

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: P631376

Luminaire Tested: GWS-SA1F-750-U-SL2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631376  
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-750-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) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

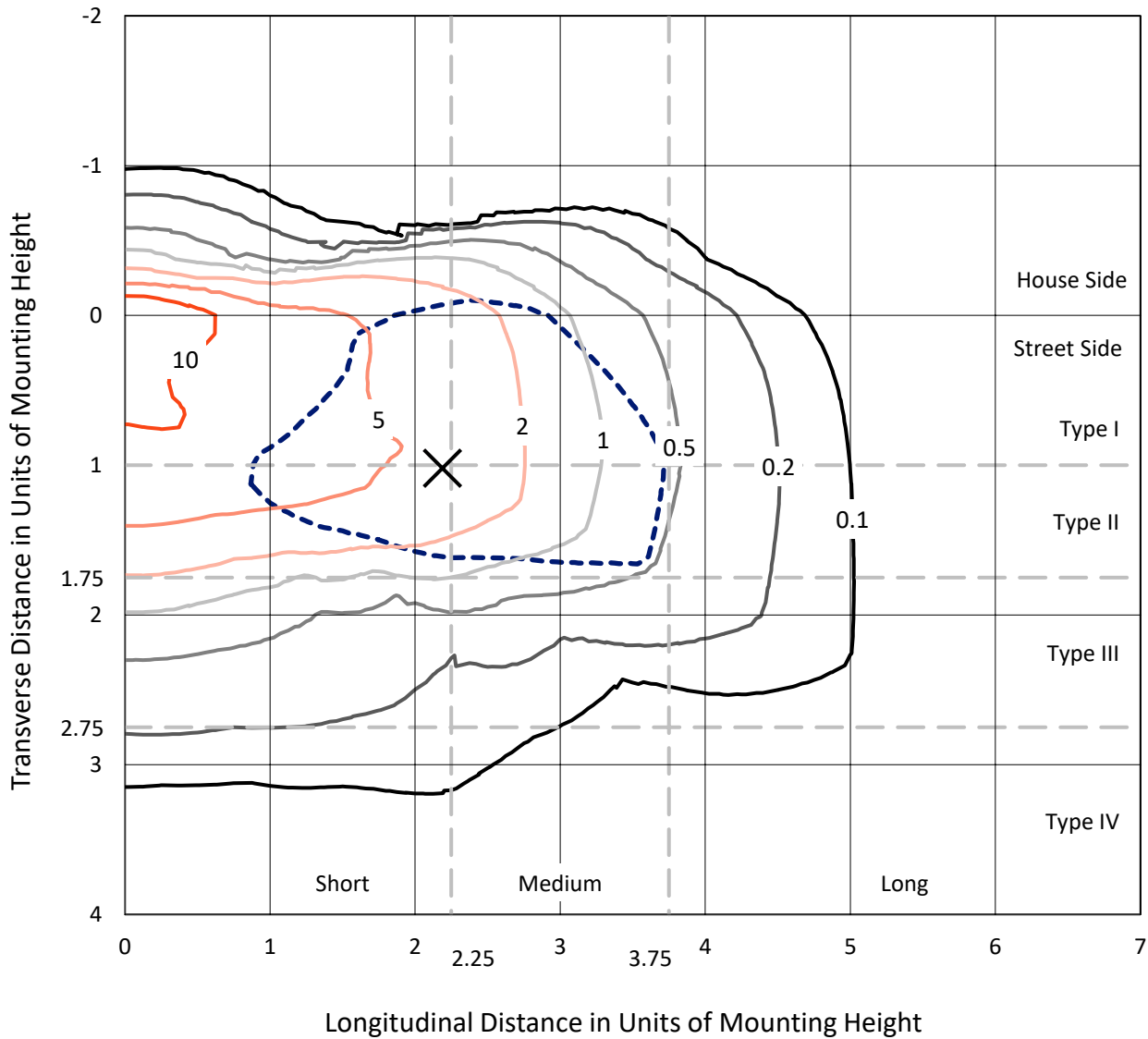
Lumens per Lamp: N/A  
Luminaire Lumens: 6831.6 lumens  
Efficiency: N/A  
Efficacy: 101.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

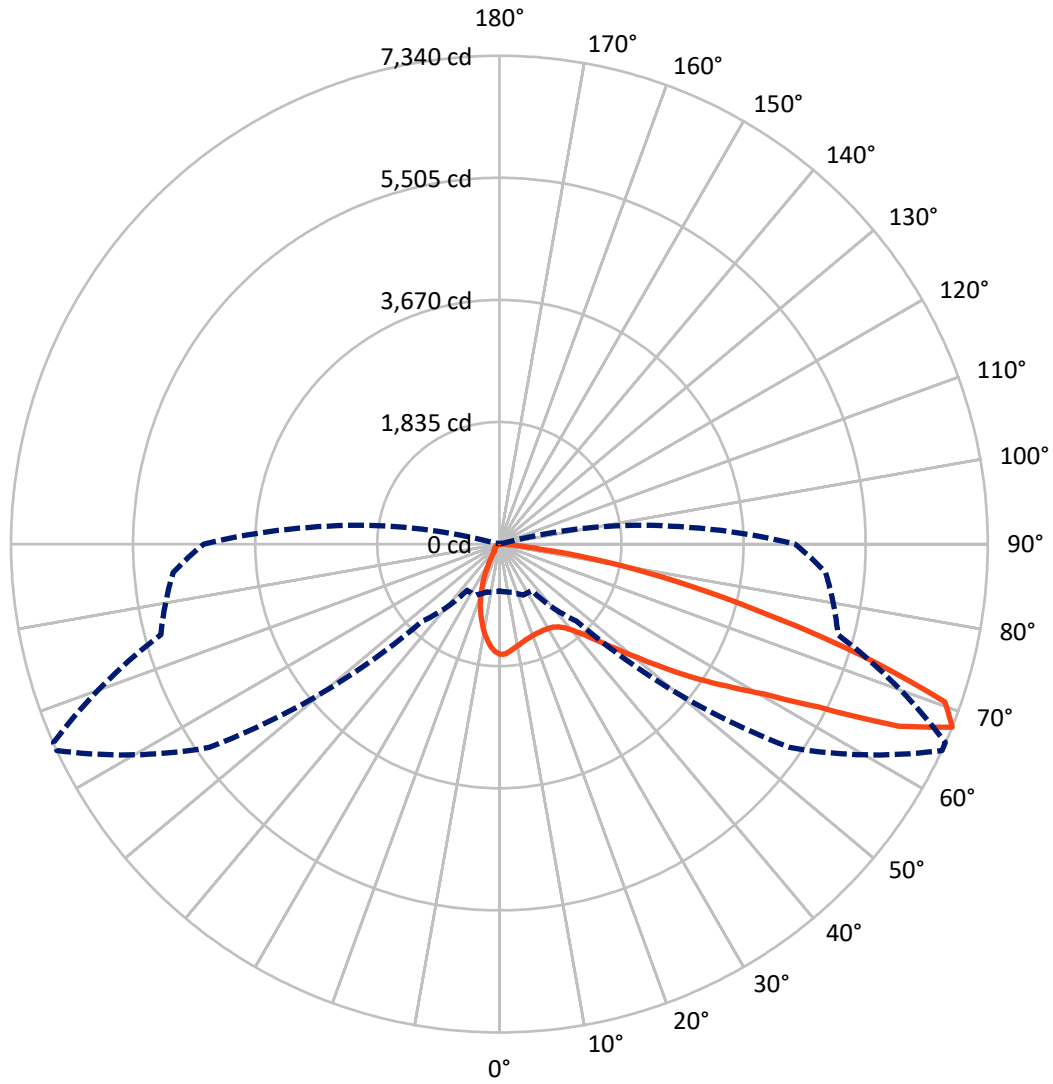
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.6 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	853.1	0.0	853.1
	% Fixture	12.5	0.0	12.5
<b>Street Side</b>	Lumens	5978.5	0.0	5978.5
	% Fixture	87.5	0.0	87.5
<b>Total</b>	Lumens	6831.6	0.0	6831.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.6	2.0
10°-20°	309.3	4.5
20°-30°	442.0	6.5
30°-40°	643.1	9.4
40°-50°	1007.2	14.7
50°-60°	1571.3	23.0
60°-70°	1726.0	25.3
70°-80°	918.6	13.4
80°-90°	76.5	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°	6831.6	100.0
0°-180°	6831.6	100.0

**Coefficient of Utilization**



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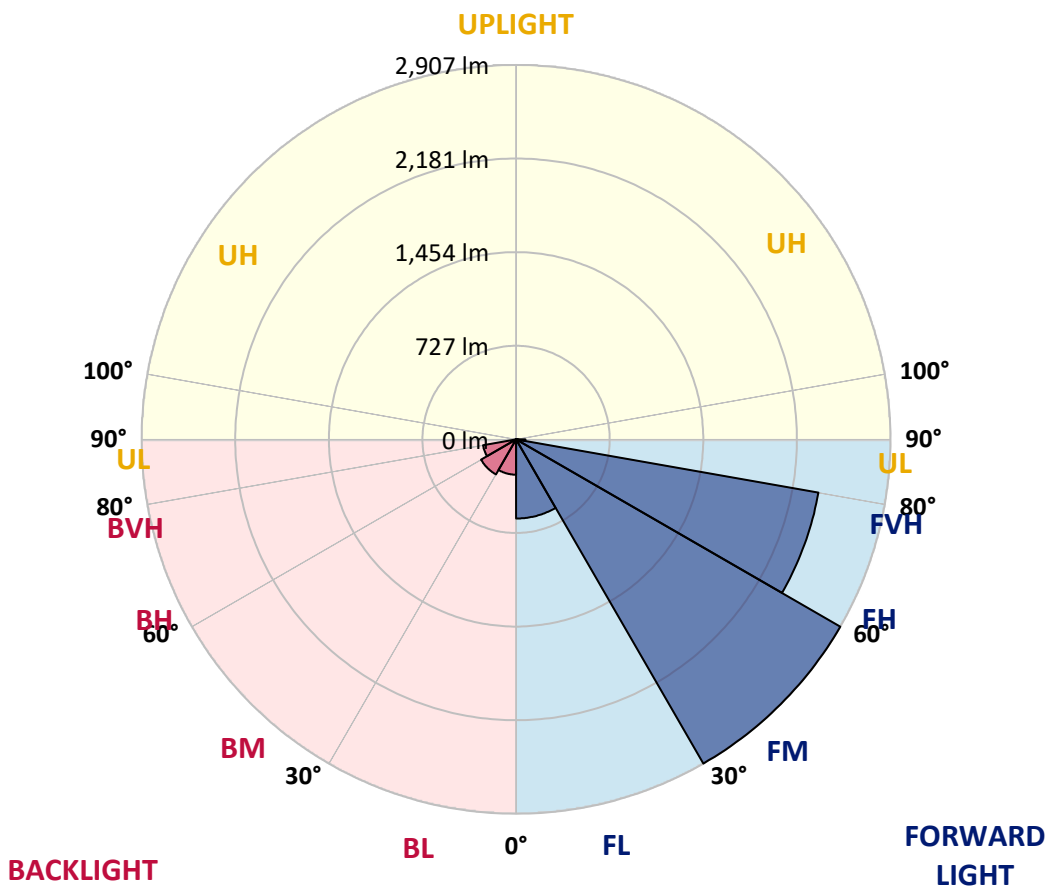
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	614.8	9.0			
FM (30°-60°)	2907.4	42.6			
FH (60°-80°)	2384.0	34.9			G2/5000
FVH (80°-90°)	72.4	1.1			G1/100
BL (0°-30°)	274.2	4.0	B1/500		
BM (30°-60°)	314.2	4.6	B1/1000		
BH (60°-80°)	260.6	3.8	B1/500		G1/500
BVH (80°-90°)	4.1	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°	1656.9	1656.9	1656.9	1656.9	1656.9	1656.9	1656.9	1656.9	1656.9	1656.9	1656.9
2.5°	1599.4	1604.4	1597.6	1614.3	1617.3	1635.9	1646.4	1653.8	1653.2	1662.4	1662.4
5°	1505.5	1510.5	1506.8	1524.7	1538.9	1567.9	1592.0	1619.8	1621.0	1649.5	1660.0
7.5°	1425.8	1426.4	1426.4	1448.7	1467.2	1503.1	1538.9	1581.5	1586.5	1630.3	1658.1
10°	1360.3	1362.2	1362.8	1388.1	1408.5	1451.8	1497.5	1548.8	1554.3	1613.6	1656.9
12.5°	1315.2	1315.9	1318.3	1344.9	1367.1	1412.2	1458.6	1517.3	1524.7	1594.5	1651.3
15°	1293.6	1292.4	1293.6	1315.9	1338.1	1381.3	1428.9	1491.9	1500.0	1578.4	1651.9
17.5°	1292.4	1290.5	1289.3	1306.0	1320.2	1358.5	1406.7	1475.3	1483.9	1571.0	1658.7
20°	1310.3	1309.1	1302.9	1310.3	1313.4	1344.9	1392.5	1462.3	1470.9	1569.8	1673.6
22.5°	1357.3	1354.2	1344.9	1338.1	1321.4	1340.0	1382.6	1453.0	1462.9	1572.9	1692.7
25°	1427.1	1425.8	1414.1	1397.4	1354.8	1347.4	1383.2	1453.0	1462.3	1576.6	1713.1
27.5°	1532.1	1524.7	1509.8	1480.8	1419.7	1376.4	1395.6	1456.7	1466.0	1581.5	1729.8
30°	1639.0	1638.3	1633.4	1603.7	1512.9	1432.0	1421.5	1466.6	1475.3	1585.8	1745.2
32.5°	1749.5	1751.4	1763.8	1740.9	1641.4	1514.8	1468.5	1487.0	1493.2	1594.5	1758.8
35°	1854.6	1858.3	1891.0	1899.0	1797.7	1640.2	1545.1	1527.8	1528.4	1613.6	1776.7
37.5°	1955.3	1967.6	2020.1	2059.1	1992.3	1792.2	1655.6	1597.0	1592.0	1651.9	1803.9
40°	2069.6	2093.0	2159.1	2225.2	2204.2	1992.9	1806.4	1703.2	1692.7	1722.4	1852.7
42.5°	2196.2	2221.5	2309.3	2401.9	2411.8	2235.7	1994.8	1858.3	1840.4	1841.0	1944.1
45°	2332.1	2366.1	2468.0	2601.5	2661.4	2506.3	2227.1	2067.7	2049.8	2023.2	2091.2
47.5°	2510.6	2540.3	2638.5	2792.4	2907.3	2796.7	2531.7	2337.1	2304.3	2265.4	2319.8
50°	2664.5	2690.4	2775.1	2967.8	3206.9	3171.0	2877.0	2673.7	2642.2	2576.1	2621.2
52.5°	2698.5	2718.8	2796.7	3013.5	3436.1	3643.6	3300.2	3080.9	3058.6	2936.3	2953.6
55°	2545.9	2576.7	2646.6	2887.5	3496.0	4105.7	3849.4	3539.9	3493.5	3298.3	3329.2
57.5°	2160.4	2215.3	2280.8	2594.0	3333.5	4351.6	4616.6	4026.1	3984.0	3646.7	3647.4
60°	1583.4	1627.8	1671.7	1958.4	2948.0	4334.9	5312.9	4572.2	4495.6	3931.5	3921.0
62.5°	1151.5	1174.4	1173.8	1275.7	2024.5	4049.5	5678.6	5395.0	5216.5	4236.1	4176.2
65°	905.7	905.0	931.6	965.0	1130.5	3126.0	5723.7	6596.6	6403.9	4644.4	4519.7
67.5°	704.9	718.5	745.0	843.3	849.4	1635.9	5327.1	7339.8	7336.1	5267.8	4921.8
70°	543.6	562.2	599.9	743.2	784.6	915.5	3985.9	7104.4	7164.4	5546.4	4637.0
72.5°	349.0	347.8	403.4	600.5	753.7	763.0	2204.2	5643.4	5711.3	5023.8	3749.3
75°	195.2	196.5	228.0	367.6	702.4	717.9	1091.6	4024.2	4077.9	3916.7	2880.7
77.5°	76.6	79.1	106.9	193.4	463.3	641.3	648.7	2744.2	2752.2	2427.2	1766.8
80°	30.9	32.7	54.4	119.8	282.3	431.8	463.3	1616.7	1584.0	939.6	514.0
82.5°	9.3	9.9	21.6	68.0	147.6	307.0	312.6	620.2	585.7	202.0	131.0
85°	0.6	0.6	4.9	21.0	52.5	77.2	208.2	202.0	179.2	50.7	58.1
87.5°	0.0	0.0	0.6	0.6	1.2	2.5	22.2	37.1	37.7	9.3	25.9
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°	1656.9	1656.9	1656.9	1656.9	1656.9	1656.9	1656.9	1656.9	1656.9	1656.9	1656.9
2.5°	1662.4	1640.2	1638.3	1621.0	1603.7	1582.1	1556.8	1538.3	1525.3	1502.4	1498.1
5°	1660.0	1630.3	1602.5	1553.1	1498.1	1438.8	1386.9	1338.7	1308.5	1288.1	1279.4
7.5°	1655.0	1617.3	1553.1	1459.8	1367.8	1264.0	1183.0	1108.9	1058.3	1028.6	1015.6
10°	1651.3	1600.7	1496.3	1354.8	1212.1	1068.8	945.8	835.9	774.7	726.5	718.5
12.5°	1643.9	1576.6	1423.4	1231.8	1047.7	857.5	700.6	565.9	472.6	430.6	415.8
15°	1636.5	1551.2	1350.5	1102.1	868.6	633.8	443.6	313.8	249.6	229.8	228.6
17.5°	1635.3	1528.4	1271.4	979.2	680.8	415.1	252.7	203.2	189.7	184.7	184.7
20°	1639.0	1509.2	1193.5	837.7	496.1	252.7	188.4	176.1	168.0	163.7	163.7
22.5°	1642.7	1489.5	1118.8	695.0	329.3	184.7	166.2	155.7	146.4	141.5	139.0
25°	1645.1	1467.8	1036.0	551.7	215.0	160.6	145.8	132.2	121.1	114.9	114.9
27.5°	1644.5	1441.9	952.6	411.4	166.8	142.7	124.8	110.6	99.5	92.7	93.3
30°	1639.6	1413.5	866.1	287.3	145.8	124.8	106.9	92.0	80.9	75.4	74.8
32.5°	1635.9	1383.2	766.0	202.0	131.0	109.3	90.8	76.6	67.3	63.0	62.4
35°	1631.5	1353.5	670.9	153.8	118.0	94.5	76.6	64.9	57.5	53.7	53.7
37.5°	1632.8	1322.7	567.7	132.2	105.0	82.2	65.5	55.6	49.4	45.7	45.1
40°	1651.9	1304.1	466.4	119.8	93.3	71.0	56.8	48.2	42.0	38.3	37.7
42.5°	1699.5	1304.7	369.4	110.6	82.8	60.5	49.4	41.4	35.8	31.5	30.9
45°	1794.6	1330.7	283.6	100.7	71.7	52.5	42.6	35.2	29.7	25.9	25.3
47.5°	1950.3	1407.9	215.0	92.0	62.4	45.7	36.4	29.7	24.7	21.6	21.0
50°	2198.1	1547.5	169.3	81.5	52.5	39.5	30.9	24.7	20.4	17.3	16.7
52.5°	2495.8	1757.0	145.2	72.3	45.1	34.6	26.6	20.4	16.7	14.2	13.6
55°	2838.1	2007.2	134.1	63.0	38.3	29.7	21.6	16.7	13.6	11.7	10.5
57.5°	3151.9	2232.6	133.4	53.7	32.7	25.3	17.9	14.2	11.7	9.3	8.6
60°	3457.7	2421.1	125.4	44.5	28.4	21.0	15.4	11.7	9.9	8.0	7.4
62.5°	3735.1	2574.3	105.0	35.8	24.1	17.3	13.0	10.5	8.6	6.8	6.8
65°	4083.5	2769.5	80.3	29.0	19.8	14.2	11.1	9.3	8.0	6.2	6.2
67.5°	4443.7	2872.7	57.5	24.1	16.1	12.4	9.9	8.6	6.8	5.6	5.6
70°	4024.8	2427.2	41.4	19.8	13.6	10.5	8.6	8.0	6.8	5.6	4.9
72.5°	3143.2	1750.2	30.9	15.4	11.7	9.9	8.0	7.4	6.2	4.9	4.9
75°	2330.9	1020.6	23.5	12.4	9.3	8.0	8.0	7.4	6.2	4.9	4.3
77.5°	1267.1	355.8	17.9	9.9	7.4	6.2	6.8	6.8	5.6	4.3	3.7
80°	335.5	97.6	12.4	7.4	6.2	4.9	4.9	6.2	4.9	3.7	3.7
82.5°	97.6	28.4	8.6	6.2	4.9	4.3	4.3	4.3	3.7	3.1	2.5
85°	47.6	10.5	6.2	4.9	4.3	3.7	3.1	3.1	2.5	1.9	1.9
87.5°	21.0	4.3	4.9	4.3	4.3	3.1	2.5	1.9	1.9	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)