

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: P631431

Luminaire Tested: GWS-SA1F-760-U-SL2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631431  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1F-760-U-SL2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (16) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

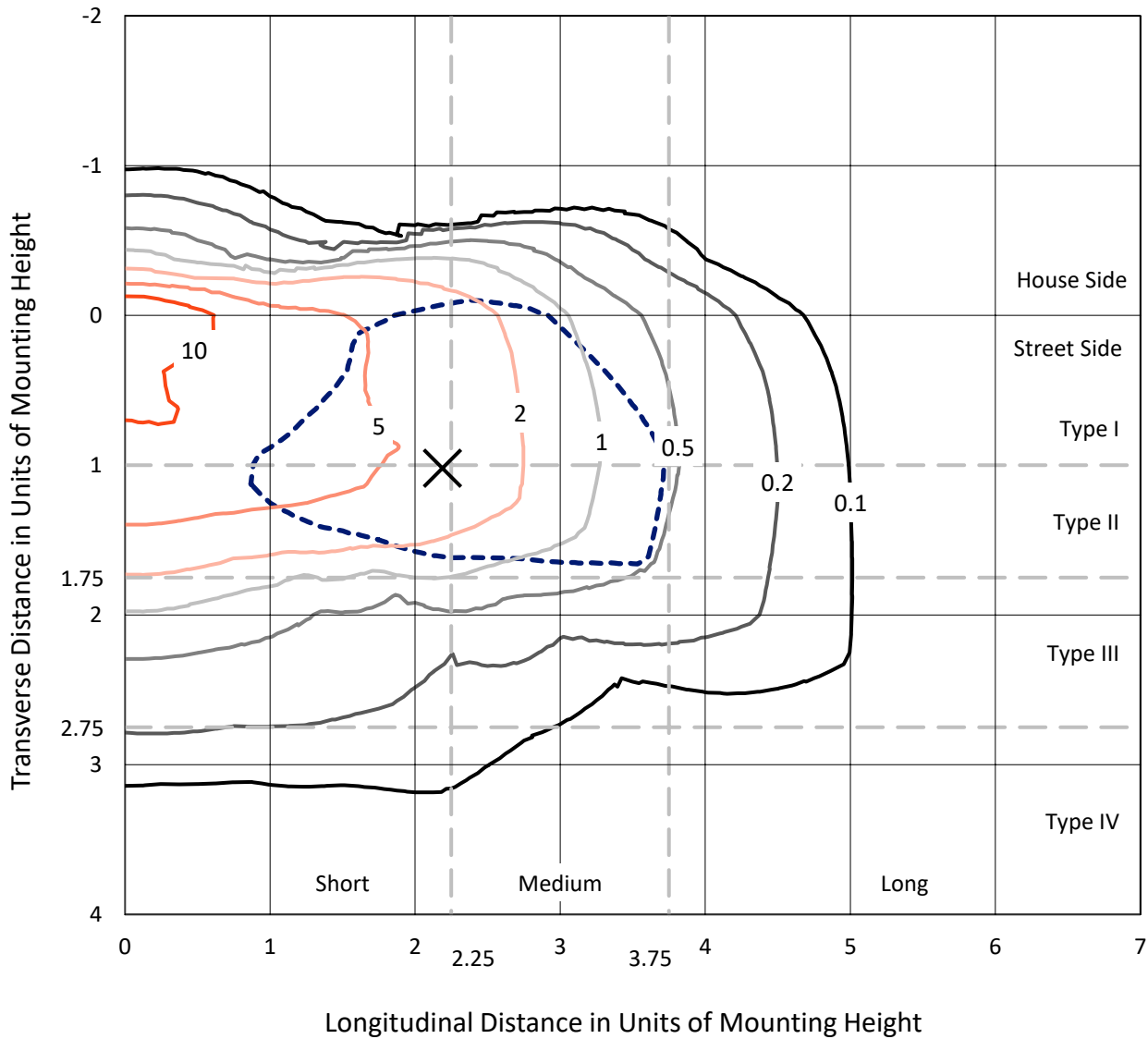
Lumens per Lamp: N/A  
Luminaire Lumens: 6738 lumens  
Efficiency: N/A  
Efficacy: 100.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

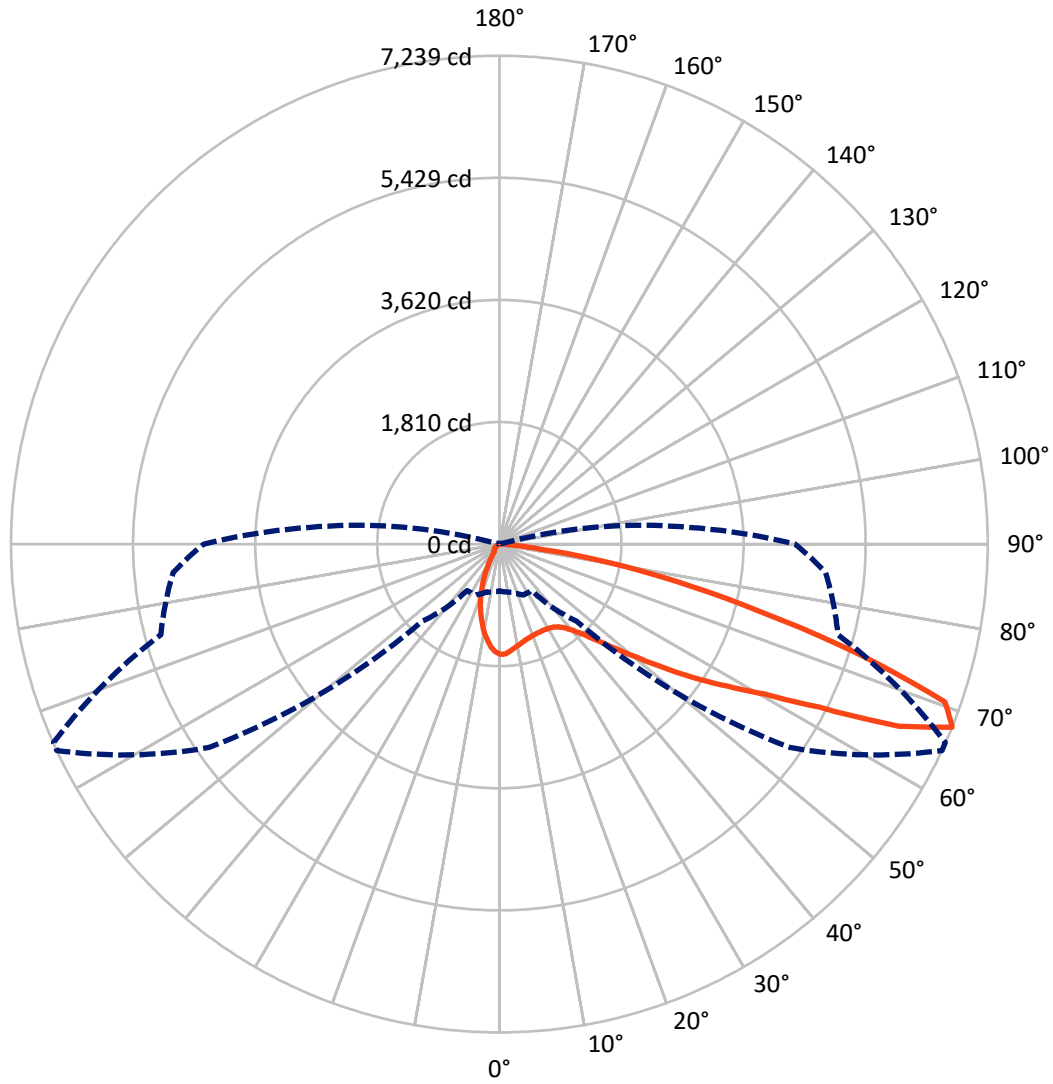
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	841.4	0.0	841.4
	% Fixture	12.5	0.0	12.5
<b>Street Side</b>	Lumens	5896.6	0.0	5896.6
	% Fixture	87.5	0.0	87.5
<b>Total</b>	Lumens	6738.0	0.0	6738.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.7	2.0
10°-20°	305.1	4.5
20°-30°	436.0	6.5
30°-40°	634.3	9.4
40°-50°	993.4	14.7
50°-60°	1549.8	23.0
60°-70°	1702.3	25.3
70°-80°	906.0	13.4
80°-90°	75.4	1.1
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°	6738.0	100.0
0°-180°	6738.0	100.0

**Coefficient of Utilization**



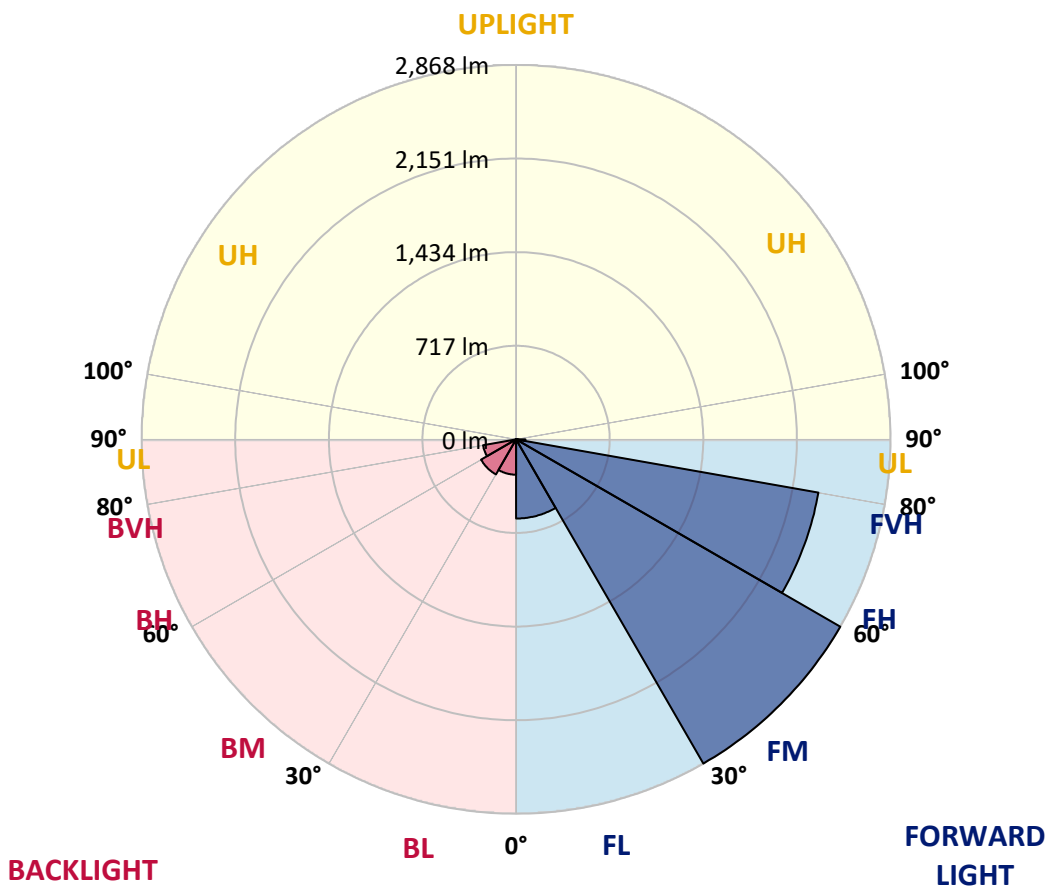
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	606.4	9.0			
FM (30°-60°)	2867.5	42.6			
FH (60°-80°)	2351.3	34.9			G2/5000
FVH (80°-90°)	71.4	1.1			G1/100
BL (0°-30°)	270.4	4.0	B1/500		
BM (30°-60°)	309.9	4.6	B1/1000		
BH (60°-80°)	257.0	3.8	B1/500		G1/500
BVH (80°-90°)	4.0	0.1			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1634.2	1634.2	1634.2	1634.2	1634.2	1634.2	1634.2	1634.2	1634.2	1634.2	1634.2
2.5°	1577.5	1582.4	1575.7	1592.1	1595.2	1613.5	1623.8	1631.1	1630.5	1639.7	1639.7
5°	1484.9	1489.8	1486.1	1503.8	1517.8	1546.4	1570.2	1597.6	1598.8	1626.9	1637.2
7.5°	1406.3	1406.9	1406.9	1428.8	1447.1	1482.5	1517.8	1559.8	1564.7	1608.0	1635.4
10°	1341.7	1343.5	1344.1	1369.1	1389.2	1431.9	1477.0	1527.5	1533.0	1591.5	1634.2
12.5°	1297.2	1297.8	1300.3	1326.5	1348.4	1392.9	1438.6	1496.5	1503.8	1572.6	1628.7
15°	1275.9	1274.7	1275.9	1297.8	1319.8	1362.4	1409.3	1471.5	1479.4	1556.8	1629.3
17.5°	1274.7	1272.9	1271.6	1288.1	1302.1	1339.9	1387.4	1455.0	1463.6	1549.5	1636.0
20°	1292.4	1291.1	1285.0	1292.4	1295.4	1326.5	1373.4	1442.2	1450.8	1548.3	1650.6
22.5°	1338.7	1335.6	1326.5	1319.8	1303.3	1321.6	1363.6	1433.1	1442.9	1551.3	1669.5
25°	1407.5	1406.3	1394.7	1378.3	1336.2	1328.9	1364.3	1433.1	1442.2	1555.0	1689.6
27.5°	1511.1	1503.8	1489.2	1460.5	1400.2	1357.5	1376.4	1436.8	1445.9	1559.8	1706.1
30°	1616.5	1615.9	1611.0	1581.8	1492.2	1412.4	1402.0	1446.5	1455.0	1564.1	1721.3
32.5°	1725.6	1727.4	1739.6	1717.0	1618.9	1494.0	1448.3	1466.6	1472.7	1572.6	1734.7
35°	1829.2	1832.8	1865.1	1873.0	1773.1	1617.7	1523.9	1506.8	1507.4	1591.5	1752.4
37.5°	1928.5	1940.7	1992.5	2030.8	1965.0	1767.6	1633.0	1575.1	1570.2	1629.3	1779.2
40°	2041.2	2064.4	2129.5	2194.7	2174.0	1965.6	1781.6	1679.9	1669.5	1698.8	1827.3
42.5°	2166.1	2191.1	2277.6	2369.0	2378.8	2205.1	1967.5	1832.8	1815.1	1815.8	1917.5
45°	2300.2	2333.7	2434.2	2565.8	2624.9	2472.0	2196.6	2039.4	2021.7	1995.5	2062.5
47.5°	2476.2	2505.5	2602.4	2754.1	2867.4	2758.4	2497.0	2305.0	2272.7	2234.4	2288.0
50°	2628.0	2653.6	2737.0	2927.1	3162.9	3127.6	2837.6	2637.1	2606.0	2540.8	2585.3
52.5°	2661.5	2681.6	2758.4	2972.2	3389.0	3593.7	3254.9	3038.6	3016.7	2896.1	2913.1
55°	2511.0	2541.4	2610.3	2847.9	3448.1	4049.5	3796.6	3491.4	3445.7	3253.1	3283.6
57.5°	2130.8	2185.0	2249.6	2558.5	3287.9	4292.0	4553.4	3970.9	3929.5	3596.8	3597.4
60°	1561.7	1605.5	1648.8	1931.5	2907.6	4275.5	5240.1	4509.5	4434.0	3877.7	3867.3
62.5°	1135.8	1158.3	1157.7	1258.2	1996.7	3994.0	5600.8	5321.1	5145.0	4178.1	4119.0
65°	893.3	892.6	918.8	951.7	1115.0	3083.1	5645.3	6506.2	6316.1	4580.8	4457.7
67.5°	695.2	708.6	734.8	831.7	837.8	1613.5	5254.1	7239.2	7235.6	5195.6	4854.4
70°	536.2	554.5	591.6	733.0	773.8	903.0	3931.3	7007.1	7066.2	5470.4	4573.5
72.5°	344.3	343.0	397.9	592.3	743.4	752.5	2174.0	5566.1	5633.1	4954.9	3697.9
75°	192.5	193.8	224.8	362.5	692.8	708.0	1076.7	3969.1	4022.1	3863.0	2841.2
77.5°	75.6	78.0	105.4	190.7	457.0	632.5	639.8	2706.6	2714.5	2394.0	1742.6
80°	30.5	32.3	53.6	118.2	278.5	425.9	457.0	1594.6	1562.3	926.8	506.9
82.5°	9.1	9.7	21.3	67.0	145.6	302.8	308.3	611.8	577.6	199.2	129.2
85°	0.6	0.6	4.9	20.7	51.8	76.2	205.3	199.2	176.7	50.0	57.3
87.5°	0.0	0.0	0.6	0.6	1.2	2.4	21.9	36.6	37.2	9.1	25.6
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°	1634.2	1634.2	1634.2	1634.2	1634.2	1634.2	1634.2	1634.2	1634.2	1634.2	1634.2
2.5°	1639.7	1617.7	1615.9	1598.8	1581.8	1560.5	1535.5	1517.2	1504.4	1481.8	1477.6
5°	1637.2	1608.0	1580.6	1531.8	1477.6	1419.1	1367.9	1320.4	1290.5	1270.4	1261.9
7.5°	1632.3	1595.2	1531.8	1439.8	1349.0	1246.7	1166.8	1093.7	1043.8	1014.5	1001.7
10°	1628.7	1578.7	1475.8	1336.2	1195.5	1054.1	932.9	824.4	764.1	716.6	708.6
12.5°	1621.4	1555.0	1403.9	1215.0	1033.4	845.7	691.0	558.1	466.1	424.7	410.1
15°	1614.1	1530.0	1332.0	1087.0	856.7	625.2	437.5	309.5	246.2	226.7	225.4
17.5°	1612.9	1507.4	1254.0	965.8	671.5	409.5	249.2	200.5	187.1	182.2	182.2
20°	1616.5	1488.6	1177.2	826.2	489.3	249.2	185.8	173.7	165.7	161.5	161.5
22.5°	1620.2	1469.1	1103.5	685.5	324.8	182.2	163.9	153.5	144.4	139.5	137.1
25°	1622.6	1447.7	1021.8	544.1	212.0	158.4	143.8	130.4	119.4	113.3	113.3
27.5°	1622.0	1422.1	939.6	405.8	164.5	140.8	123.1	109.1	98.1	91.4	92.0
30°	1617.1	1394.1	854.3	283.3	143.8	123.1	105.4	90.8	79.8	74.3	73.7
32.5°	1613.5	1364.3	755.5	199.2	129.2	107.8	89.6	75.6	66.4	62.1	61.5
35°	1609.2	1335.0	661.7	151.7	116.4	93.2	75.6	64.0	56.7	53.0	53.0
37.5°	1610.4	1304.5	560.0	130.4	103.6	81.0	64.6	54.8	48.7	45.1	44.5
40°	1629.3	1286.3	460.0	118.2	92.0	70.1	56.1	47.5	41.4	37.8	37.2
42.5°	1676.2	1286.9	364.4	109.1	81.6	59.7	48.7	40.8	35.3	31.1	30.5
45°	1770.1	1312.5	279.7	99.3	70.7	51.8	42.0	34.7	29.2	25.6	25.0
47.5°	1923.6	1388.6	212.0	90.8	61.5	45.1	35.9	29.2	24.4	21.3	20.7
50°	2167.9	1526.3	167.0	80.4	51.8	39.0	30.5	24.4	20.1	17.1	16.5
52.5°	2461.6	1732.9	143.2	71.3	44.5	34.1	26.2	20.1	16.5	14.0	13.4
55°	2799.2	1979.7	132.2	62.1	37.8	29.2	21.3	16.5	13.4	11.6	10.4
57.5°	3108.7	2202.1	131.6	53.0	32.3	25.0	17.7	14.0	11.6	9.1	8.5
60°	3410.3	2387.9	123.7	43.9	28.0	20.7	15.2	11.6	9.7	7.9	7.3
62.5°	3683.9	2539.0	103.6	35.3	23.8	17.1	12.8	10.4	8.5	6.7	6.7
65°	4027.6	2731.5	79.2	28.6	19.5	14.0	11.0	9.1	7.9	6.1	6.1
67.5°	4382.8	2833.3	56.7	23.8	15.8	12.2	9.7	8.5	6.7	5.5	5.5
70°	3969.7	2394.0	40.8	19.5	13.4	10.4	8.5	7.9	6.7	5.5	4.9
72.5°	3100.2	1726.2	30.5	15.2	11.6	9.7	7.9	7.3	6.1	4.9	4.9
75°	2298.9	1006.6	23.2	12.2	9.1	7.9	7.9	7.3	6.1	4.9	4.3
77.5°	1249.7	351.0	17.7	9.7	7.3	6.1	6.7	6.7	5.5	4.3	3.7
80°	330.9	96.3	12.2	7.3	6.1	4.9	4.9	6.1	4.9	3.7	3.7
82.5°	96.3	28.0	8.5	6.1	4.9	4.3	4.3	4.3	3.7	3.0	2.4
85°	46.9	10.4	6.1	4.9	4.3	3.7	3.0	3.0	2.4	1.8	1.8
87.5°	20.7	4.3	4.9	4.3	4.3	3.0	2.4	1.8	1.8	1.2	0.6
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)