

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: P629789

Luminaire Tested: GWS-SA1C-735-U-SL4-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P629789  
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-SA1C-735-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) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

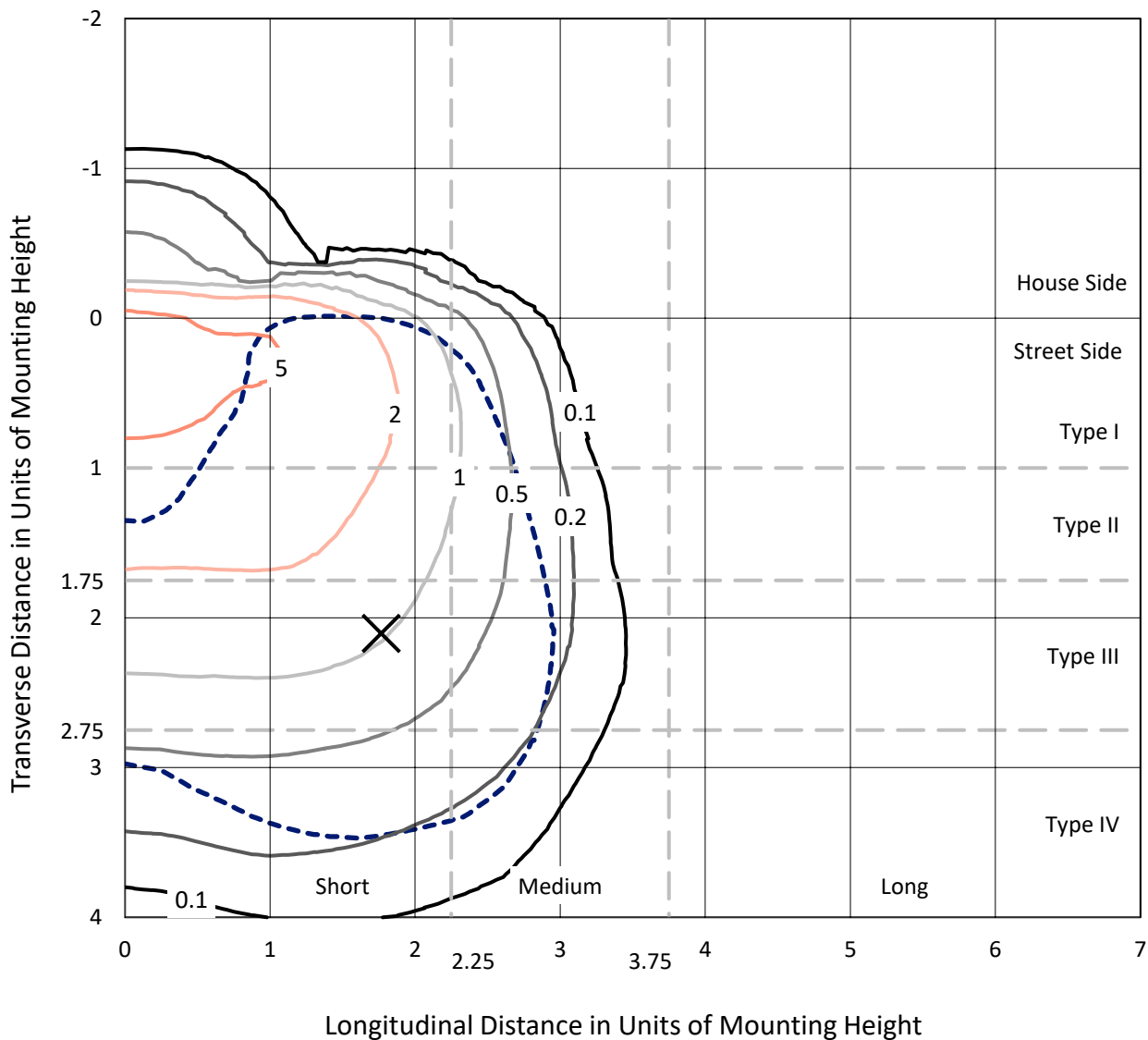
Lumens per Lamp: N/A  
Luminaire Lumens: 3735.2 lumens  
Efficiency: N/A  
Efficacy: 109.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 34.1  
Input Voltage (V): 120  
Input Current (Ain): 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

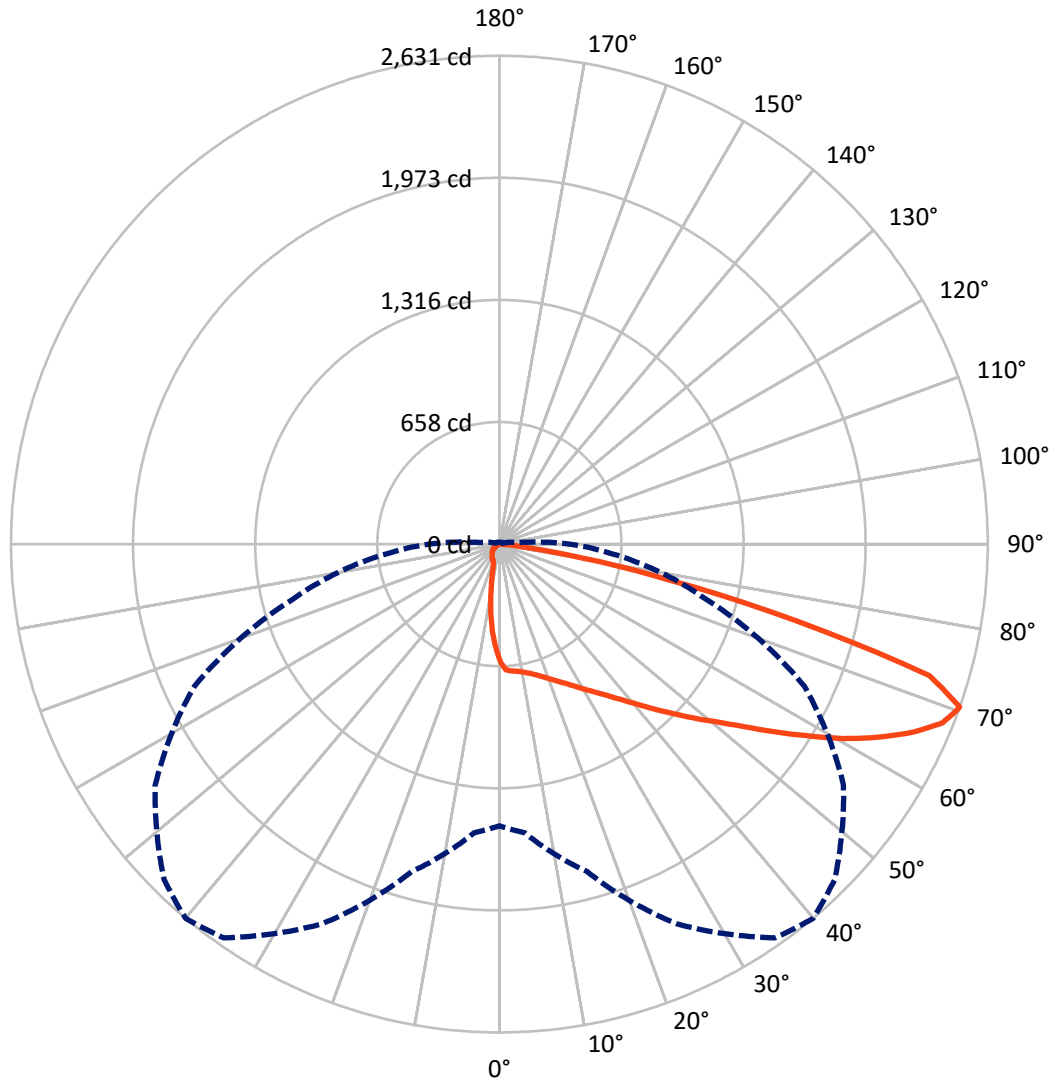
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.9 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	305.4	0.0	305.4
	% Fixture	8.2	0.0	8.2
<b>Street Side</b>	Lumens	3429.8	0.0	3429.8
	% Fixture	91.8	0.0	91.8
<b>Total</b>	Lumens	3735.2	0.0	3735.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.6	1.4
10°-20°	135.9	3.6
20°-30°	227.4	6.1
30°-40°	357.2	9.6
40°-50°	564.9	15.1
50°-60°	824.1	22.1
60°-70°	1021.6	27.4
70°-80°	516.9	13.8
80°-90°	33.7	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°	3735.2	100.0
0°-180°	3735.2	100.0

**Coefficient of Utilization**



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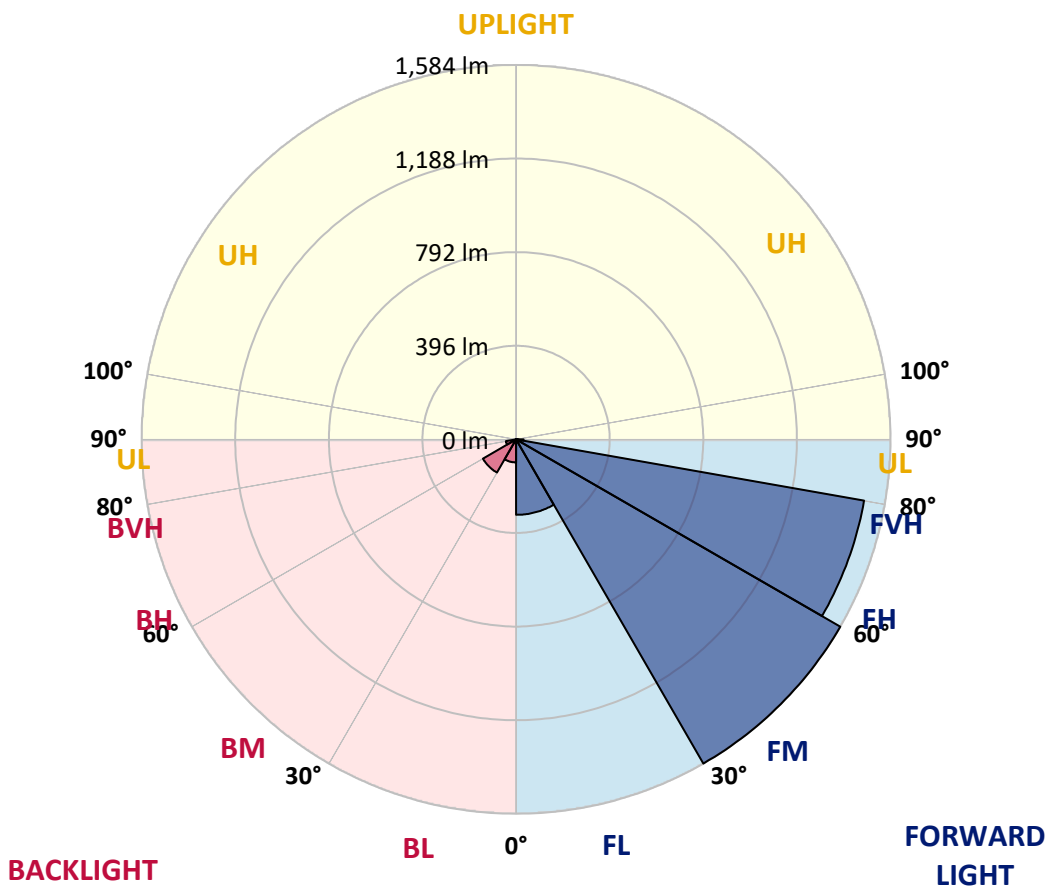
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	319.3	8.5			
FM (30°-60°)	1584.1	42.4			
FH (60°-80°)	1494.9	40.0			G1/1800
FVH (80°-90°)	31.5	0.8			G1/100
BL (0°-30°)	97.5	2.6	B0/110		
BM (30°-60°)	162.1	4.3	B0/220		
BH (60°-80°)	43.6	1.2	B0/110		G0/110
BVH (80°-90°)	2.2	0.1			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	633.8	633.8	633.8	633.8	633.8	633.8	633.8	633.8	633.8	633.8	633.8
2.5°	681.4	683.8	683.4	684.5	682.1	678.3	677.7	672.6	663.4	651.8	638.9
5°	695.3	698.1	696.0	695.0	690.6	686.5	685.5	680.0	669.5	653.9	631.4
7.5°	707.2	707.9	706.5	704.2	697.7	692.3	688.5	681.1	668.5	652.9	627.0
10°	709.3	708.9	709.6	709.9	705.9	701.1	698.1	687.9	671.9	655.2	627.4
12.5°	706.9	706.9	711.3	716.4	716.4	714.0	711.0	701.8	683.1	663.4	634.2
15°	709.9	711.0	719.5	729.0	732.0	729.7	728.3	718.8	699.4	677.7	646.4
17.5°	720.8	721.8	735.4	749.7	753.4	750.7	748.0	738.5	717.8	694.0	660.3
20°	736.8	739.5	756.8	775.2	778.6	775.2	769.8	756.5	735.8	711.6	673.6
22.5°	766.0	767.7	786.4	805.8	807.5	802.0	793.9	775.5	753.8	730.3	688.5
25°	804.8	807.1	825.8	844.5	840.1	832.0	820.7	800.0	775.2	752.4	707.6
27.5°	851.0	853.7	872.1	888.4	876.8	867.3	854.7	828.9	803.7	783.0	732.0
30°	900.9	903.3	919.6	934.2	919.0	907.7	892.8	866.3	840.8	825.2	766.7
32.5°	949.2	948.9	964.5	976.4	960.8	951.9	938.3	911.5	891.1	884.3	818.4
35°	994.1	994.1	1007.0	1018.9	1007.7	1002.9	990.3	968.9	957.4	965.5	887.3
37.5°	1039.3	1036.9	1049.1	1062.4	1061.3	1061.7	1054.6	1044.4	1045.0	1073.9	982.2
40°	1076.6	1075.6	1089.9	1107.2	1120.8	1131.7	1127.3	1131.0	1152.4	1206.5	1103.5
42.5°	1106.5	1108.9	1127.3	1154.8	1189.1	1211.2	1214.3	1229.6	1284.6	1368.2	1240.4
45°	1140.9	1141.2	1166.7	1208.8	1263.6	1298.6	1310.8	1350.2	1428.4	1536.1	1390.7
47.5°	1183.0	1178.9	1207.5	1266.6	1345.8	1397.5	1419.2	1468.5	1589.5	1699.9	1513.0
50°	1229.6	1222.1	1254.4	1334.9	1437.9	1502.5	1546.7	1618.7	1749.2	1834.5	1604.1
52.5°	1283.6	1276.5	1313.2	1413.4	1548.4	1626.9	1683.6	1756.3	1886.2	1937.1	1658.5
55°	1352.3	1345.1	1383.9	1507.6	1678.9	1780.8	1840.3	1901.5	2013.6	2012.9	1697.9
57.5°	1428.4	1418.5	1472.2	1626.5	1841.6	1947.7	2008.2	2038.1	2110.5	2071.7	1724.4
60°	1515.7	1506.9	1581.3	1768.2	2029.6	2127.8	2165.9	2153.6	2190.0	2106.4	1715.2
62.5°	1594.6	1590.5	1682.9	1918.4	2208.7	2291.6	2302.1	2248.8	2248.4	2107.1	1653.4
65°	1676.5	1684.3	1821.6	2091.4	2388.8	2444.5	2426.5	2343.3	2271.9	2023.8	1470.5
67.5°	1707.1	1729.8	1913.0	2247.8	2530.9	2574.4	2542.8	2390.5	2174.4	1743.8	1119.8
70°	1518.1	1560.9	1826.7	2256.6	2589.7	2631.1	2555.3	2263.4	1812.8	1155.1	613.4
72.5°	1154.5	1204.4	1522.2	1847.8	2329.0	2423.5	2294.0	1844.0	1168.4	506.0	205.9
75°	646.1	700.1	1133.7	1391.3	1563.6	1650.0	1602.4	1183.0	517.6	132.2	61.5
77.5°	218.5	236.5	527.4	860.8	1032.1	954.6	808.2	587.6	190.3	50.3	32.6
80°	129.5	136.3	196.4	428.5	543.1	450.3	355.5	217.2	96.9	26.8	22.8
82.5°	38.7	45.9	108.4	159.0	212.7	132.5	112.2	124.0	50.3	14.6	19.0
85°	0.0	0.0	23.1	49.3	55.7	21.8	21.8	70.3	9.2	6.1	13.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.7	1.0	1.4	3.1
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°	633.8	633.8	633.8	633.8	633.8	633.8	633.8	633.8	633.8	633.8	633.8
2.5°	629.7	617.8	603.9	590.7	578.1	561.8	554.0	544.4	536.3	531.9	534.2
5°	617.2	598.5	569.9	541.0	511.8	484.3	459.5	442.8	427.9	420.1	421.8
7.5°	606.3	581.1	536.6	489.4	442.5	395.2	356.8	326.9	303.8	294.3	292.6
10°	601.5	569.9	507.1	439.1	367.0	303.5	249.1	216.1	192.7	181.1	183.2
12.5°	603.9	564.1	481.9	389.8	296.3	222.3	170.3	139.3	122.7	115.9	114.2
15°	610.7	562.8	459.5	339.5	228.7	155.3	117.6	105.0	101.6	100.9	100.9
17.5°	618.5	563.1	436.4	288.5	173.7	115.2	100.6	98.2	97.2	96.5	96.9
20°	626.3	563.1	409.9	236.9	130.5	99.6	95.8	94.1	93.1	92.8	92.8
22.5°	635.9	563.1	380.3	189.0	104.7	94.5	91.4	90.4	89.4	89.0	88.7
25°	647.4	563.5	347.7	147.8	95.2	90.1	87.7	86.7	85.6	85.0	85.0
27.5°	664.1	566.2	311.6	115.2	89.7	86.0	83.9	82.9	81.9	80.9	80.9
30°	688.2	573.0	271.2	95.2	84.6	81.6	79.5	78.8	77.8	76.8	76.5
32.5°	724.2	584.9	229.4	85.3	79.9	76.8	74.4	73.7	72.7	71.7	71.4
35°	774.5	606.6	188.6	79.2	73.7	70.7	69.3	69.0	67.6	66.6	66.6
37.5°	848.3	642.0	149.5	73.1	68.6	66.3	64.6	63.9	62.5	61.5	61.2
40°	938.3	687.9	116.2	68.3	63.9	61.5	59.8	58.8	57.1	55.7	55.1
42.5°	1053.2	743.9	91.8	63.2	59.5	57.1	55.7	53.7	51.3	49.3	48.9
45°	1172.8	801.7	75.8	58.5	55.4	53.4	51.7	48.9	45.5	43.2	42.5
47.5°	1264.6	837.7	66.3	53.4	51.0	49.3	47.2	43.8	39.8	37.0	36.4
50°	1330.2	843.2	59.1	48.6	47.2	45.5	42.5	38.4	34.0	31.3	30.6
52.5°	1362.5	818.7	53.4	44.2	43.2	41.5	37.7	33.3	28.5	25.8	25.1
55°	1377.1	772.5	47.9	40.4	39.1	37.0	33.0	28.2	23.4	21.1	20.4
57.5°	1371.3	704.2	43.2	36.7	35.0	32.6	28.2	23.1	19.4	17.0	16.7
60°	1328.5	608.3	38.4	33.0	30.9	28.2	23.8	19.0	15.6	13.9	13.6
62.5°	1236.0	489.4	33.6	28.5	27.2	24.5	20.4	15.6	12.9	11.9	11.6
65°	1046.7	346.0	28.9	24.1	23.4	20.7	17.0	12.9	11.2	10.5	10.2
67.5°	752.4	210.4	24.5	20.7	20.1	17.7	14.3	11.2	10.2	9.9	9.9
70°	378.3	99.6	19.4	17.0	17.0	14.6	12.2	10.2	9.9	9.5	9.5
72.5°	128.5	42.5	14.6	13.3	13.9	12.6	10.5	9.5	9.5	9.5	9.5
75°	43.8	22.4	10.2	9.5	10.2	10.2	9.2	9.2	9.5	9.5	9.5
77.5°	28.5	15.0	7.1	6.5	7.8	7.8	7.8	8.5	9.2	9.2	9.2
80°	23.4	8.2	4.8	4.4	5.8	5.8	6.5	7.8	8.5	8.5	8.5
82.5°	20.1	5.1	2.7	3.1	4.1	4.4	5.4	6.5	7.5	7.8	7.8
85°	13.6	2.7	2.0	2.4	2.7	3.4	4.4	5.4	6.1	6.8	6.8
87.5°	3.7	1.0	1.4	1.7	1.7	2.4	3.4	4.1	4.8	5.1	5.1
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)