

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: P636848

Luminaire Tested: GWS-SA4B-750-U-T3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636848  
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-SA4B-750-U-T3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

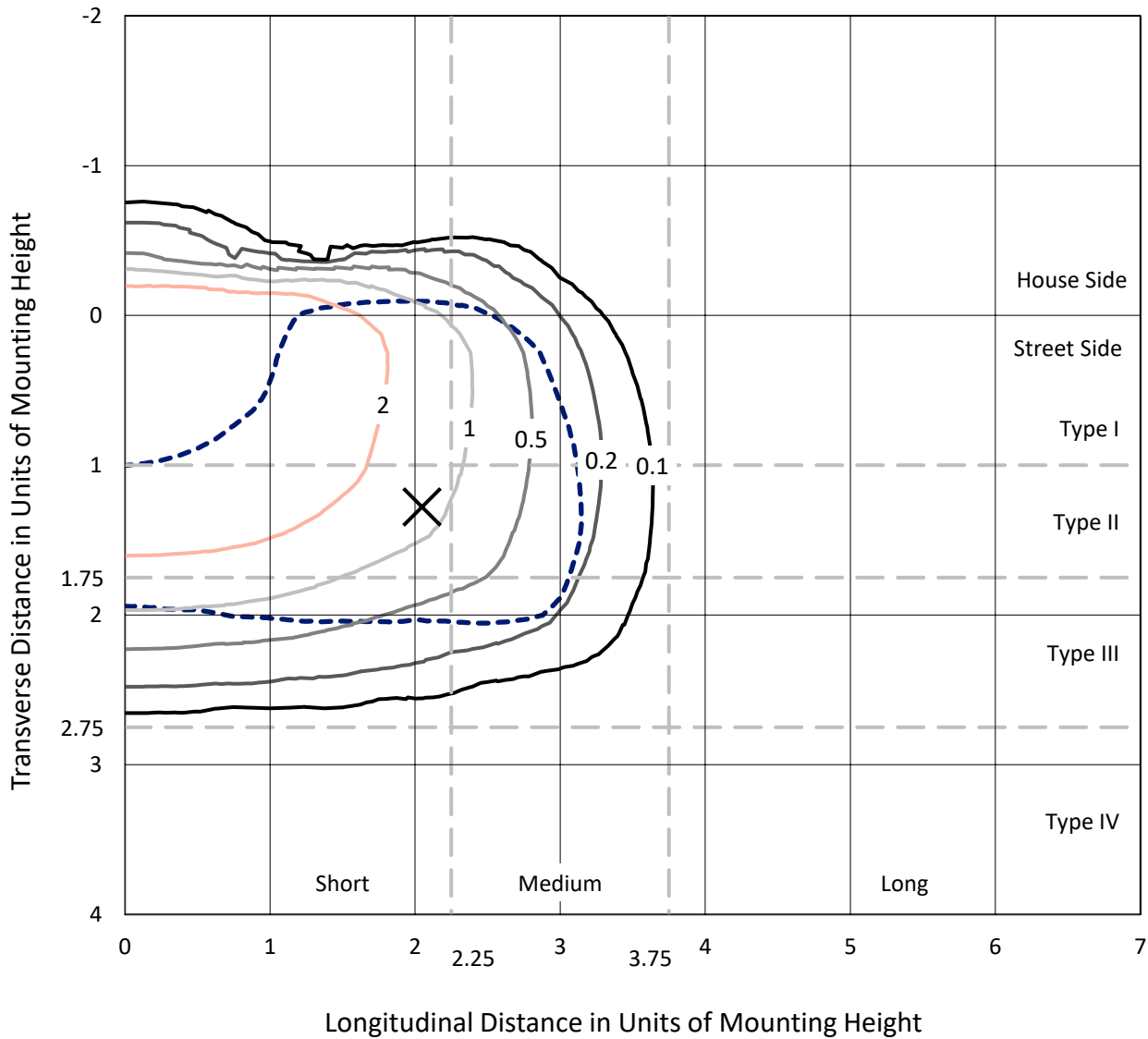
Lumens per Lamp: N/A  
Luminaire Lumens: 10869.8 lumens  
Efficiency: N/A  
Efficacy: 115.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

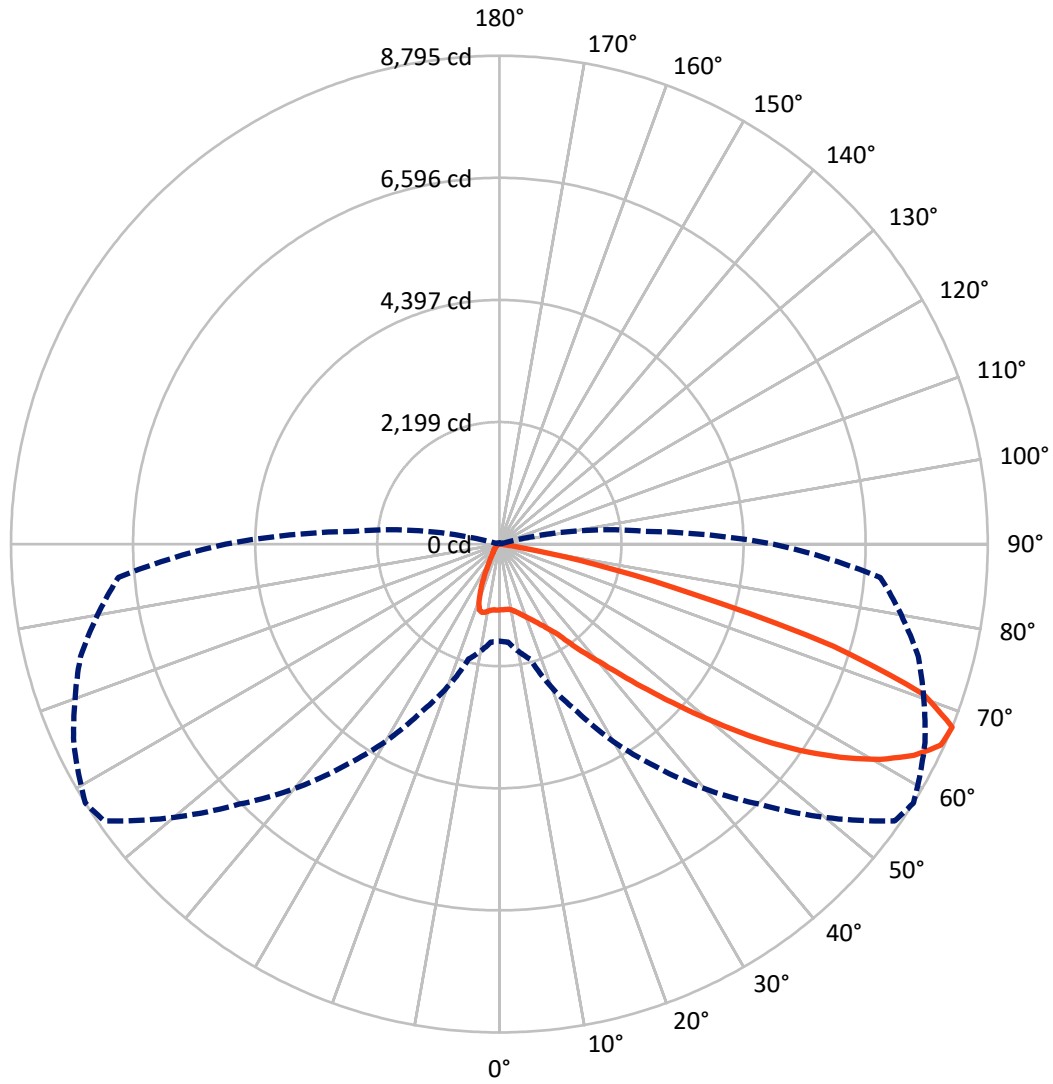
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1185.9	0.0	1185.9
	% Fixture	10.9	0.0	10.9
<b>Street Side</b>	Lumens	9683.9	0.0	9683.9
	% Fixture	89.1	0.0	89.1
<b>Total</b>	Lumens	10869.8	0.0	10869.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.3	1.0
10°-20°	312.4	2.9
20°-30°	545.3	5.0
30°-40°	973.9	9.0
40°-50°	1780.0	16.4
50°-60°	2960.4	27.2
60°-70°	3215.5	29.6
70°-80°	944.1	8.7
80°-90°	26.9	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°	10869.8	100.0
0°-180°	10869.8	100.0

**Coefficient of Utilization**



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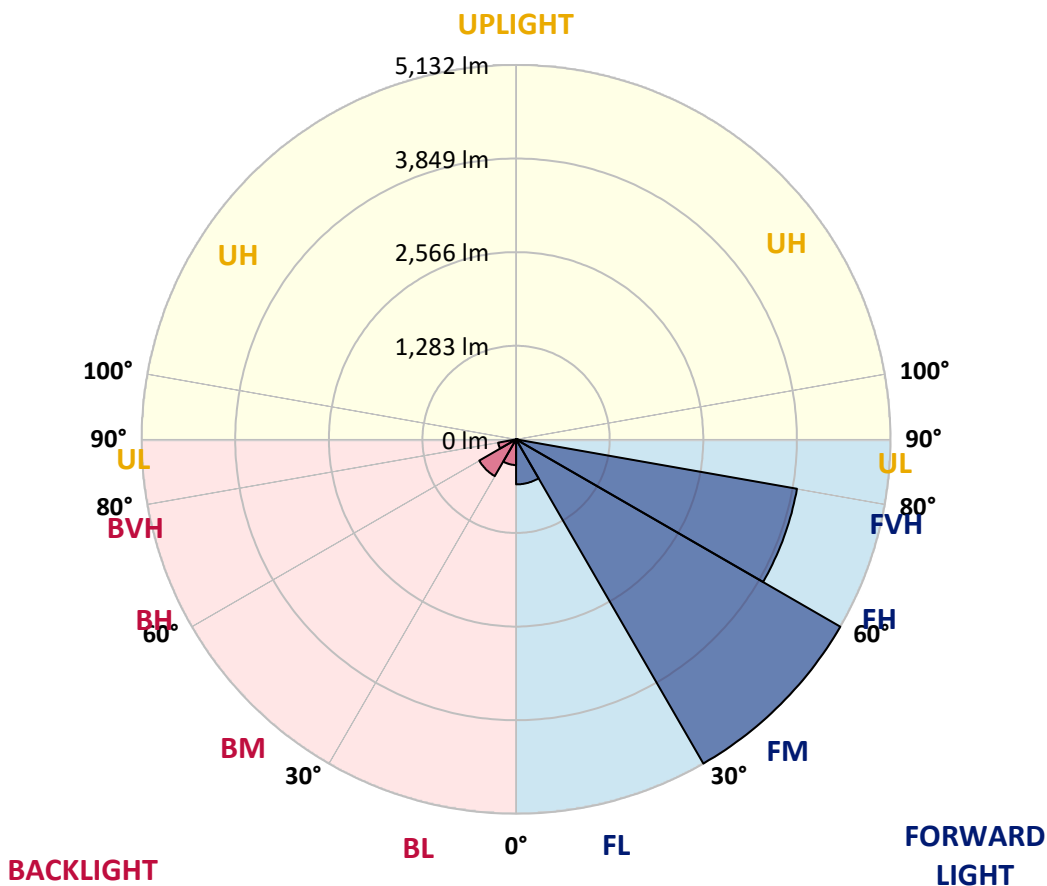
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	617.2	5.7			
FM (30°-60°)	5131.9	47.2			
FH (60°-80°)	3909.3	36.0			G2/5000
FVH (80°-90°)	25.6	0.2			G1/100
BL (0°-30°)	351.8	3.2	B1/500		
BM (30°-60°)	582.5	5.4	B1/1000		
BH (60°-80°)	250.3	2.3	B1/500		G1/500
BVH (80°-90°)	1.3	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°	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5
2.5°	1162.2	1160.1	1160.1	1168.6	1169.6	1173.9	1183.4	1184.5	1189.8	1187.7	1180.2
5°	1101.7	1102.8	1109.1	1124.0	1136.7	1152.6	1176.0	1181.3	1193.0	1199.3	1195.1
7.5°	1045.4	1046.5	1056.1	1079.4	1103.8	1135.7	1173.9	1184.5	1207.8	1224.8	1225.9
10°	1024.2	1023.2	1032.7	1059.2	1091.1	1135.7	1190.9	1204.6	1239.7	1269.4	1274.7
12.5°	1030.6	1029.5	1039.1	1063.5	1098.5	1154.8	1220.6	1239.7	1284.3	1329.9	1339.4
15°	1056.1	1055.0	1061.4	1081.5	1119.7	1178.1	1258.8	1287.4	1343.7	1398.9	1413.7
17.5°	1132.5	1127.2	1120.8	1122.9	1145.2	1205.7	1307.6	1342.6	1412.7	1478.5	1491.2
20°	1268.3	1254.5	1237.6	1215.3	1204.6	1246.0	1363.9	1404.2	1489.1	1564.5	1566.6
22.5°	1473.2	1467.9	1428.6	1363.9	1318.2	1319.3	1429.7	1476.4	1580.4	1663.2	1651.5
25°	1758.7	1755.5	1695.0	1588.9	1470.0	1429.7	1513.5	1561.3	1688.6	1776.7	1739.6
27.5°	2113.2	2090.9	2019.8	1876.5	1699.2	1572.9	1619.6	1662.1	1803.3	1886.0	1816.0
30°	2422.0	2423.1	2356.2	2206.6	2007.0	1788.4	1749.1	1786.3	1908.3	1995.4	1910.5
32.5°	2719.2	2728.8	2655.5	2520.7	2302.1	2069.7	1934.9	1941.2	2043.1	2137.6	2034.6
35°	2995.2	3002.6	2951.7	2837.0	2633.2	2363.7	2193.8	2190.7	2245.8	2342.4	2207.6
37.5°	3304.0	3311.5	3261.6	3158.6	2967.6	2700.1	2487.8	2483.6	2505.9	2584.4	2430.5
40°	3633.1	3646.9	3591.7	3504.6	3322.1	3096.0	2829.6	2791.4	2769.1	2861.4	2719.2
42.5°	3966.3	3987.5	3968.4	3881.4	3725.4	3538.6	3273.2	3213.8	3166.1	3281.7	3131.0
45°	4380.3	4405.7	4397.2	4330.4	4209.4	4057.6	3807.1	3738.1	3715.8	3823.0	3643.7
47.5°	4778.3	4805.9	4836.6	4821.8	4735.8	4665.8	4387.7	4348.4	4342.0	4456.7	4178.6
50°	5074.4	5099.9	5217.7	5302.6	5361.0	5346.1	5105.2	5046.8	5037.2	5110.5	4743.2
52.5°	5286.7	5311.1	5473.5	5738.8	5953.2	6069.9	5826.9	5814.2	5762.2	5736.7	5271.8
55°	5451.2	5485.1	5656.0	6057.2	6489.2	6748.2	6596.4	6550.7	6417.0	6270.5	5762.2
57.5°	5484.1	5497.9	5738.8	6280.1	6905.2	7324.5	7324.5	7244.9	6987.0	6784.2	6328.9
60°	5189.0	5231.5	5557.3	6262.1	7083.6	7701.3	7928.4	7873.2	7525.1	7275.7	6874.5
62.5°	4534.2	4581.9	4978.9	5830.1	6905.2	7778.7	8385.8	8377.4	7984.6	7682.2	7326.6
65°	3477.0	3512.1	3858.1	4877.0	6151.7	7480.5	8712.7	8736.1	8347.6	7950.7	7482.6
67.5°	1747.0	1771.4	2145.0	3331.6	4875.9	6621.9	8690.5	8794.5	8458.0	7808.5	6887.2
70°	610.3	634.7	810.9	1429.7	2967.6	5056.3	7939.0	8108.8	7809.5	6665.4	5080.8
72.5°	209.1	220.8	336.5	530.7	1154.8	2997.3	6037.0	6292.8	5756.8	4474.7	2919.8
75°	118.9	126.3	180.4	287.6	484.0	986.0	3425.0	3582.1	3356.0	2439.0	1201.5
77.5°	80.7	87.0	112.5	163.5	267.5	317.3	1396.8	1758.7	1533.7	796.0	306.7
80°	47.8	52.0	69.0	96.6	136.9	123.1	299.3	398.0	512.6	237.7	92.3
82.5°	22.3	25.5	44.6	63.7	69.0	52.0	88.1	107.2	144.3	116.8	38.2
85°	0.0	0.0	14.9	26.5	25.5	14.9	24.4	26.5	39.3	58.4	14.9
87.5°	0.0	0.0	0.0	0.0	0.0	1.1	2.1	3.2	6.4	11.7	6.4
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°	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5	1184.5
2.5°	1188.7	1181.3	1189.8	1185.5	1189.8	1188.7	1180.2	1174.9	1174.9	1165.4	1162.2
5°	1203.6	1196.2	1198.3	1188.7	1186.6	1181.3	1170.7	1166.4	1166.4	1156.9	1153.7
7.5°	1236.5	1224.8	1222.7	1203.6	1195.1	1180.2	1161.1	1153.7	1152.6	1143.1	1139.9
10°	1288.5	1274.7	1265.1	1240.7	1216.3	1186.6	1146.3	1112.3	1093.2	1067.7	1065.6
12.5°	1352.2	1335.2	1320.3	1283.2	1242.9	1176.0	1057.1	932.9	856.5	796.0	800.3
15°	1423.3	1407.4	1384.0	1327.8	1245.0	1070.9	822.6	631.5	538.1	488.2	486.1
17.5°	1500.8	1477.4	1439.2	1362.8	1178.1	818.3	534.9	377.8	329.0	312.0	307.8
20°	1572.9	1544.3	1496.5	1370.2	984.9	554.0	334.3	292.9	284.4	279.1	279.1
22.5°	1649.4	1613.3	1542.2	1312.9	732.3	354.5	284.4	274.9	268.5	261.1	260.0
25°	1726.8	1680.1	1583.6	1163.3	479.7	279.1	266.4	255.8	244.1	232.4	229.3
27.5°	1792.6	1732.1	1615.4	940.4	307.8	251.5	243.1	225.0	209.1	196.4	194.2
30°	1871.2	1793.7	1629.2	687.8	242.0	221.8	209.1	190.0	170.9	158.1	153.9
32.5°	1976.3	1891.4	1608.0	447.9	214.4	195.3	175.1	152.8	133.7	119.9	117.8
35°	2139.7	2038.9	1510.3	285.5	194.2	168.8	144.3	121.0	105.1	94.5	92.3
37.5°	2339.2	2245.8	1350.1	214.4	174.1	146.5	117.8	95.5	83.8	76.4	74.3
40°	2635.4	2504.8	1151.6	187.9	153.9	124.2	96.6	78.5	70.1	63.7	61.6
42.5°	3019.6	2810.5	923.4	170.9	134.8	104.0	78.5	64.7	57.3	53.1	52.0
45°	3468.5	3108.7	682.5	153.9	116.8	86.0	64.7	53.1	47.8	44.6	43.5
47.5°	3928.1	3369.8	471.2	135.9	99.8	71.1	54.1	45.6	41.4	37.1	36.1
50°	4418.5	3590.6	321.6	117.8	84.9	58.4	46.7	41.4	36.1	32.9	31.8
52.5°	4778.3	3672.3	223.9	101.9	72.2	49.9	41.4	37.1	32.9	28.7	27.6
55°	5110.5	3670.2	169.8	86.0	61.6	43.5	37.1	32.9	28.7	25.5	24.4
57.5°	5441.6	3641.5	133.7	73.2	53.1	39.3	32.9	28.7	26.5	22.3	21.2
60°	5656.0	3533.3	104.0	61.6	45.6	34.0	28.7	25.5	22.3	19.1	18.0
62.5°	5769.6	3382.6	79.6	48.8	37.1	29.7	25.5	22.3	19.1	15.9	14.9
65°	5615.7	3115.1	62.6	38.2	28.7	25.5	21.2	18.0	14.9	11.7	10.6
67.5°	4933.2	2626.9	48.8	30.8	22.3	19.1	18.0	14.9	10.6	8.5	7.4
70°	3486.6	1799.0	38.2	23.4	17.0	14.9	13.8	11.7	8.5	6.4	5.3
72.5°	1913.6	907.5	27.6	17.0	12.7	11.7	10.6	9.6	7.4	5.3	5.3
75°	736.6	249.4	20.2	11.7	8.5	8.5	7.4	7.4	6.4	4.2	4.2
77.5°	192.1	74.3	12.7	7.4	5.3	5.3	5.3	4.2	4.2	3.2	3.2
80°	61.6	24.4	7.4	5.3	4.2	3.2	3.2	2.1	3.2	2.1	2.1
82.5°	20.2	8.5	4.2	4.2	3.2	2.1	2.1	1.1	1.1	0.0	0.0
85°	7.4	4.2	3.2	2.1	2.1	2.1	1.1	0.0	0.0	0.0	0.0
87.5°	4.2	2.1	2.1	2.1	2.1	1.1	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)