
62.5°	2544.7	2571.5	2794.3	3272.0	3875.4	4365.6	4706.3	4701.6	4481.2	4311.4	4111.9
65°	1951.4	1971.1	2165.2	2737.1	3452.5	4198.2	4889.8	4902.9	4684.9	4462.1	4199.4
67.5°	980.5	994.2	1203.8	1869.8	2736.5	3716.3	4877.3	4935.7	4746.8	4382.3	3865.3
70°	342.5	356.2	455.1	802.4	1665.5	2837.7	4455.6	4550.9	4382.9	3740.8	2851.4
72.5°	117.3	123.9	188.8	297.8	648.1	1682.2	3388.1	3531.7	3230.9	2511.3	1638.7
75°	66.7	70.9	101.3	161.4	271.6	553.4	1922.2	2010.4	1883.5	1368.8	674.3
77.5°	45.3	48.8	63.1	91.7	150.1	178.1	783.9	987.0	860.7	446.7	172.1
80°	26.8	29.2	38.7	54.2	76.8	69.1	168.0	223.4	287.7	133.4	51.8
82.5°	12.5	14.3	25.0	35.7	38.7	29.2	49.4	60.2	81.0	65.5	21.4
85°	0.0	0.0	8.3	14.9	14.3	8.3	13.7	14.9	22.0	32.8	8.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.6	1.2	1.8	3.6	6.6	3.6
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°	664.8	664.8	664.8	664.8	664.8	664.8	664.8	664.8	664.8	664.8	664.8
2.5°	667.1	663.0	667.7	665.4	667.7	667.1	662.4	659.4	659.4	654.0	652.3
5°	675.5	671.3	672.5	667.1	666.0	663.0	657.0	654.6	654.6	649.3	647.5
7.5°	693.9	687.4	686.2	675.5	670.7	662.4	651.7	647.5	646.9	641.5	639.7
10°	723.1	715.4	710.0	696.3	682.6	666.0	643.3	624.3	613.5	599.2	598.0
12.5°	758.9	749.3	741.0	720.2	697.5	660.0	593.3	523.6	480.7	446.7	449.1
15°	798.8	789.9	776.7	745.2	698.7	601.0	461.6	354.4	302.0	274.0	272.8
17.5°	842.3	829.2	807.7	764.8	661.2	459.3	300.2	212.1	184.7	175.1	172.7
20°	882.8	866.7	839.9	769.0	552.8	310.9	187.6	164.4	159.6	156.7	156.7
22.5°	925.7	905.4	865.5	736.8	411.0	199.0	159.6	154.3	150.7	146.5	145.9
25°	969.1	942.9	888.7	652.8	269.2	156.7	149.5	143.6	137.0	130.5	128.7
27.5°	1006.1	972.1	906.6	527.8	172.7	141.2	136.4	126.3	117.3	110.2	109.0
30°	1050.2	1006.7	914.3	386.0	135.8	124.5	117.3	106.6	95.9	88.8	86.4
32.5°	1109.1	1061.5	902.4	251.4	120.3	109.6	98.3	85.8	75.1	67.3	66.1
35°	1200.9	1144.3	847.6	160.2	109.0	94.7	81.0	67.9	59.0	53.0	51.8
37.5°	1312.8	1260.4	757.7	120.3	97.7	82.2	66.1	53.6	47.1	42.9	41.7
40°	1479.0	1405.8	646.3	105.4	86.4	69.7	54.2	44.1	39.3	35.7	34.5
42.5°	1694.7	1577.3	518.2	95.9	75.6	58.4	44.1	36.3	32.2	29.8	29.2
45°	1946.6	1744.7	383.0	86.4	65.5	48.2	36.3	29.8	26.8	25.0	24.4
47.5°	2204.6	1891.2	264.5	76.2	56.0	39.9	30.4	25.6	23.2	20.8	20.3
50°	2479.8	2015.1	180.5	66.1	47.7	32.8	26.2	23.2	20.3	18.5	17.9
52.5°	2681.7	2061.0	125.7	57.2	40.5	28.0	23.2	20.8	18.5	16.1	15.5
55°	2868.1	2059.8	95.3	48.2	34.5	24.4	20.8	18.5	16.1	14.3	13.7
57.5°	3054.0	2043.7	75.1	41.1	29.8	22.0	18.5	16.1	14.9	12.5	11.9
60°	3174.3	1983.0	58.4	34.5	25.6	19.1	16.1	14.3	12.5	10.7	10.1
62.5°	3238.0	1898.4	44.7	27.4	20.8	16.7	14.3	12.5	10.7	8.9	8.3
65°	3151.7	1748.3	35.1	21.4	16.1	14.3	11.9	10.1	8.3	6.6	6.0
67.5°	2768.6	1474.3	27.4	17.3	12.5	10.7	10.1	8.3	6.0	4.8	4.2
70°	1956.8	1009.7	21.4	13.1	9.5	8.3	7.7	6.6	4.8	3.6	3.0
72.5°	1074.0	509.3	15.5	9.5	7.1	6.6	6.0	5.4	4.2	3.0	3.0
75°	413.4	140.0	11.3	6.6	4.8	4.8	4.2	4.2	3.6	2.4	2.4
77.5°	107.8	41.7	7.1	4.2	3.0	3.0	3.0	2.4	2.4	1.8	1.8
80°	34.5	13.7	4.2	3.0	2.4	1.8	1.8	1.2	1.8	1.2	1.2
82.5°	11.3	4.8	2.4	2.4	1.8	1.2	1.2	0.6	0.6	0.0	0.0
85°	4.2	2.4	1.8	1.2	1.2	1.2	0.6	0.0	0.0	0.0	0.0
87.5°	2.4	1.2	1.2	1.2	1.2	0.6	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)