

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: P637337

Luminaire Tested: GWS-SA4C-750-U-T2R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637337  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4C-750-U-T2R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

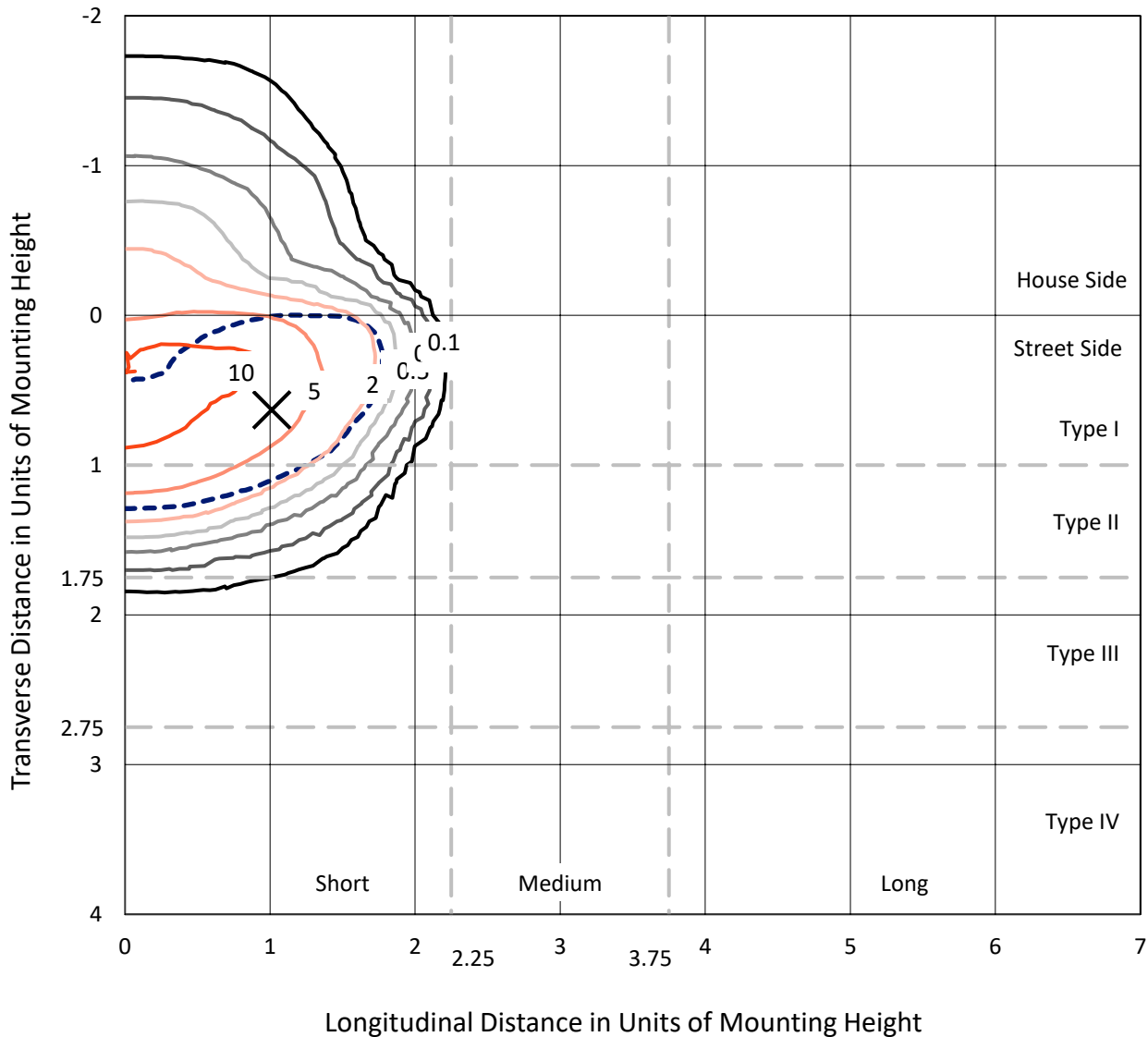
Lumens per Lamp: N/A  
Luminaire Lumens: 13310.7 lumens  
Efficiency: N/A  
Efficacy: 103.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

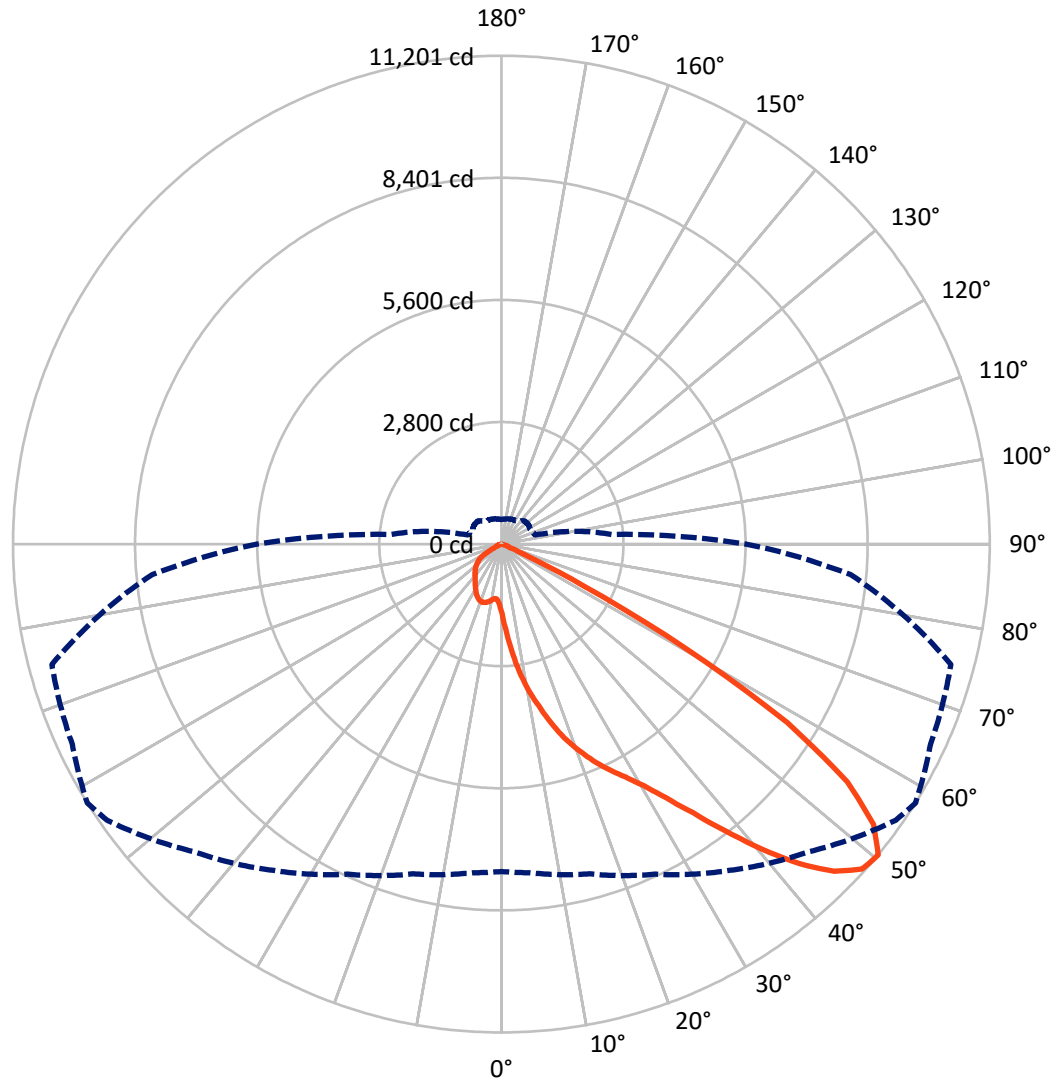
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1864.3	0.0	1864.3
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	11446.4	0.0	11446.4
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	13310.7	0.0	13310.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	197.0	1.5
10°-20°	779.7	5.9
20°-30°	1577.8	11.9
30°-40°	2791.4	21.0
40°-50°	4069.2	30.6
50°-60°	3261.6	24.5
60°-70°	587.6	4.4
70°-80°	46.3	0.3
80°-90°	0.0	0.0
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°	13310.7	100.0
0°-180°	13310.7	100.0

**Coefficient of Utilization**



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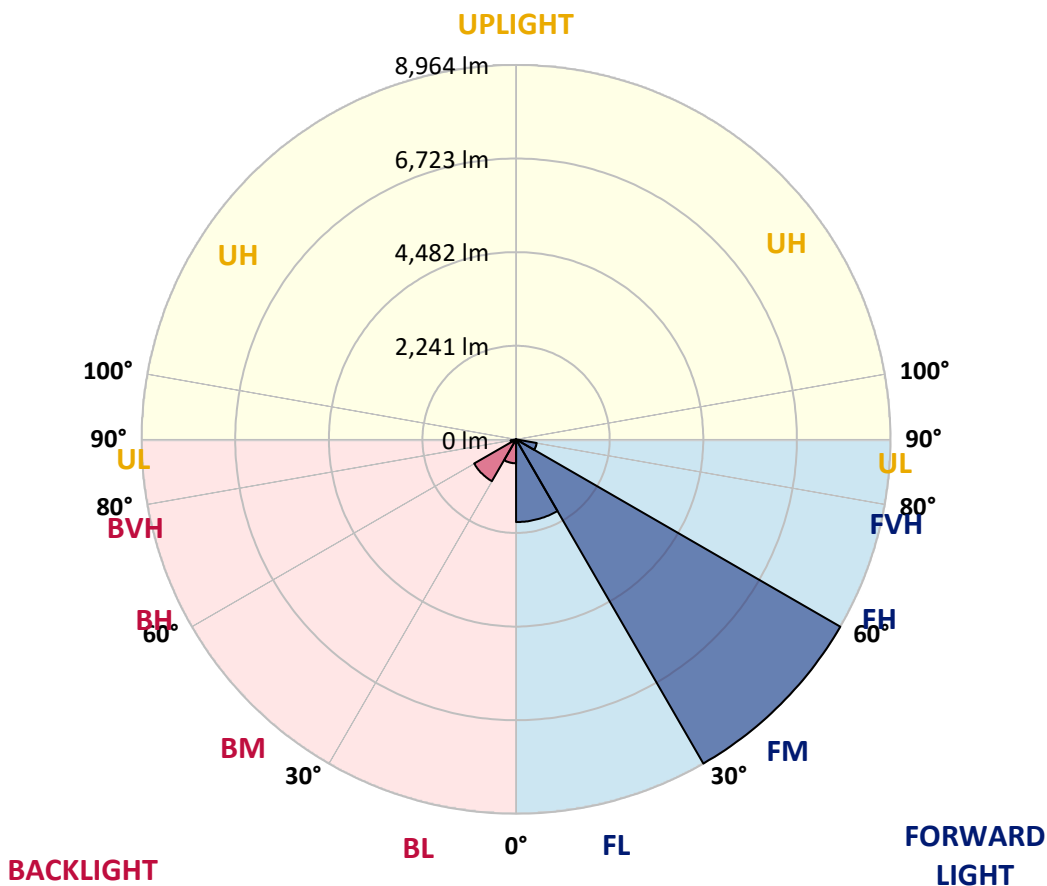
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1980.6	14.9			
FM (30°-60°)	8964.4	67.3			
FH (60°-80°)	501.4	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	574.0	4.3	B2/1000		
BM (30°-60°)	1157.8	8.7	B2/2500		
BH (60°-80°)	132.5	1.0	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1589.9	1589.9	1589.9	1589.9	1589.9	1589.9	1589.9	1589.9	1589.9	1589.9	1589.9
2.5°	2352.9	2315.9	2294.5	2277.4	2202.0	2082.4	2004.2	1962.9	1894.5	1779.3	1679.6
5°	3070.3	3043.2	2993.4	2959.3	2862.5	2693.1	2518.0	2448.3	2293.1	2032.6	1799.2
7.5°	3545.7	3525.8	3507.3	3461.7	3370.6	3216.9	3023.3	2950.7	2711.6	2341.5	1958.6
10°	3911.5	3895.9	3874.5	3873.1	3801.9	3663.8	3474.5	3399.1	3140.0	2677.4	2146.5
12.5°	4233.2	4220.4	4216.1	4256.0	4210.4	4107.9	3903.0	3809.0	3534.3	3020.5	2354.3
15°	4453.8	4451.0	4469.5	4547.8	4573.4	4526.4	4354.2	4253.1	3937.1	3364.9	2583.5
17.5°	4554.9	4563.4	4599.0	4734.2	4848.1	4888.0	4755.6	4670.2	4337.1	3713.7	2828.3
20°	4727.1	4724.3	4745.6	4873.7	5013.2	5155.6	5115.7	5043.1	4741.4	4082.3	3100.2
22.5°	5212.5	5171.2	5125.7	5145.6	5195.4	5362.0	5436.0	5399.0	5158.4	4460.9	3380.6
25°	5958.4	5915.7	5769.0	5626.7	5532.8	5608.2	5709.3	5727.8	5572.6	4849.5	3673.8
27.5°	6749.8	6711.3	6546.2	6332.7	6063.7	5932.7	6008.2	6045.2	5979.7	5312.1	3985.5
30°	7491.4	7440.1	7259.4	6994.6	6682.9	6482.2	6396.8	6422.4	6460.8	5860.1	4351.3
32.5°	8134.7	8096.3	7880.0	7601.0	7300.6	7091.4	6892.1	6934.8	7028.8	6530.6	4819.6
35°	8679.9	8660.0	8430.8	8153.2	7835.8	7729.1	7558.3	7566.8	7660.8	7340.5	5390.4
37.5°	9153.9	9119.7	8911.9	8654.3	8402.3	8385.3	8338.3	8342.6	8391.0	8284.2	6046.6
40°	9452.8	9421.5	9273.5	9114.0	8934.7	8937.5	9180.9	9199.4	9143.9	9210.8	6739.8
42.5°	9565.3	9542.5	9462.8	9464.2	9445.7	9529.7	9986.6	10020.8	9821.5	9938.2	7331.9
45°	9370.3	9360.3	9366.0	9571.0	9793.0	10052.1	10645.6	10705.4	10423.6	10420.7	7794.6
47.5°	8741.1	8721.2	8887.7	9236.5	9750.3	10254.2	11044.2	11136.7	10844.9	10696.9	8084.9
50°	7508.4	7565.4	7828.7	8352.5	9134.0	9976.6	11039.9	11200.8	10860.6	10672.7	8036.5
52.5°	5438.8	5427.4	6003.9	6724.2	7675.0	9088.4	10453.5	10688.3	10480.5	10435.0	7928.4
55°	2959.3	3063.2	3451.8	4405.4	5592.5	7407.4	9114.0	9626.5	9867.0	10348.1	8123.4
57.5°	1087.5	1133.0	1376.4	2051.1	2960.7	4606.1	6961.9	7734.8	8477.8	10106.2	8090.6
60°	438.4	446.9	543.7	754.4	1244.1	2344.3	4176.3	4862.3	5562.7	7736.2	6208.9
62.5°	318.8	330.2	368.7	441.3	629.1	1024.8	1800.6	2093.8	2288.8	3831.8	3058.9
65°	257.6	266.2	297.5	330.2	415.6	550.9	580.7	559.4	556.6	990.7	701.7
67.5°	213.5	222.1	244.8	267.6	298.9	274.7	199.3	209.2	170.8	169.4	138.1
70°	156.6	166.5	189.3	213.5	179.3	74.0	115.3	170.8	129.5	108.2	105.3
72.5°	118.1	125.3	146.6	139.5	52.7	28.5	76.9	123.8	99.6	79.7	78.3
75°	88.3	92.5	74.0	22.8	5.7	7.1	28.5	51.2	55.5	45.5	45.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.8	4.3	5.7	7.1	8.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1589.9	1589.9	1589.9	1589.9	1589.9	1589.9	1589.9	1589.9	1589.9	1589.9	1589.9
2.5°	1622.7	1562.9	1477.5	1406.3	1352.2	1299.6	1259.7	1219.9	1218.4	1198.5	1194.2
5°	1691.0	1582.8	1426.2	1313.8	1245.5	1204.2	1175.7	1161.5	1154.4	1147.3	1144.4
7.5°	1789.2	1634.1	1417.7	1298.1	1241.2	1214.2	1194.2	1185.7	1181.4	1175.7	1174.3
10°	1910.2	1708.1	1449.0	1328.0	1278.2	1252.6	1231.2	1218.4	1211.3	1201.4	1198.5
12.5°	2055.4	1799.2	1498.8	1377.9	1325.2	1291.0	1262.6	1244.1	1234.1	1221.3	1218.4
15°	2212.0	1897.4	1554.4	1423.4	1360.8	1316.6	1281.1	1252.6	1234.1	1218.4	1214.2
17.5°	2374.2	1997.0	1604.2	1454.7	1377.9	1325.2	1273.9	1235.5	1212.7	1192.8	1187.1
20°	2556.4	2099.5	1636.9	1460.4	1372.2	1302.4	1242.6	1194.2	1171.5	1144.4	1138.7
22.5°	2747.2	2194.9	1651.1	1447.6	1340.8	1259.7	1195.7	1145.8	1113.1	1084.6	1076.1
25°	2932.2	2280.3	1644.0	1412.0	1293.9	1199.9	1134.5	1083.2	1047.6	1019.2	1012.0
27.5°	3128.6	2351.5	1618.4	1359.3	1229.8	1134.5	1071.8	1027.7	995.0	963.6	956.5
30°	3349.3	2416.9	1577.1	1295.3	1154.4	1067.6	1019.2	989.3	953.7	920.9	911.0
32.5°	3615.4	2475.3	1517.3	1218.4	1087.5	1009.2	982.1	959.4	918.1	883.9	876.8
35°	3920.0	2523.7	1441.9	1138.7	1022.0	972.2	966.5	936.6	882.5	842.7	834.1
37.5°	4273.1	2570.7	1352.2	1060.4	973.6	955.1	956.5	905.3	839.8	791.4	785.7
40°	4653.1	2617.6	1252.6	992.1	929.5	945.1	932.3	859.7	753.0	706.0	700.3
42.5°	5048.8	2668.9	1151.5	928.1	892.5	906.7	888.2	768.6	691.8	667.6	664.7
45°	5406.1	2730.1	1041.9	864.0	855.5	851.2	819.9	696.0	663.3	646.2	644.8
47.5°	5663.7	2720.1	925.2	802.8	815.6	801.4	706.0	661.9	634.8	612.1	606.4
50°	5616.7	2546.5	804.2	734.5	764.4	751.6	634.8	622.0	597.8	573.6	565.1
52.5°	5497.2	2310.2	698.9	661.9	708.9	679.0	586.4	573.6	552.3	521.0	511.0
55°	5561.2	2088.1	616.3	603.5	651.9	562.2	532.4	512.4	489.7	455.5	451.2
57.5°	5354.8	1703.8	495.3	503.9	576.5	479.7	466.9	435.6	397.1	374.4	371.5
60°	3706.5	915.2	310.3	320.3	417.1	402.8	418.5	390.0	343.0	321.7	317.4
62.5°	1702.4	367.2	169.4	162.3	219.2	273.3	358.7	355.9	297.5	263.3	260.5
65°	412.8	168.0	121.0	113.9	123.8	163.7	233.4	280.4	240.6	200.7	196.4
67.5°	133.8	136.6	111.0	103.9	109.6	122.4	139.5	155.2	153.7	140.9	138.1
70°	106.8	123.8	102.5	93.9	93.9	98.2	93.9	75.4	65.5	71.2	74.0
72.5°	79.7	93.9	81.1	72.6	69.7	68.3	58.4	42.7	29.9	27.0	25.6
75°	47.0	52.7	49.8	42.7	39.9	35.6	28.5	18.5	10.0	7.1	4.3
77.5°	8.5	10.0	11.4	8.5	7.1	5.7	4.3	1.4	0.0	0.0	0.0
80°	0.0	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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)