

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: P629884

Luminaire Tested: GWS-SA1C-750-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P629884  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1C-750-U-AFL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (16) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

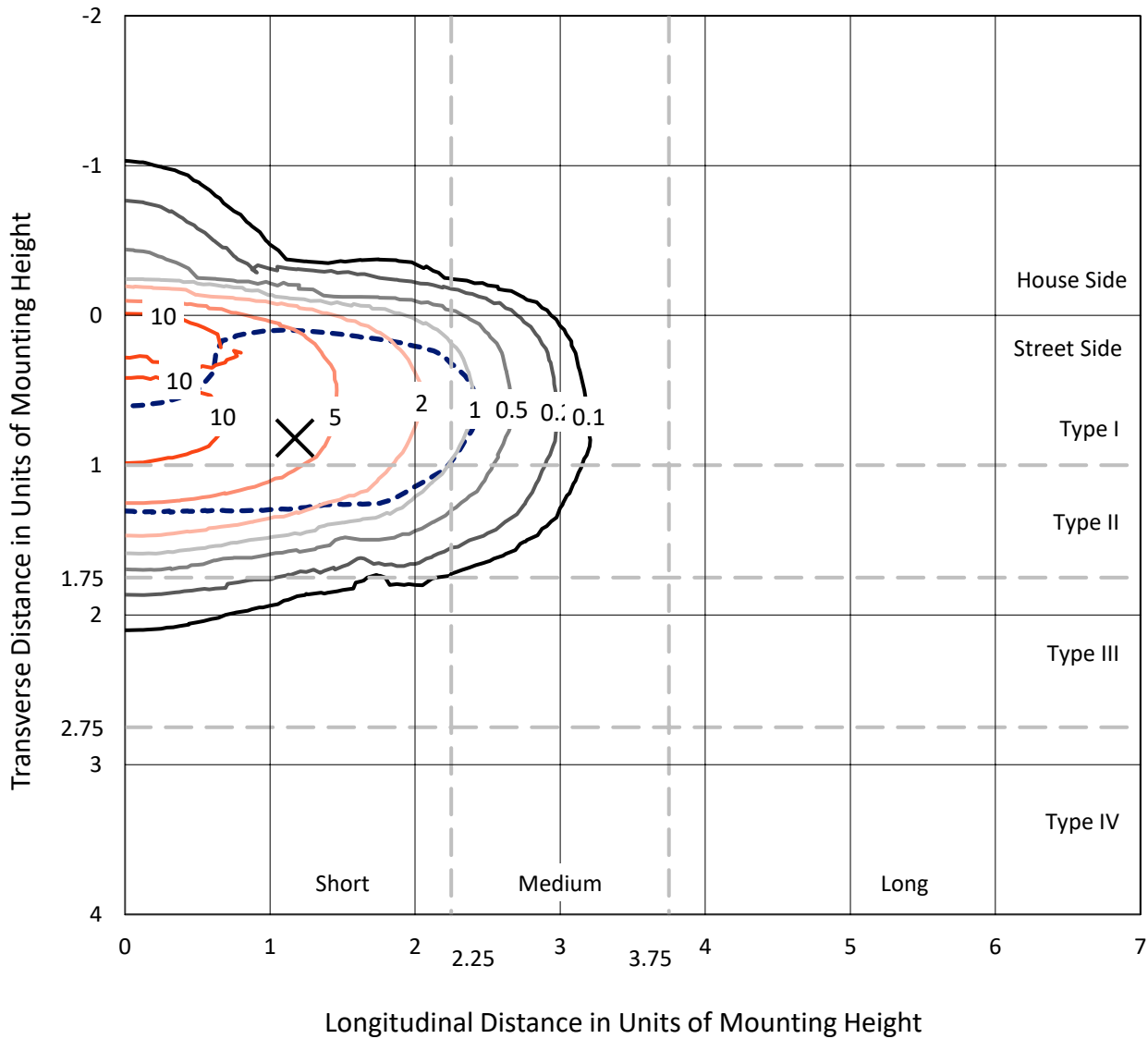
Lumens per Lamp: N/A  
Luminaire Lumens: 4123.1 lumens  
Efficiency: N/A  
Efficacy: 120.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 34.1  
Input Voltage (V): 120  
Input Current (Ain): 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

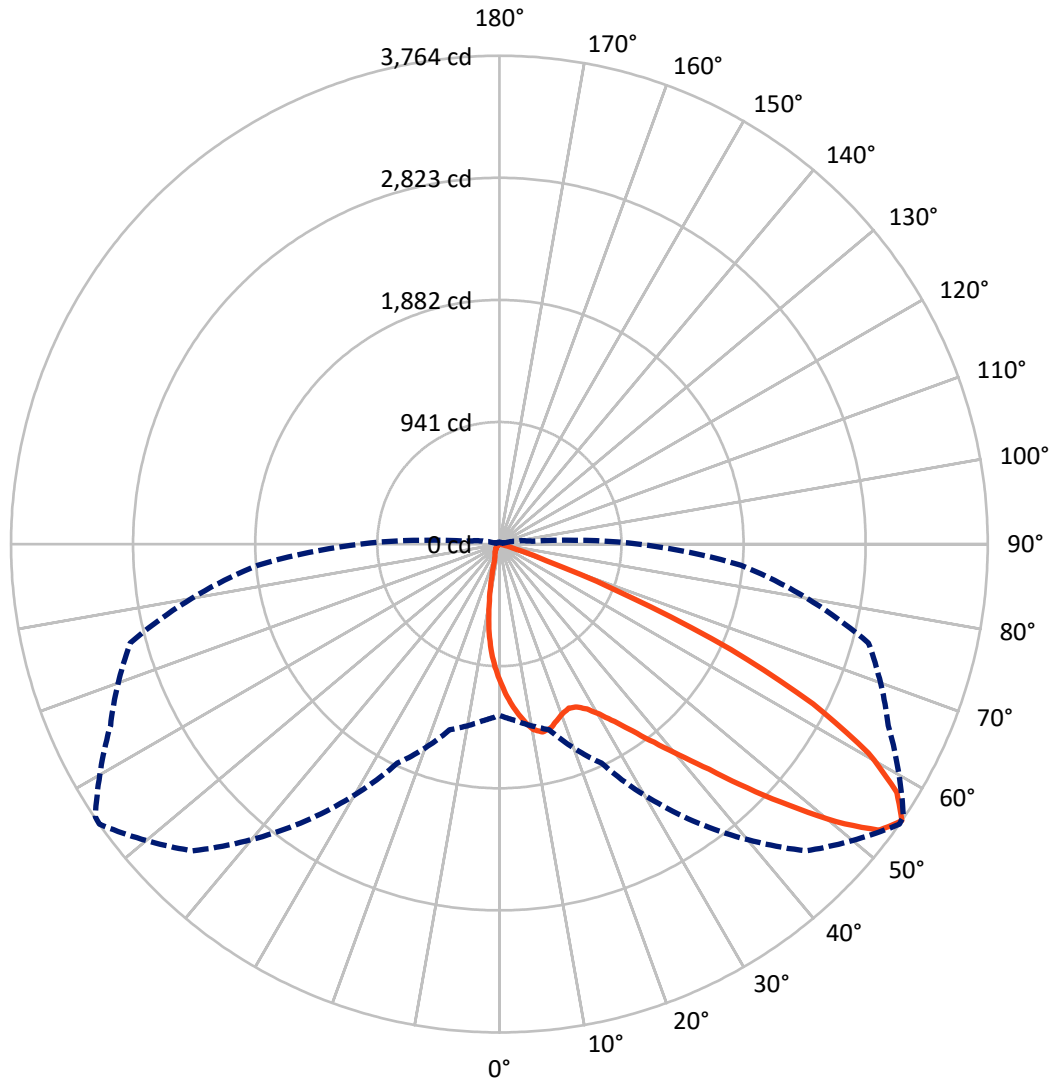
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	254.4	0.0	254.4
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	3868.7	0.0	3868.7
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	4123.1	0.0	4123.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.1	2.3
10°-20°	227.0	5.5
20°-30°	378.0	9.2
30°-40°	644.1	15.6
40°-50°	1051.3	25.5
50°-60°	1100.7	26.7
60°-70°	555.2	13.5
70°-80°	70.1	1.7
80°-90°	2.7	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°	4123.1	100.0
0°-180°	4123.1	100.0

**Coefficient of Utilization**



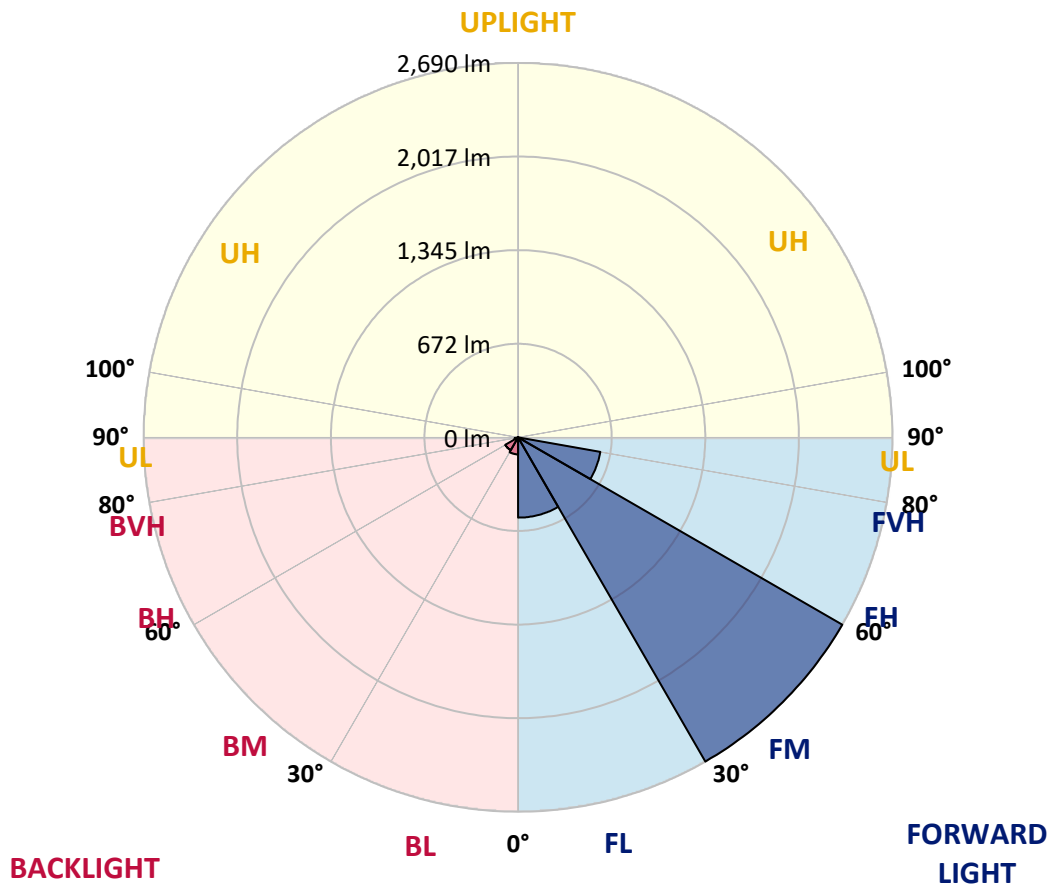
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	576.8	14.0			
FM (30°-60°)	2689.7	65.2			
FH (60°-80°)	599.8	14.5			G0/660
FVH (80°-90°)	2.4	0.1			G0/10
BL (0°-30°)	122.3	3.0	B1/500		
BM (30°-60°)	106.4	2.6	B0/220		
BH (60°-80°)	25.5	0.6	B0/110		G0/110
BVH (80°-90°)	0.2	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-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1065.2	1065.2	1065.2	1065.2	1065.2	1065.2	1065.2	1065.2	1065.2	1065.2	1065.2
2.5°	1241.8	1235.8	1244.9	1234.4	1216.4	1201.2	1181.5	1174.4	1142.7	1112.8	1083.8
5°	1392.6	1394.4	1391.6	1376.8	1351.4	1323.2	1283.3	1274.5	1219.2	1162.1	1100.4
7.5°	1430.0	1428.9	1434.9	1440.5	1436.3	1422.2	1378.9	1370.1	1301.3	1215.7	1125.8
10°	1314.7	1315.4	1327.8	1365.8	1413.1	1462.0	1455.4	1450.4	1383.1	1276.3	1154.0
12.5°	1151.9	1158.2	1171.3	1225.5	1305.6	1416.9	1486.0	1491.0	1458.2	1342.9	1187.1
15°	1081.4	1082.8	1093.4	1126.1	1185.7	1323.2	1473.0	1486.7	1520.9	1409.9	1223.1
17.5°	1079.6	1081.4	1086.0	1100.4	1139.2	1249.5	1431.0	1455.0	1568.1	1481.8	1266.1
20°	1145.9	1144.8	1141.7	1133.9	1150.8	1225.2	1392.3	1418.7	1593.9	1551.9	1309.4
22.5°	1266.1	1264.7	1250.6	1218.5	1204.7	1247.4	1373.2	1397.2	1609.4	1614.3	1345.0
25°	1404.6	1414.5	1388.0	1339.4	1305.6	1304.1	1390.1	1407.1	1622.8	1669.7	1369.4
27.5°	1556.5	1559.7	1537.1	1482.5	1433.5	1395.1	1439.1	1451.8	1637.6	1719.0	1383.1
30°	1723.2	1722.2	1696.4	1633.0	1573.4	1518.1	1521.6	1526.6	1672.1	1775.4	1398.3
32.5°	1931.5	1936.1	1890.3	1803.9	1732.4	1655.9	1629.5	1630.2	1734.5	1848.0	1421.2
35°	2214.6	2203.3	2142.7	2019.7	1897.7	1815.2	1770.1	1766.2	1830.7	1945.6	1461.0
37.5°	2484.2	2485.3	2421.8	2286.5	2132.4	2002.4	1938.6	1928.0	1966.1	2081.0	1527.3
40°	2671.4	2674.9	2648.5	2577.6	2414.4	2230.4	2136.7	2125.8	2141.6	2252.3	1614.0
42.5°	2770.4	2780.3	2787.7	2804.3	2680.5	2515.2	2371.1	2370.0	2353.4	2447.6	1714.4
45°	2774.3	2789.1	2834.2	2947.4	2961.5	2840.2	2683.4	2659.7	2595.9	2656.6	1804.3
47.5°	2621.0	2655.2	2751.0	2975.2	3123.2	3163.4	3008.0	2993.5	2814.5	2821.9	1871.6
50°	2263.6	2299.2	2475.8	2832.5	3164.1	3420.0	3364.3	3334.4	2997.1	2931.1	1904.0
52.5°	1897.0	1929.4	2049.3	2492.7	2994.6	3500.7	3664.6	3629.0	3161.0	2969.2	1890.7
55°	1320.0	1363.4	1480.4	1863.2	2604.1	3343.5	3764.0	3756.6	3307.2	2945.2	1869.9
57.5°	647.1	690.1	806.8	1148.7	1929.1	2919.2	3612.1	3651.2	3394.6	2919.5	1852.9
60°	270.3	288.0	328.2	504.0	1079.3	2206.1	3269.2	3323.4	3341.1	2884.6	1851.2
62.5°	156.8	159.7	163.9	209.0	419.8	1264.7	2711.9	2789.1	3059.4	2838.4	1823.3
65°	118.4	119.5	117.7	128.3	173.4	479.7	1959.4	2064.4	2553.7	2658.0	1713.4
67.5°	97.3	97.3	92.7	94.8	108.9	179.8	1081.7	1228.4	1889.6	2184.6	1414.8
70°	77.5	79.3	77.2	74.4	77.9	99.4	384.9	477.2	1100.4	1290.0	825.1
72.5°	58.9	58.9	62.4	60.3	57.8	62.4	134.3	150.9	441.6	537.9	297.8
75°	45.5	46.9	49.3	47.2	43.7	37.0	64.5	68.4	133.2	125.1	66.6
77.5°	23.3	23.6	31.4	34.5	32.4	22.6	28.2	31.0	43.4	38.8	24.7
80°	14.1	14.8	17.6	27.1	21.5	12.0	11.6	12.3	20.4	17.6	10.2
82.5°	6.0	6.3	9.9	9.9	8.8	4.6	4.6	4.6	9.9	9.2	4.2
85°	0.0	0.0	1.8	1.4	1.4	1.8	1.8	1.8	2.5	3.5	2.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.1	1.1
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°	1065.2	1065.2	1065.2	1065.2	1065.2	1065.2	1065.2	1065.2	1065.2	1065.2	1065.2
2.5°	1065.2	1042.6	1012.3	984.8	947.8	927.0	898.1	874.5	854.4	848.0	845.2
5°	1065.5	1026.7	961.9	897.0	817.4	754.6	690.1	639.0	597.1	583.7	580.2
7.5°	1072.6	1015.5	910.4	792.7	659.5	549.5	451.2	363.0	322.2	308.4	305.6
10°	1082.1	1006.0	850.9	667.6	476.2	334.8	237.2	180.8	154.0	139.2	141.3
12.5°	1094.4	998.2	785.0	532.2	315.1	184.0	130.4	109.3	103.6	100.8	99.4
15°	1111.0	989.0	703.2	397.9	193.2	118.4	100.5	94.8	92.7	91.3	90.9
17.5°	1127.9	978.5	620.0	279.9	128.3	98.3	90.2	87.4	86.0	84.9	84.6
20°	1145.9	960.5	522.4	192.8	101.2	88.5	83.2	80.0	78.2	76.5	76.1
22.5°	1153.6	931.6	429.0	135.0	89.9	81.4	74.7	70.8	68.7	67.3	67.3
25°	1146.2	884.7	332.4	102.6	81.8	73.7	67.0	62.7	61.0	59.6	59.6
27.5°	1126.5	824.4	242.5	84.9	73.0	65.6	59.2	55.3	53.9	53.2	53.2
30°	1104.6	748.3	170.9	73.0	63.1	57.1	51.8	49.3	49.0	48.3	48.3
32.5°	1086.0	677.1	117.7	64.1	55.7	49.7	46.2	45.1	45.5	44.8	45.1
35°	1075.7	607.3	87.4	57.1	49.7	44.1	42.3	42.3	42.3	41.9	41.9
37.5°	1080.0	538.6	71.2	52.2	44.4	40.2	38.4	39.1	39.8	39.8	39.8
40°	1101.1	477.6	63.1	47.6	39.8	36.7	35.2	36.3	37.4	38.1	38.1
42.5°	1127.9	428.3	57.1	43.7	36.7	33.1	32.4	33.5	34.5	35.2	35.2
45°	1144.8	378.6	51.1	38.8	33.5	29.3	29.3	30.7	30.3	30.7	30.7
47.5°	1152.6	339.1	45.1	33.5	28.6	25.4	25.7	26.4	25.7	26.4	26.4
50°	1133.5	299.2	39.8	27.8	23.6	22.2	22.9	22.6	22.6	24.0	24.0
52.5°	1098.7	269.6	35.2	23.6	20.1	19.7	20.4	19.0	19.4	19.4	19.0
55°	1072.9	252.7	31.4	20.4	17.3	17.6	17.3	14.8	13.4	12.0	11.6
57.5°	1060.2	246.0	28.6	18.3	15.5	15.5	14.1	10.2	7.8	6.0	5.3
60°	1057.4	237.9	25.7	15.9	13.7	13.0	10.2	6.0	3.9	2.8	2.5
62.5°	1030.6	218.2	23.3	12.7	12.0	10.6	6.3	3.5	2.1	1.4	1.1
65°	942.9	179.4	20.8	9.9	9.2	7.8	3.9	2.1	1.1	0.4	0.0
67.5°	750.1	127.2	18.3	7.4	6.3	4.9	2.5	1.4	0.4	0.0	0.0
70°	432.5	68.7	15.2	5.3	4.2	3.2	1.8	0.7	0.0	0.0	0.0
72.5°	144.5	32.1	11.6	3.5	3.2	2.5	1.1	0.4	0.0	0.0	0.0
75°	31.7	19.0	7.8	2.5	2.1	1.8	0.7	0.0	0.0	0.0	0.0
77.5°	12.0	13.4	3.9	1.8	1.4	1.1	0.4	0.0	0.0	0.0	0.0
80°	4.6	8.8	1.8	1.1	1.1	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	2.5	3.5	1.1	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.4	1.8	0.7	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	0.4	0.4	0.4	0.0	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)