

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: P637398

Luminaire Tested: GWS-SA4C-760-U-T3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637398  
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-SA4C-760-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) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

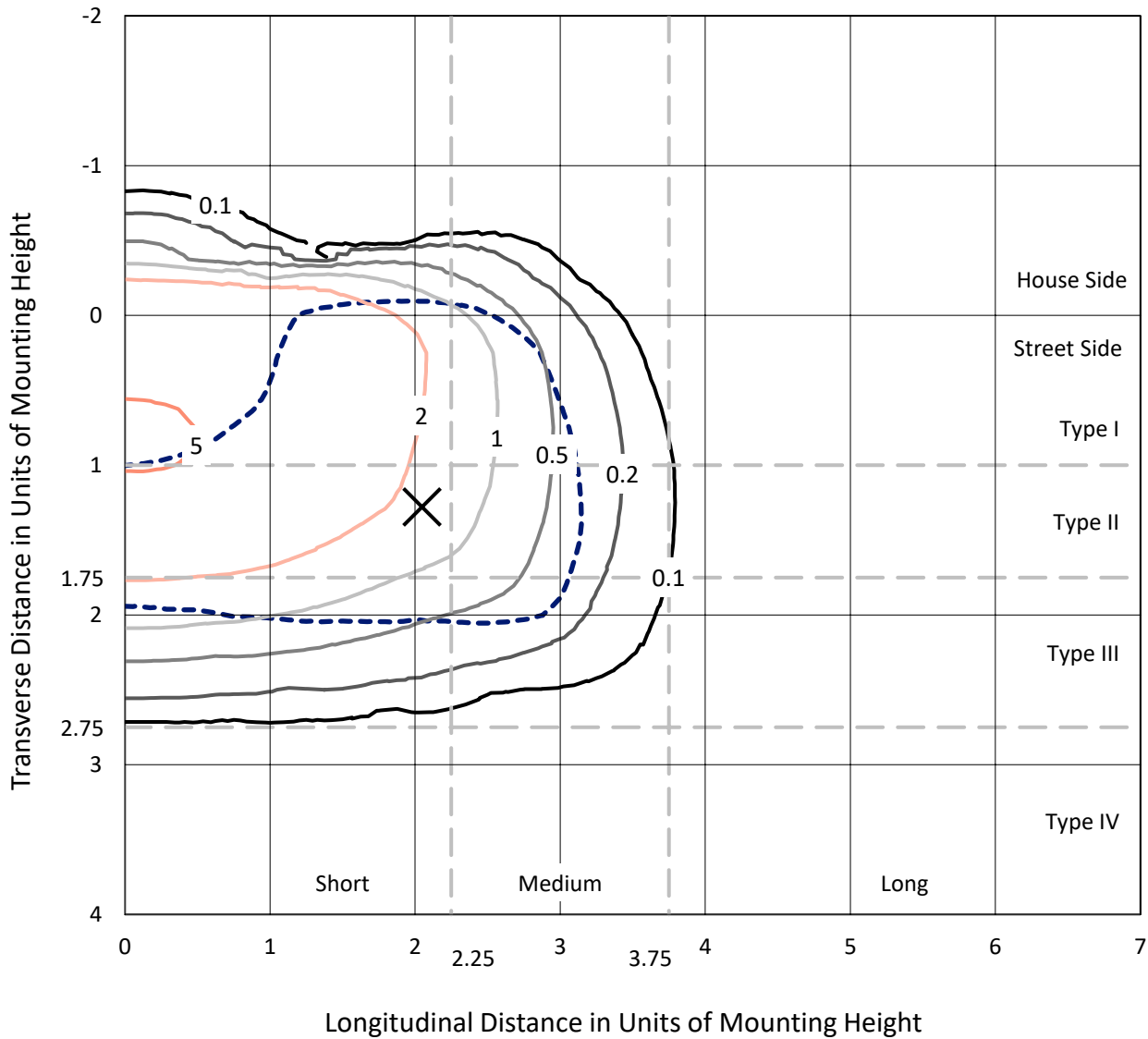
Lumens per Lamp: N/A  
Luminaire Lumens: 14377.8 lumens  
Efficiency: N/A  
Efficacy: 111.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): 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

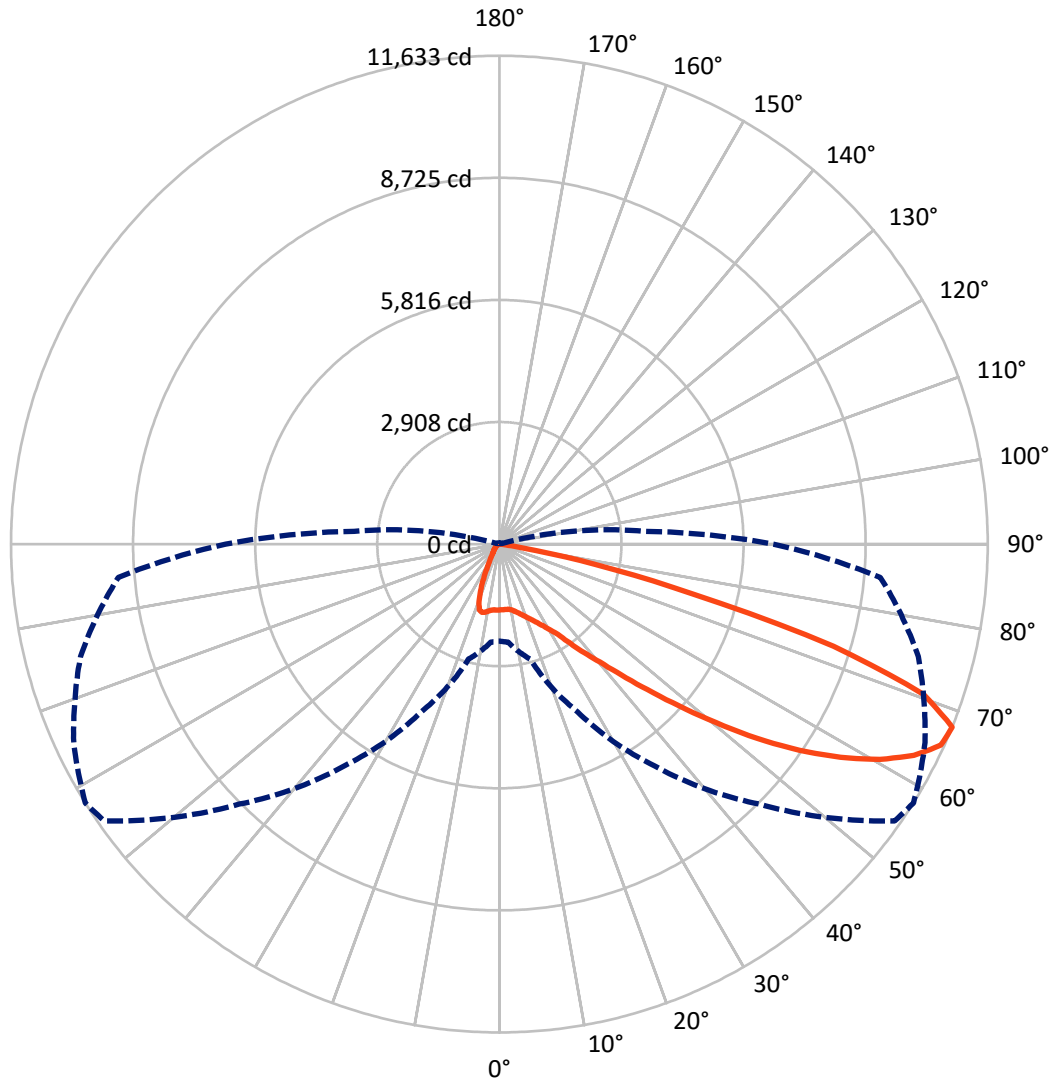
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.5 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	1568.6	0.0	1568.6
	% Fixture	10.9	0.0	10.9
<b>Street Side</b>	Lumens	12809.2	0.0	12809.2
	% Fixture	89.1	0.0	89.1
<b>Total</b>	Lumens	14377.8	0.0	14377.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.2	1.0
10°-20°	413.2	2.9
20°-30°	721.3	5.0
30°-40°	1288.2	9.0
40°-50°	2354.5	16.4
50°-60°	3915.8	27.2
60°-70°	4253.2	29.6
70°-80°	1248.8	8.7
80°-90°	35.6	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°	14377.8	100.0
0°-180°	14377.8	100.0

**Coefficient of Utilization**



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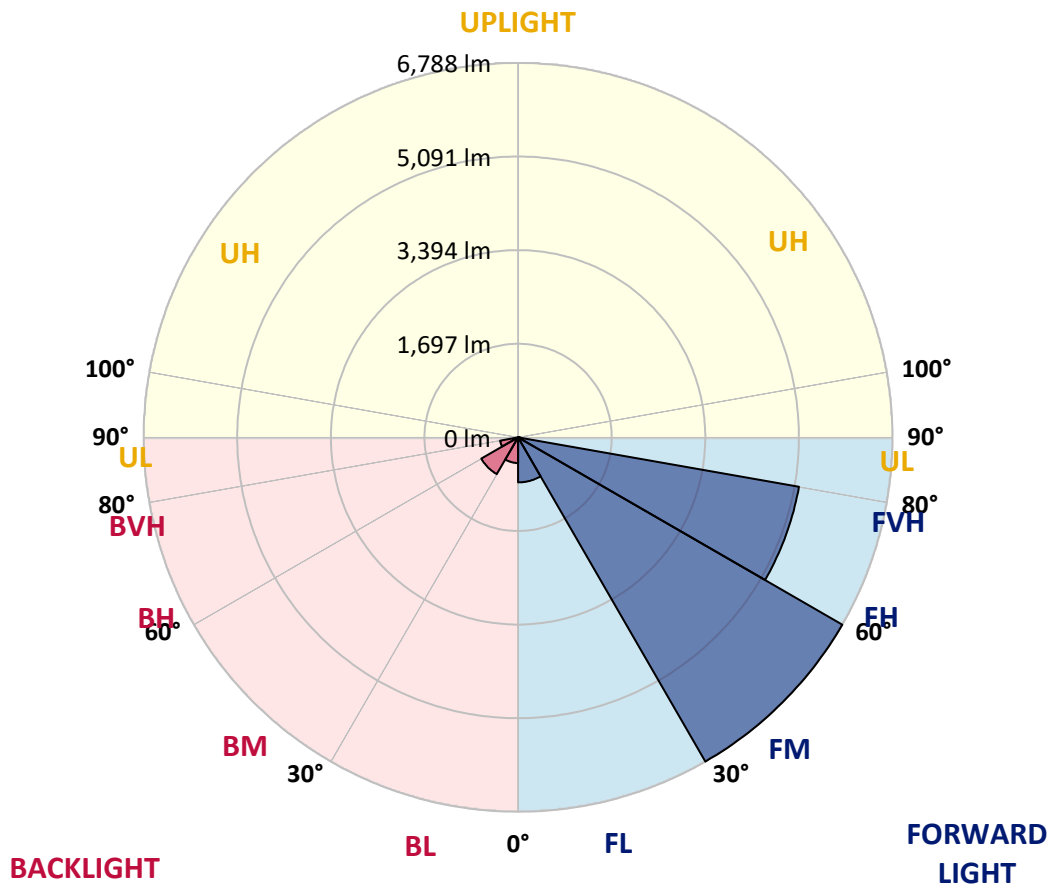
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	816.4	5.7			
FM (30°-60°)	6788.1	47.2			
FH (60°-80°)	5170.9	36.0			G3/7500
FVH (80°-90°)	33.8	0.2			G1/100
BL (0°-30°)	465.3	3.2	B1/500		
BM (30°-60°)	770.4	5.4	B1/1000		
BH (60°-80°)	331.1	2.3	B1/500		G1/500
BVH (80°-90°)	1.7	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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1566.8	1566.8	1566.8	1566.8	1566.8	1566.8	1566.8	1566.8	1566.8	1566.8	1566.8
2.5°	1537.3	1534.5	1534.5	1545.7	1547.1	1552.7	1565.3	1566.8	1573.8	1571.0	1561.1
5°	1457.2	1458.7	1467.1	1486.7	1503.6	1524.6	1555.5	1562.5	1578.0	1586.4	1580.8
7.5°	1382.8	1384.2	1396.9	1427.8	1460.1	1502.2	1552.7	1566.8	1597.6	1620.1	1621.5
10°	1354.8	1353.4	1366.0	1401.1	1443.2	1502.2	1575.2	1593.4	1639.8	1679.1	1686.1
12.5°	1363.2	1361.8	1374.4	1406.7	1453.0	1527.4	1614.5	1639.8	1698.7	1759.1	1771.7
15°	1396.9	1395.5	1403.9	1430.6	1481.1	1558.3	1665.0	1702.9	1777.3	1850.3	1870.0
17.5°	1498.0	1490.9	1482.5	1485.3	1514.8	1594.8	1729.6	1775.9	1868.6	1955.6	1972.5
20°	1677.7	1659.4	1636.9	1607.5	1593.4	1648.2	1804.0	1857.4	1969.7	2069.3	2072.2
22.5°	1948.6	1941.6	1889.6	1804.0	1743.6	1745.0	1891.1	1952.8	2090.4	2199.9	2184.5
25°	2326.3	2322.0	2242.0	2101.6	1944.4	1891.1	2002.0	2065.1	2233.6	2350.1	2301.0
27.5°	2795.2	2765.7	2671.6	2482.1	2247.6	2080.6	2142.3	2198.5	2385.2	2494.7	2402.1
30°	3203.7	3205.1	3116.7	2918.7	2654.8	2365.6	2313.6	2362.8	2524.2	2639.3	2527.0
32.5°	3596.8	3609.4	3512.6	3334.3	3045.1	2737.6	2559.3	2567.7	2702.5	2827.5	2691.3
35°	3961.8	3971.6	3904.2	3752.6	3483.1	3126.5	2901.9	2897.6	2970.6	3098.4	2920.1
37.5°	4370.3	4380.2	4314.2	4178.0	3925.3	3571.5	3290.7	3285.1	3314.6	3418.5	3214.9
40°	4805.5	4823.8	4750.8	4635.7	4394.2	4095.2	3742.8	3692.3	3662.8	3784.9	3596.8
42.5°	5246.4	5274.4	5249.2	5134.1	4927.7	4680.6	4329.6	4251.0	4187.8	4340.9	4141.5
45°	5793.9	5827.6	5816.4	5727.9	5567.9	5367.1	5035.8	4944.5	4915.0	5056.8	4819.6
47.5°	6320.4	6356.9	6397.6	6377.9	6264.2	6171.5	5803.7	5751.8	5743.3	5895.0	5527.1
50°	6712.0	6745.7	6901.6	7013.9	7091.1	7071.4	6752.8	6675.5	6662.9	6759.8	6274.0
52.5°	6992.8	7025.1	7239.9	7590.9	7874.5	8028.9	7707.4	7690.6	7621.8	7588.1	6973.2
55°	7210.4	7255.3	7481.4	8012.0	8583.4	8926.0	8725.2	8664.9	8488.0	8294.2	7621.8
57.5°	7253.9	7272.2	7590.9	8306.9	9133.8	9688.3	9688.3	9583.0	9241.9	8973.7	8371.4
60°	6863.7	6919.8	7350.8	8283.0	9369.6	10186.7	10487.1	10414.1	9953.6	9623.7	9093.1
62.5°	5997.5	6060.6	6585.7	7711.6	9133.8	10289.2	11092.2	11081.0	10561.5	10161.4	9691.1
65°	4599.2	4645.5	5103.2	6450.9	8137.0	9894.7	11524.6	11555.5	11041.7	10516.6	9897.5
67.5°	2310.8	2343.1	2837.3	4406.8	6449.5	8758.9	11495.1	11632.7	11187.7	10328.5	9109.9
70°	807.2	839.5	1072.6	1891.1	3925.3	6688.2	10501.2	10725.8	10329.9	8816.5	6720.5
72.5°	276.6	292.0	445.0	701.9	1527.4	3964.6	7985.4	8323.7	7614.7	5918.8	3862.1
75°	157.2	167.1	238.7	380.5	640.2	1304.2	4530.4	4738.2	4439.1	3226.2	1589.2
77.5°	106.7	115.1	148.8	216.2	353.8	419.8	1847.5	2326.3	2028.6	1052.9	405.7
80°	63.2	68.8	91.3	127.8	181.1	162.9	395.9	526.5	678.1	314.5	122.1
82.5°	29.5	33.7	59.0	84.2	91.3	68.8	116.5	141.8	190.9	154.4	50.5
85°	0.0	0.0	19.7	35.1	33.7	19.7	32.3	35.1	51.9	77.2	19.7
87.5°	0.0	0.0	0.0	0.0	0.0	1.4	2.8	4.2	8.4	15.4	8.4
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°	1566.8	1566.8	1566.8	1566.8	1566.8	1566.8	1566.8	1566.8	1566.8	1566.8	1566.8
2.5°	1572.4	1562.5	1573.8	1568.2	1573.8	1572.4	1561.1	1554.1	1554.1	1541.5	1537.3
5°	1592.0	1582.2	1585.0	1572.4	1569.6	1562.5	1548.5	1542.9	1542.9	1530.2	1526.0
7.5°	1635.5	1620.1	1617.3	1592.0	1580.8	1561.1	1535.9	1526.0	1524.6	1512.0	1507.8
10°	1704.3	1686.1	1673.4	1641.2	1608.9	1569.6	1516.2	1471.3	1446.0	1412.3	1409.5
12.5°	1788.6	1766.1	1746.4	1697.3	1644.0	1555.5	1398.3	1234.0	1132.9	1052.9	1058.5
15°	1882.6	1861.6	1830.7	1756.3	1646.8	1416.5	1088.0	835.3	711.8	645.8	643.0
17.5°	1985.1	1954.2	1903.7	1802.6	1558.3	1082.4	707.6	499.8	435.2	412.7	407.1
20°	2080.6	2042.7	1979.5	1812.4	1302.8	732.8	442.2	387.5	376.2	369.2	369.2
22.5°	2181.7	2133.9	2039.9	1736.6	968.7	468.9	376.2	363.6	355.2	345.4	344.0
25°	2284.1	2222.4	2094.6	1538.7	634.6	369.2	352.4	338.3	322.9	307.5	303.2
27.5°	2371.2	2291.2	2136.7	1243.9	407.1	332.7	321.5	297.6	276.6	259.7	256.9
30°	2475.1	2372.6	2155.0	909.7	320.1	293.4	276.6	251.3	226.0	209.2	203.6
32.5°	2614.1	2501.7	2126.9	592.4	283.6	258.3	231.6	202.2	176.9	158.6	155.8
35°	2830.3	2696.9	1997.7	377.6	256.9	223.2	190.9	160.0	139.0	124.9	122.1
37.5°	3094.2	2970.6	1785.8	283.6	230.2	193.7	155.8	126.4	110.9	101.1	98.3
40°	3485.9	3313.2	1523.2	248.5	203.6	164.3	127.8	103.9	92.7	84.2	81.4
42.5°	3994.1	3717.5	1221.4	226.0	178.3	137.6	103.9	85.6	75.8	70.2	68.8
45°	4587.9	4112.0	902.7	203.6	154.4	113.7	85.6	70.2	63.2	59.0	57.6
47.5°	5195.8	4457.4	623.3	179.7	132.0	94.1	71.6	60.4	54.8	49.1	47.7
50°	5844.4	4749.4	425.4	155.8	112.3	77.2	61.8	54.8	47.7	43.5	42.1
52.5°	6320.4	4857.5	296.2	134.8	95.5	66.0	54.8	49.1	43.5	37.9	36.5
55°	6759.8	4854.7	224.6	113.7	81.4	57.6	49.1	43.5	37.9	33.7	32.3
57.5°	7197.8	4816.8	176.9	96.9	70.2	51.9	43.5	37.9	35.1	29.5	28.1
60°	7481.4	4673.6	137.6	81.4	60.4	44.9	37.9	33.7	29.5	25.3	23.9
62.5°	7631.6	4474.2	105.3	64.6	49.1	39.3	33.7	29.5	25.3	21.1	19.7
65°	7428.0	4120.4	82.8	50.5	37.9	33.7	28.1	23.9	19.7	15.4	14.0
67.5°	6525.3	3474.6	64.6	40.7	29.5	25.3	23.9	19.7	14.0	11.2	9.8
70°	4611.8	2379.6	50.5	30.9	22.5	19.7	18.3	15.4	11.2	8.4	7.0
72.5°	2531.2	1200.3	36.5	22.5	16.8	15.4	14.0	12.6	9.8	7.0	7.0
75°	974.3	329.9	26.7	15.4	11.2	11.2	9.8	9.8	8.4	5.6	5.6
77.5°	254.1	98.3	16.8	9.8	7.0	7.0	7.0	5.6	5.6	4.2	4.2
80°	81.4	32.3	9.8	7.0	5.6	4.2	4.2	2.8	4.2	2.8	2.8
82.5°	26.7	11.2	5.6	5.6	4.2	2.8	2.8	1.4	1.4	0.0	0.0
85°	9.8	5.6	4.2	2.8	2.8	2.8	1.4	0.0	0.0	0.0	0.0
87.5°	5.6	2.8	2.8	2.8	2.8	1.4	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)