

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: P631765

Luminaire Tested: GWS-SA2B-735-U-SL3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631765  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-34)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2B-735-U-SL3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

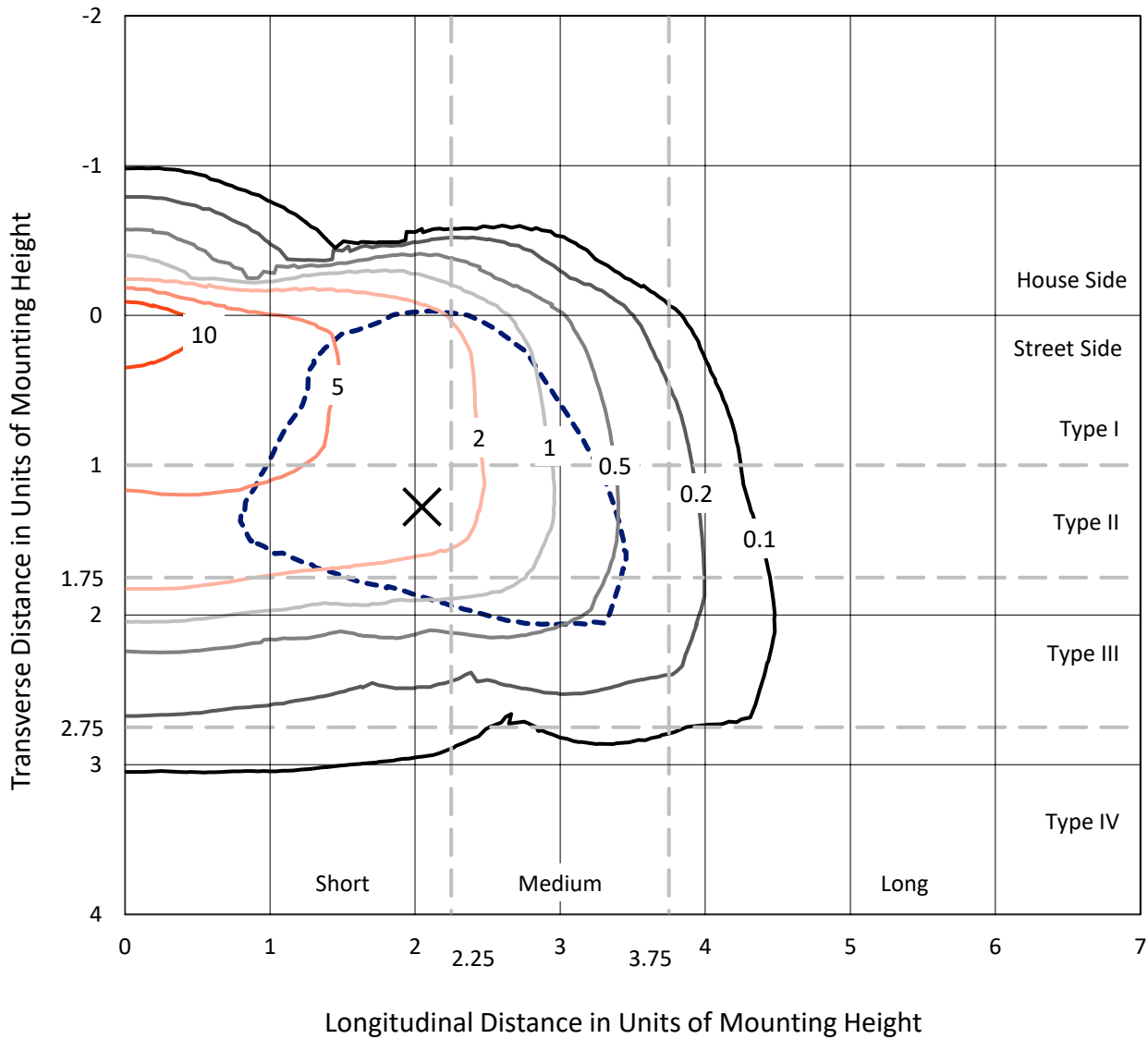
Lumens per Lamp: N/A  
Luminaire Lumens: 5512.8 lumens  
Efficiency: N/A  
Efficacy: 118.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): 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

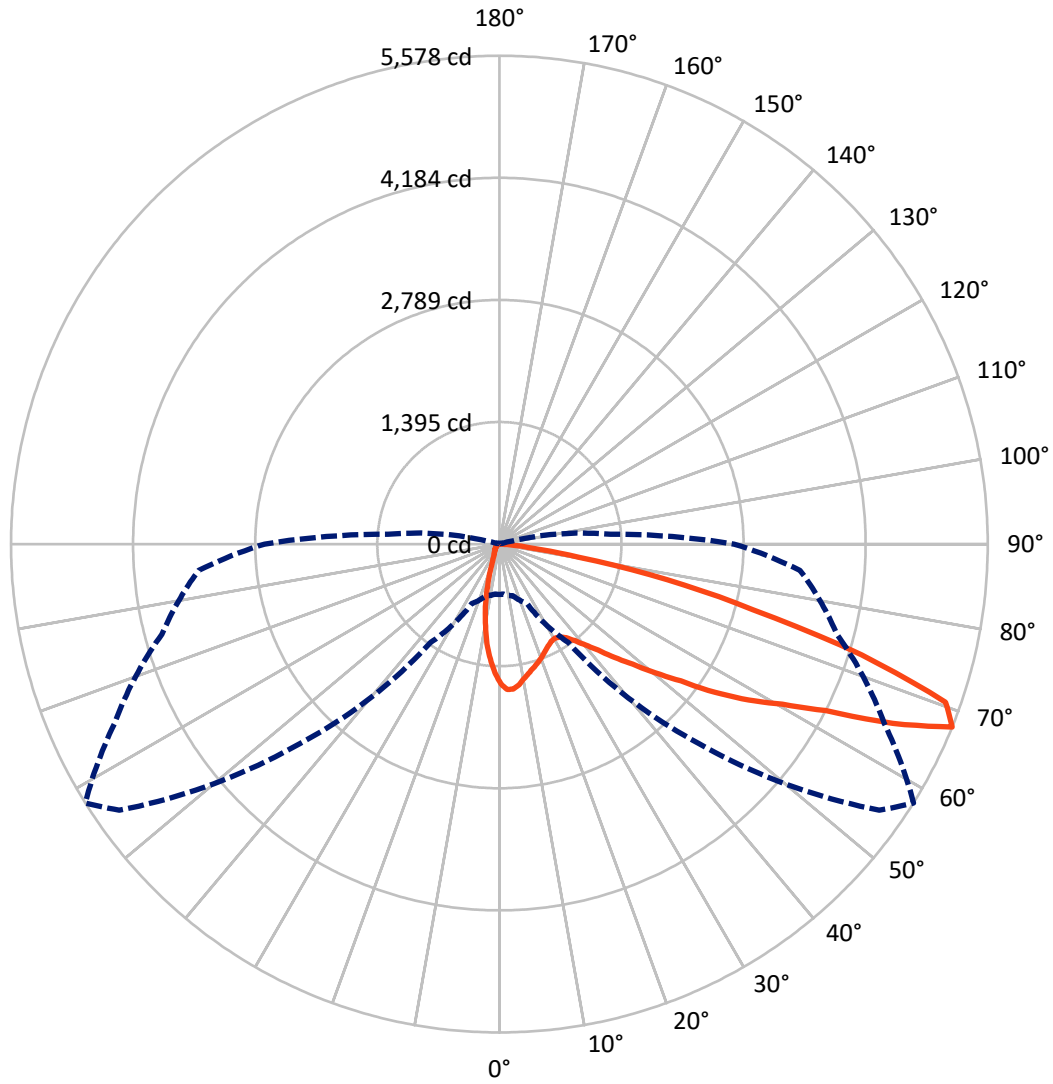
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.9 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	538.6	0.0	538.6
	% Fixture	9.8	0.0	9.8
<b>Street Side</b>	Lumens	4974.2	0.0	4974.2
	% Fixture	90.2	0.0	90.2
<b>Total</b>	Lumens	5512.8	0.0	5512.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.2	2.3
10°-20°	269.0	4.9
20°-30°	362.7	6.6
30°-40°	509.7	9.2
40°-50°	787.2	14.3
50°-60°	1258.9	22.8
60°-70°	1490.6	27.0
70°-80°	659.4	12.0
80°-90°	46.1	0.8
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°	5512.8	100.0
0°-180°	5512.8	100.0

**Coefficient of Utilization**

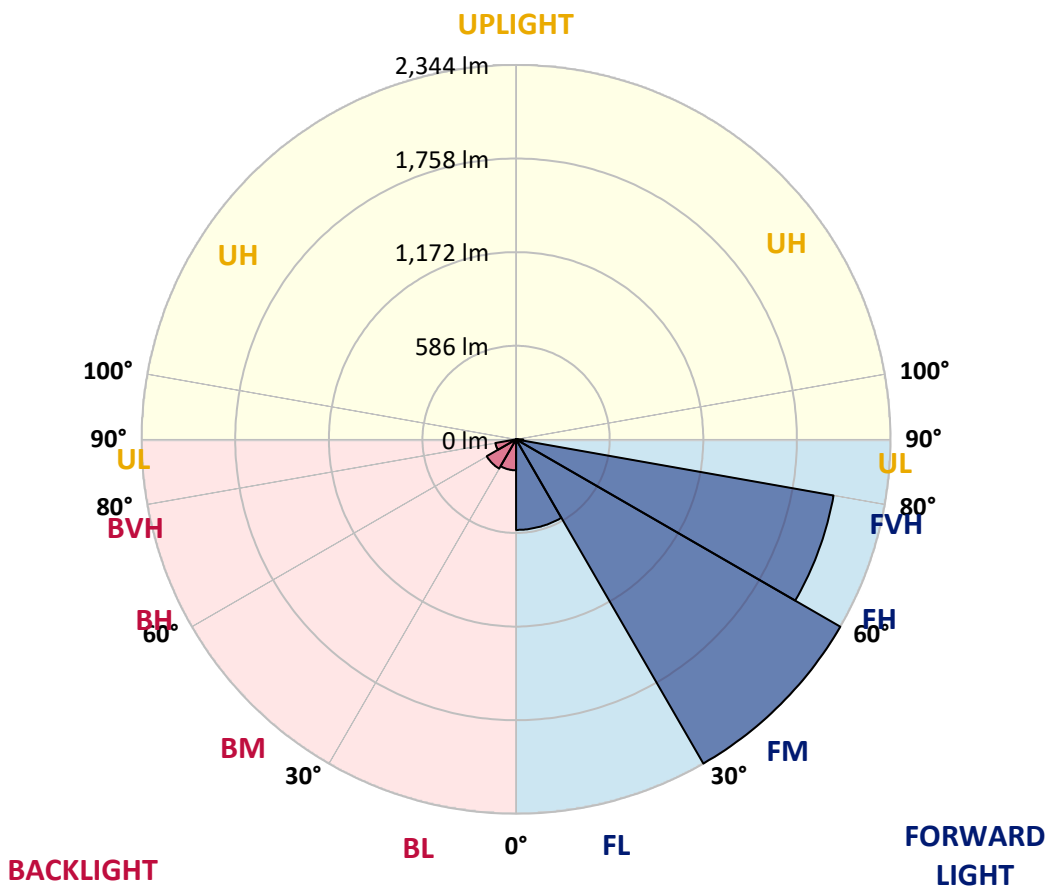


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	567.1	10.3			
FM (30°-60°)	2344.5	42.5			
FH (60°-80°)	2018.5	36.6			G2/5000
FVH (80°-90°)	44.1	0.8			G1/100
BL (0°-30°)	193.8	3.5	B1/500		
BM (30°-60°)	211.3	3.8	B0/220		
BH (60°-80°)	131.5	2.4	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2
2.5°	1672.6	1675.5	1679.4	1684.3	1683.3	1679.0	1673.6	1661.4	1653.6	1629.2	1599.4
5°	1618.9	1618.4	1628.2	1637.5	1654.1	1662.9	1675.0	1663.8	1659.9	1630.6	1582.3
7.5°	1514.0	1519.4	1530.6	1545.3	1569.2	1595.0	1624.3	1620.9	1632.6	1613.1	1553.1
10°	1411.1	1408.2	1425.7	1447.7	1484.3	1517.4	1559.9	1559.4	1590.2	1588.2	1519.9
12.5°	1320.8	1320.3	1334.0	1358.9	1401.8	1448.2	1505.7	1507.2	1545.3	1560.9	1491.6
15°	1244.7	1245.7	1258.8	1284.7	1329.1	1385.7	1452.6	1464.8	1507.7	1539.4	1463.8
17.5°	1190.5	1191.0	1198.8	1221.3	1264.7	1325.2	1405.7	1422.3	1477.4	1523.3	1441.3
20°	1165.7	1163.7	1165.2	1176.4	1210.1	1265.2	1357.9	1379.4	1449.6	1512.1	1420.8
22.5°	1169.1	1166.1	1159.3	1157.8	1173.0	1214.9	1307.2	1333.5	1419.4	1505.3	1402.3
25°	1199.3	1193.0	1183.2	1168.6	1162.7	1183.7	1262.8	1290.1	1391.1	1505.7	1388.1
27.5°	1245.7	1238.8	1226.6	1207.1	1184.2	1175.4	1232.5	1258.4	1371.1	1517.0	1381.3
30°	1304.7	1299.3	1287.6	1264.2	1233.5	1197.4	1226.2	1247.6	1361.3	1539.9	1384.2
32.5°	1374.5	1370.6	1360.8	1339.4	1304.2	1249.1	1247.6	1264.2	1369.1	1573.1	1395.5
35°	1441.8	1443.3	1443.8	1432.1	1394.5	1327.6	1306.7	1312.5	1401.3	1622.8	1420.8
37.5°	1514.5	1511.1	1528.7	1537.0	1500.9	1429.6	1397.9	1398.4	1462.8	1696.5	1468.7
40°	1569.7	1570.6	1608.7	1642.8	1627.7	1558.9	1513.5	1513.1	1557.5	1797.5	1545.7
42.5°	1621.4	1627.7	1683.8	1742.4	1763.4	1702.4	1669.7	1657.5	1690.2	1934.1	1661.4
45°	1676.5	1685.8	1764.3	1847.8	1902.9	1866.8	1840.9	1845.8	1849.7	2093.2	1817.0
47.5°	1740.9	1746.8	1843.9	1961.5	2064.4	2055.1	2056.6	2050.8	2048.8	2293.7	2022.9
50°	1819.0	1832.6	1944.4	2084.9	2225.4	2286.9	2307.4	2309.8	2278.1	2512.3	2236.2
52.5°	1984.9	2001.5	2097.1	2220.1	2401.1	2530.4	2613.8	2597.2	2548.4	2724.1	2469.9
55°	2180.5	2193.2	2285.4	2412.8	2615.8	2797.3	2995.4	2988.5	2869.0	2947.1	2662.1
57.5°	2199.1	2213.2	2356.2	2551.4	2891.4	3127.1	3335.5	3357.4	3182.3	3105.2	2833.9
60°	1990.7	2019.5	2214.7	2477.2	2996.8	3570.6	3708.2	3712.6	3412.1	3265.7	3043.7
62.5°	1595.5	1609.2	1805.8	2148.3	2834.4	3829.2	4277.6	4184.9	3707.3	3514.0	3376.0
65°	836.3	891.9	1063.2	1442.3	2298.6	3739.0	4962.7	4937.3	4238.1	3869.7	3634.6
67.5°	573.8	573.3	613.8	751.9	1370.6	3219.3	5298.9	5578.0	4851.9	3991.7	3447.2
70°	436.7	438.2	474.3	564.0	709.9	2143.0	4930.0	5407.2	4966.1	3624.3	2788.0
72.5°	289.8	292.8	352.8	455.7	567.0	1050.5	3831.2	4326.4	4178.6	2911.0	1962.4
75°	173.2	175.7	218.6	331.3	504.0	588.0	2434.3	2991.0	2876.3	2006.4	1052.0
77.5°	71.2	73.2	112.2	206.4	368.9	456.7	1346.2	1957.1	1722.9	797.8	287.4
80°	29.8	30.7	54.2	144.4	265.9	286.4	623.6	919.7	706.0	171.7	87.8
82.5°	10.7	11.2	20.0	79.5	165.4	215.7	314.7	363.5	199.1	56.1	47.3
85°	0.5	0.5	4.9	26.8	62.9	61.0	180.0	174.2	65.9	23.4	28.3
87.5°	0.0	0.0	0.5	0.5	1.0	2.4	17.1	30.3	14.1	5.9	12.2
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°	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2	1590.2
2.5°	1579.9	1554.0	1525.7	1499.4	1457.4	1432.6	1401.8	1388.1	1368.6	1363.8	1366.7
5°	1547.7	1503.3	1435.5	1374.0	1294.5	1230.5	1166.1	1138.8	1103.7	1080.3	1070.5
7.5°	1502.3	1444.3	1338.4	1226.6	1117.4	1000.7	911.9	853.4	800.2	770.9	765.1
10°	1456.5	1380.8	1229.1	1069.0	899.7	760.2	640.2	551.4	479.1	446.5	421.1
12.5°	1409.1	1315.0	1117.8	909.0	712.4	522.1	373.8	287.4	235.7	215.2	218.6
15°	1365.7	1251.5	1007.6	749.0	501.6	315.2	206.4	174.2	162.0	158.1	157.6
17.5°	1324.2	1191.5	897.8	593.3	330.8	193.2	158.1	150.3	146.9	144.9	144.9
20°	1286.7	1133.9	790.4	446.9	213.7	153.2	143.0	139.1	136.1	134.7	134.7
22.5°	1251.5	1078.3	685.5	316.2	157.6	137.6	131.3	127.3	123.9	122.0	122.0
25°	1219.8	1028.1	585.5	217.6	135.6	125.9	119.1	114.7	108.8	105.4	105.4
27.5°	1196.9	983.2	489.4	158.6	122.5	113.2	105.4	99.5	93.2	89.3	88.3
30°	1183.2	945.1	392.3	130.3	110.3	101.0	92.2	84.9	77.6	73.7	73.2
32.5°	1175.4	910.0	303.5	113.7	100.0	89.3	79.5	71.7	64.4	60.0	59.5
35°	1178.3	882.7	227.4	102.5	90.3	79.0	68.3	60.5	54.2	50.3	49.3
37.5°	1203.7	870.5	170.8	93.7	82.0	70.3	59.0	51.7	45.9	42.9	42.4
40°	1253.0	872.9	134.2	86.9	75.1	61.5	50.7	43.9	39.5	37.1	36.6
42.5°	1329.6	893.4	110.8	81.0	67.8	53.7	43.9	38.5	34.2	31.7	31.2
45°	1443.8	935.8	96.6	74.2	60.0	46.4	38.1	33.2	29.3	26.3	25.9
47.5°	1609.2	1009.5	87.3	67.8	53.2	40.0	32.7	27.8	24.4	22.0	21.5
50°	1785.3	1097.8	79.5	61.5	47.3	34.6	27.8	22.9	20.0	17.6	17.1
52.5°	1973.2	1193.0	73.7	55.6	42.0	29.8	23.4	19.0	16.1	13.7	13.2
55°	2153.7	1288.6	66.8	51.7	35.6	25.4	19.5	15.6	12.7	10.7	10.7
57.5°	2329.4	1376.4	59.5	45.4	29.3	21.5	16.1	12.7	10.2	8.8	8.3
60°	2539.2	1497.9	51.2	38.5	24.4	18.1	13.2	10.2	8.3	6.8	6.8
62.5°	2851.0	1624.3	43.9	32.2	20.5	15.1	10.7	8.3	6.8	5.9	5.4
65°	2952.9	1556.0	37.1	26.3	16.6	12.2	8.8	7.3	5.9	5.4	4.9
67.5°	2680.7	1275.4	30.7	21.5	13.7	10.2	7.8	6.3	5.4	4.9	4.4
70°	2091.7	905.1	23.9	16.1	11.2	8.3	6.8	5.9	4.9	4.4	4.4
72.5°	1422.8	535.3	19.0	12.2	9.3	7.3	5.9	5.4	4.9	4.4	3.9
75°	700.7	190.3	14.6	9.3	7.3	6.3	5.4	4.9	4.4	3.9	3.9
77.5°	188.8	52.7	11.2	7.3	5.9	4.9	4.9	4.9	4.4	3.4	3.4
80°	63.9	22.0	8.3	5.4	4.9	3.9	3.4	4.4	3.9	3.4	2.9
82.5°	35.1	10.7	5.9	4.4	3.4	2.9	2.9	2.9	2.9	2.4	2.4
85°	22.4	5.9	3.9	3.4	3.4	2.4	2.0	2.0	1.5	1.5	1.5
87.5°	10.2	3.4	3.4	2.9	2.9	2.4	1.5	1.0	0.5	0.5	0.5
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)