

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: P633273

Luminaire Tested: GWS-SA2E-735-U-T3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633273  
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-SA2E-735-U-T3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

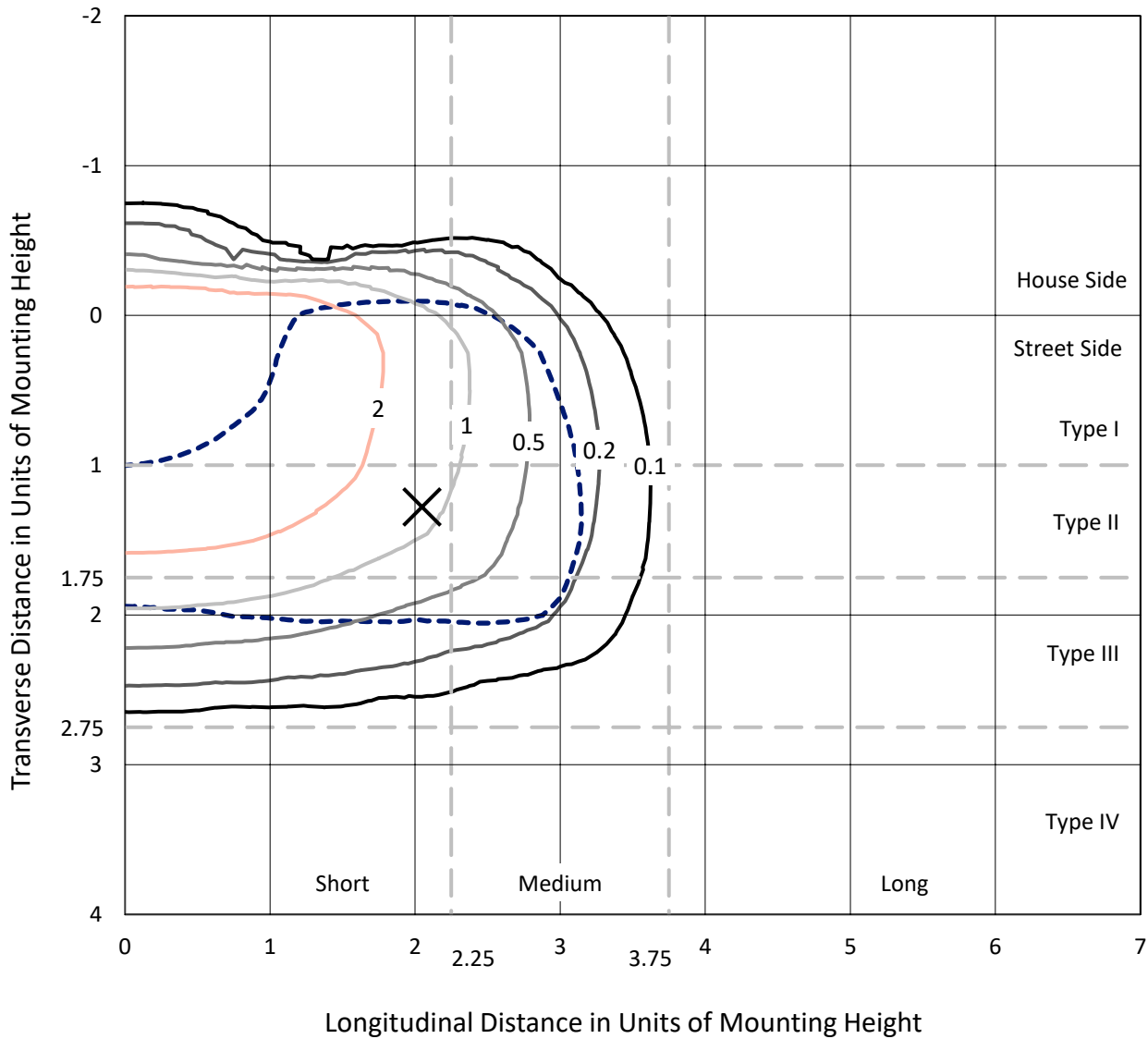
Lumens per Lamp: N/A  
Luminaire Lumens: 10565.2 lumens  
Efficiency: N/A  
Efficacy: 97.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): 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

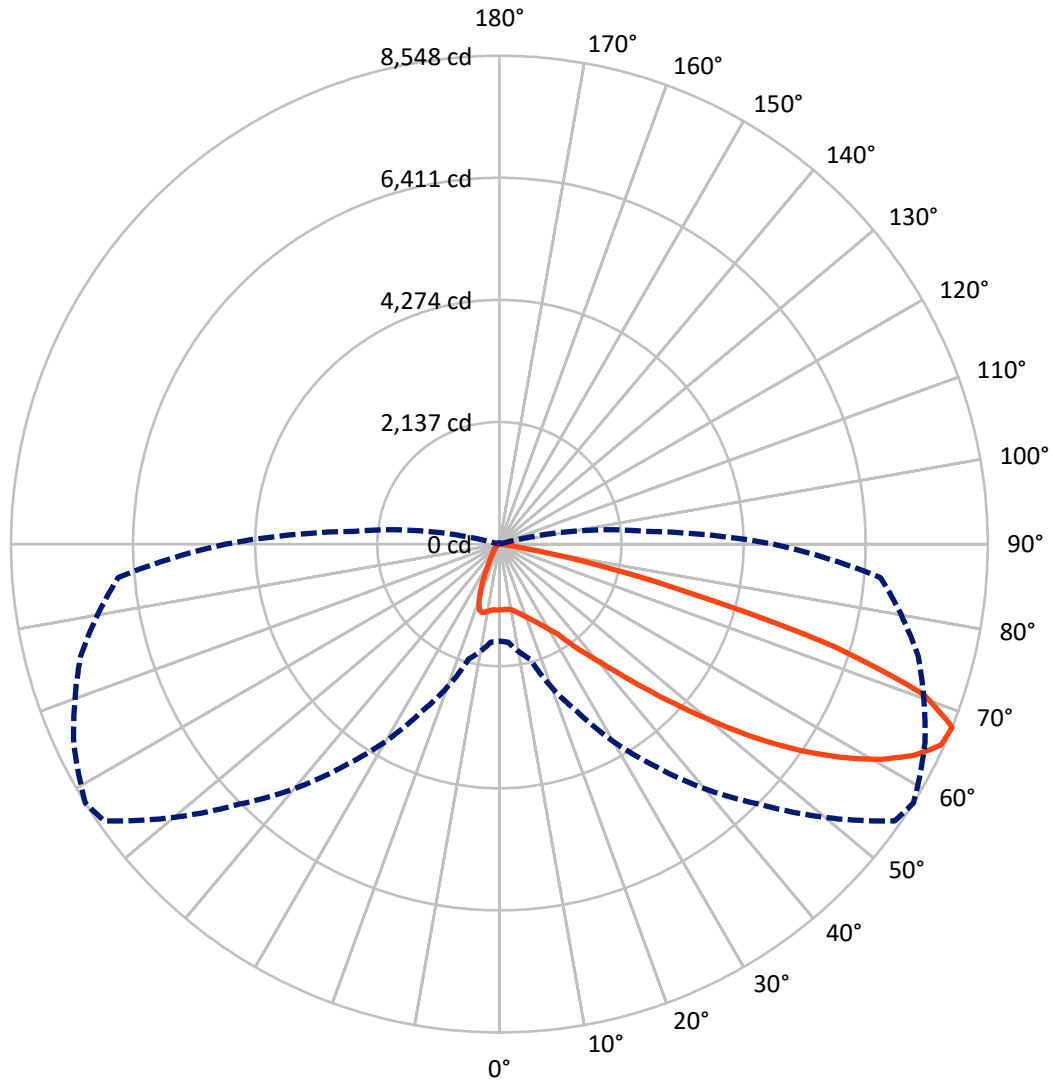
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4 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	1152.6	0.0	1152.6
	% Fixture	10.9	0.0	10.9
<b>Street Side</b>	Lumens	9412.6	0.0	9412.6
	% Fixture	89.1	0.0	89.1
<b>Total</b>	Lumens	10565.2	0.0	10565.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.1	1.0
10°-20°	303.7	2.9
20°-30°	530.0	5.0
30°-40°	946.6	9.0
40°-50°	1730.2	16.4
50°-60°	2877.5	27.2
60°-70°	3125.4	29.6
70°-80°	917.6	8.7
80°-90°	26.1	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°	10565.2	100.0
0°-180°	10565.2	100.0

**Coefficient of Utilization**



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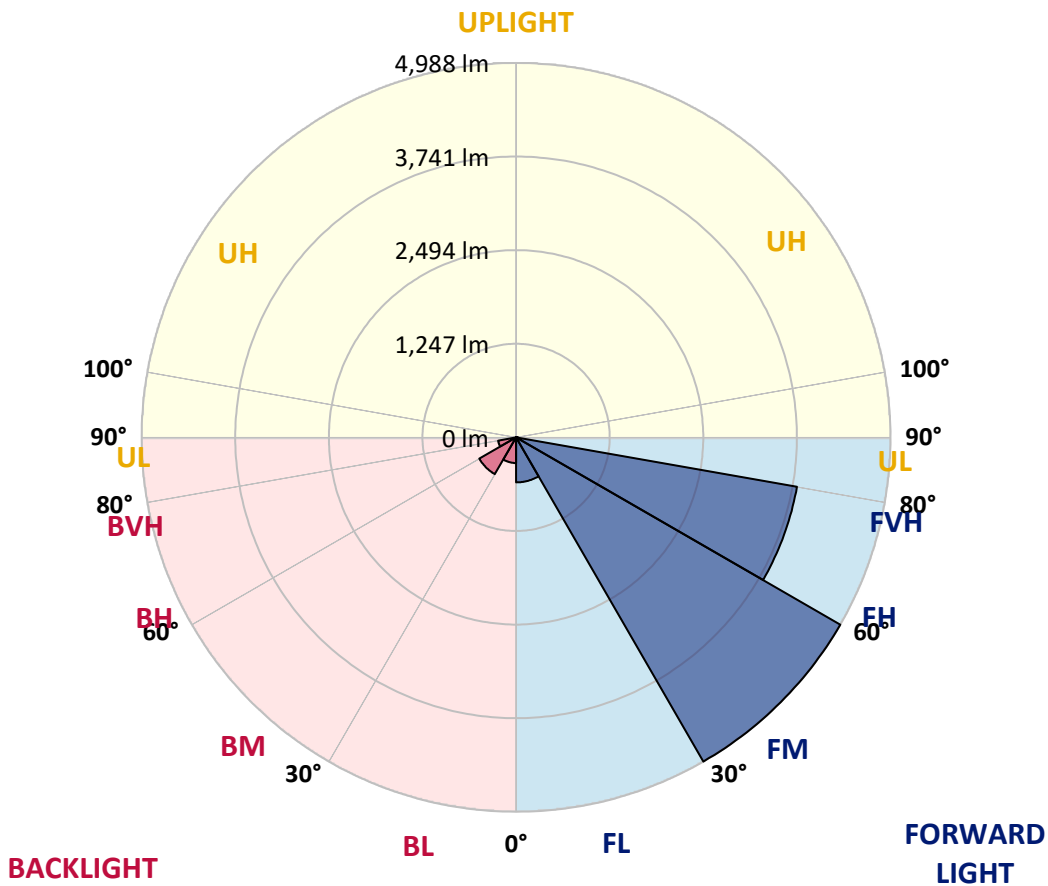
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	599.9	5.7			
FM (30°-60°)	4988.0	47.2			
FH (60°-80°)	3799.7	36.0			G2/5000
FVH (80°-90°)	24.8	0.2			G1/100
BL (0°-30°)	341.9	3.2	B1/500		
BM (30°-60°)	566.1	5.4	B1/1000		
BH (60°-80°)	243.3	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°	1151.3	1151.3	1151.3	1151.3	1151.3	1151.3	1151.3	1151.3	1151.3	1151.3	1151.3
2.5°	1129.6	1127.6	1127.6	1135.8	1136.8	1141.0	1150.3	1151.3	1156.4	1154.4	1147.2
5°	1070.8	1071.9	1078.0	1092.5	1104.9	1120.3	1143.0	1148.2	1159.5	1165.7	1161.6
7.5°	1016.1	1017.2	1026.5	1049.2	1072.9	1103.8	1141.0	1151.3	1174.0	1190.5	1191.5
10°	995.5	994.5	1003.8	1029.6	1060.5	1103.8	1157.5	1170.9	1204.9	1233.8	1239.0
12.5°	1001.7	1000.7	1010.0	1033.7	1067.7	1122.4	1186.4	1204.9	1248.3	1292.6	1301.9
15°	1026.5	1025.4	1031.6	1051.2	1088.4	1145.1	1223.5	1251.4	1306.0	1359.7	1374.1
17.5°	1100.7	1095.6	1089.4	1091.5	1113.1	1171.9	1271.0	1305.0	1373.1	1437.1	1449.4
20°	1232.8	1219.4	1202.9	1181.2	1170.9	1211.1	1325.6	1364.8	1447.4	1520.6	1522.7
22.5°	1431.9	1426.7	1388.6	1325.6	1281.3	1282.3	1389.6	1435.0	1536.1	1616.6	1605.2
25°	1709.4	1706.3	1647.5	1544.3	1428.8	1389.6	1471.1	1517.5	1641.3	1726.9	1690.8
27.5°	2054.0	2032.3	1963.2	1823.9	1651.6	1528.9	1574.3	1615.5	1752.7	1833.2	1765.1
30°	2354.2	2355.2	2290.2	2144.7	1950.8	1738.3	1700.1	1736.2	1854.9	1939.5	1856.9
32.5°	2643.0	2652.3	2581.1	2450.1	2237.6	2011.7	1880.6	1886.8	1985.9	2077.7	1977.6
35°	2911.2	2918.5	2868.9	2757.5	2559.5	2297.4	2132.4	2129.3	2182.9	2276.8	2145.8
37.5°	3211.4	3218.7	3170.2	3070.1	2884.4	2624.4	2418.1	2414.0	2435.7	2512.0	2362.4
40°	3531.2	3544.7	3491.0	3406.4	3229.0	3009.2	2750.3	2713.2	2691.5	2781.3	2643.0
42.5°	3855.2	3875.8	3857.2	3772.6	3621.0	3439.4	3181.5	3123.8	3077.3	3189.8	3043.3
45°	4257.5	4282.3	4274.0	4209.0	4091.4	3943.9	3700.4	3633.4	3611.7	3715.9	3541.6
47.5°	4644.4	4671.2	4701.1	4686.7	4603.1	4535.0	4264.7	4226.6	4220.4	4331.8	4061.5
50°	4932.2	4956.9	5071.5	5154.0	5210.7	5196.3	4962.1	4905.4	4896.1	4967.3	4610.3
52.5°	5138.5	5162.2	5320.1	5578.0	5786.4	5899.9	5663.6	5651.2	5600.7	5575.9	5124.1
55°	5298.4	5331.4	5497.5	5887.5	6307.3	6559.1	6411.5	6367.2	6237.2	6094.8	5600.7
57.5°	5330.4	5343.8	5578.0	6104.1	6711.7	7119.2	7119.2	7041.9	6791.2	6594.1	6151.6
60°	5043.6	5084.9	5401.6	6086.6	6885.1	7485.5	7706.2	7652.6	7314.2	7071.8	6681.8
62.5°	4407.1	4453.5	4839.3	5666.7	6711.7	7560.8	8150.9	8142.6	7760.9	7466.9	7121.3
65°	3379.6	3413.6	3749.9	4740.3	5979.3	7270.9	8468.6	8491.3	8113.7	7727.9	7272.9
67.5°	1698.1	1721.8	2084.9	3238.3	4739.3	6436.3	8446.9	8548.0	8221.0	7589.6	6694.2
70°	593.2	616.9	788.2	1389.6	2884.4	4914.7	7716.5	7881.6	7590.7	6478.6	4938.4
72.5°	203.2	214.6	327.0	515.8	1122.4	2913.3	5867.9	6116.5	5595.5	4349.3	2838.0
75°	115.5	122.8	175.4	279.6	470.4	958.4	3329.0	3481.7	3262.0	2370.7	1167.8
77.5°	78.4	84.6	109.4	158.9	260.0	308.5	1357.6	1709.4	1490.7	773.7	298.1
80°	46.4	50.5	67.1	93.9	133.1	119.7	290.9	386.9	498.3	231.1	89.8
82.5°	21.7	24.8	43.3	61.9	67.1	50.5	85.6	104.2	140.3	113.5	37.1
85°	0.0	0.0	14.4	25.8	24.8	14.4	23.7	25.8	38.2	56.7	14.4
87.5°	0.0	0.0	0.0	0.0	0.0	1.0	2.1	3.1	6.2	11.3	6.2
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°	1151.3	1151.3	1151.3	1151.3	1151.3	1151.3	1151.3	1151.3	1151.3	1151.3	1151.3
2.5°	1155.4	1148.2	1156.4	1152.3	1156.4	1155.4	1147.2	1142.0	1142.0	1132.7	1129.6
5°	1169.9	1162.6	1164.7	1155.4	1153.4	1148.2	1137.9	1133.8	1133.8	1124.5	1121.4
7.5°	1201.8	1190.5	1188.4	1169.9	1161.6	1147.2	1128.6	1121.4	1120.3	1111.1	1108.0
10°	1252.4	1239.0	1229.7	1206.0	1182.2	1153.4	1114.2	1081.1	1062.6	1037.8	1035.7
12.5°	1314.3	1297.8	1283.3	1247.2	1208.0	1143.0	1027.5	906.8	832.5	773.7	777.8
15°	1383.4	1367.9	1345.2	1290.6	1210.1	1040.9	799.5	613.8	523.0	474.5	472.5
17.5°	1458.7	1436.0	1398.9	1324.6	1145.1	795.4	519.9	367.3	319.8	303.3	299.2
20°	1528.9	1501.0	1454.6	1331.8	957.3	538.5	325.0	284.7	276.5	271.3	271.3
22.5°	1603.1	1568.1	1498.9	1276.1	711.8	344.6	276.5	267.2	261.0	253.8	252.7
25°	1678.5	1633.1	1539.2	1130.7	466.3	271.3	258.9	248.6	237.3	225.9	222.8
27.5°	1742.4	1683.6	1570.1	914.0	299.2	244.5	236.2	218.7	203.2	190.9	188.8
30°	1818.8	1743.4	1583.5	668.5	235.2	215.6	203.2	184.7	166.1	153.7	149.6
32.5°	1920.9	1838.4	1562.9	435.3	208.4	189.8	170.2	148.6	130.0	116.6	114.5
35°	2079.8	1981.7	1468.0	277.5	188.8	164.0	140.3	117.6	102.1	91.8	89.8
37.5°	2273.7	2182.9	1312.2	208.4	169.2	142.4	114.5	92.8	81.5	74.3	72.2
40°	2561.5	2434.6	1119.3	182.6	149.6	120.7	93.9	76.3	68.1	61.9	59.8
42.5°	2935.0	2731.7	897.5	166.1	131.0	101.1	76.3	62.9	55.7	51.6	50.5
45°	3371.3	3021.6	663.3	149.6	113.5	83.6	62.9	51.6	46.4	43.3	42.3
47.5°	3818.0	3275.4	458.0	132.0	97.0	69.1	52.6	44.4	40.2	36.1	35.1
50°	4294.6	3490.0	312.6	114.5	82.5	56.7	45.4	40.2	35.1	32.0	30.9
52.5°	4644.4	3569.4	217.7	99.0	70.2	48.5	40.2	36.1	32.0	27.9	26.8
55°	4967.3	3567.4	165.1	83.6	59.8	42.3	36.1	32.0	27.9	24.8	23.7
57.5°	5289.1	3539.5	130.0	71.2	51.6	38.2	32.0	27.9	25.8	21.7	20.6
60°	5497.5	3434.3	101.1	59.8	44.4	33.0	27.9	24.8	21.7	18.6	17.5
62.5°	5607.9	3287.8	77.4	47.5	36.1	28.9	24.8	21.7	18.6	15.5	14.4
65°	5458.3	3027.8	60.9	37.1	27.9	24.8	20.6	17.5	14.4	11.3	10.3
67.5°	4795.0	2553.3	47.5	29.9	21.7	18.6	17.5	14.4	10.3	8.3	7.2
70°	3388.9	1748.6	37.1	22.7	16.5	14.4	13.4	11.3	8.3	6.2	5.2
72.5°	1860.0	882.0	26.8	16.5	12.4	11.3	10.3	9.3	7.2	5.2	5.2
75°	715.9	242.4	19.6	11.3	8.3	8.3	7.2	7.2	6.2	4.1	4.1
77.5°	186.7	72.2	12.4	7.2	5.2	5.2	5.2	4.1	4.1	3.1	3.1
80°	59.8	23.7	7.2	5.2	4.1	3.1	3.1	2.1	3.1	2.1	2.1
82.5°	19.6	8.3	4.1	4.1	3.1	2.1	2.1	1.0	1.0	0.0	0.0
85°	7.2	4.1	3.1	2.1	2.1	2.1	1.0	0.0	0.0	0.0	0.0
87.5°	4.1	2.1	2.1	2.1	2.1	1.0	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)