

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: P641688

Luminaire Tested: GWS-SA6B-735-U-T3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641688  
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-SA6B-735-U-T3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

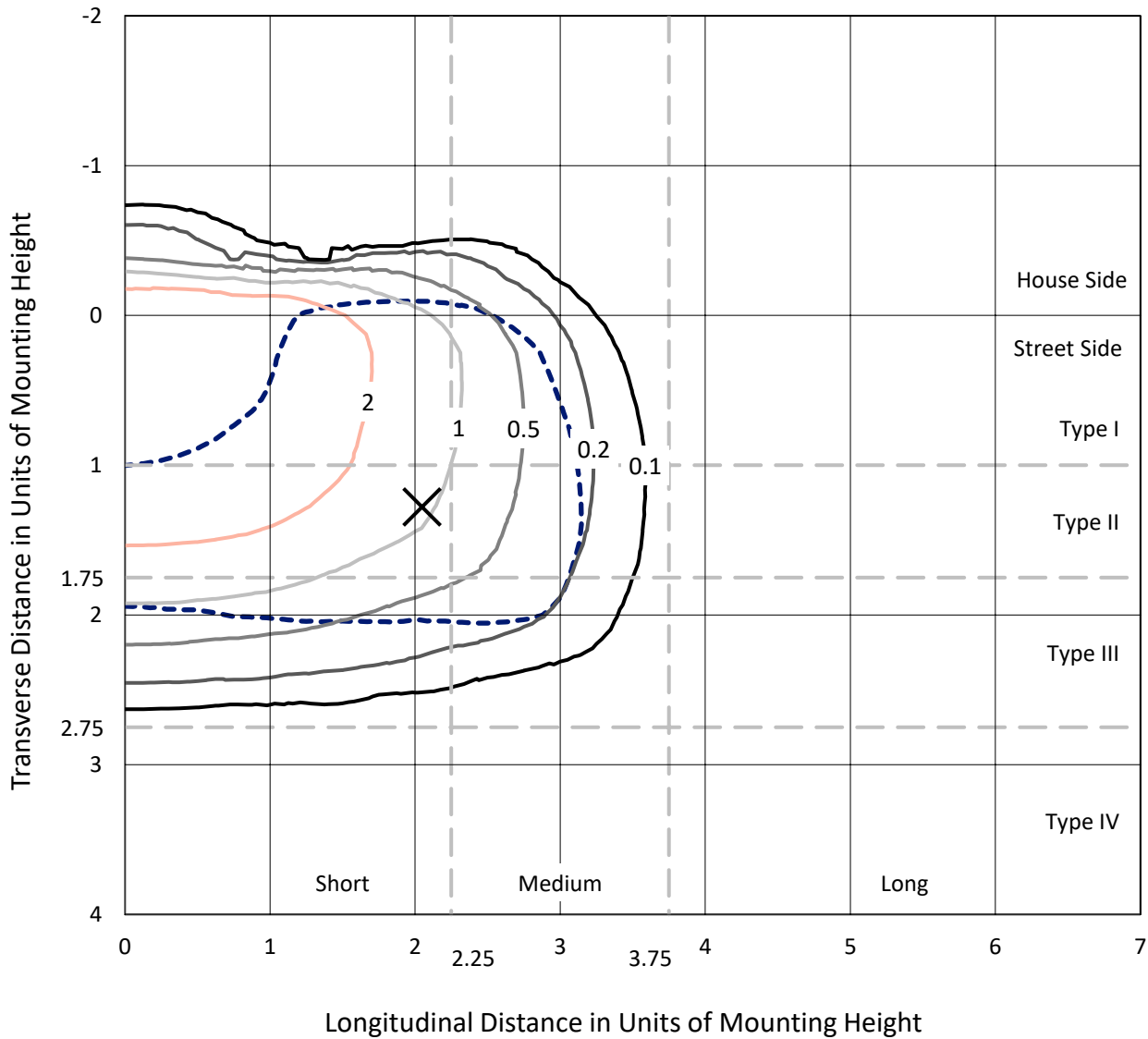
Lumens per Lamp: N/A  
Luminaire Lumens: 15330.8 lumens  
Efficiency: N/A  
Efficacy: 110.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 138.9  
Input Voltage (V): 120  
Input Current (Ain): 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

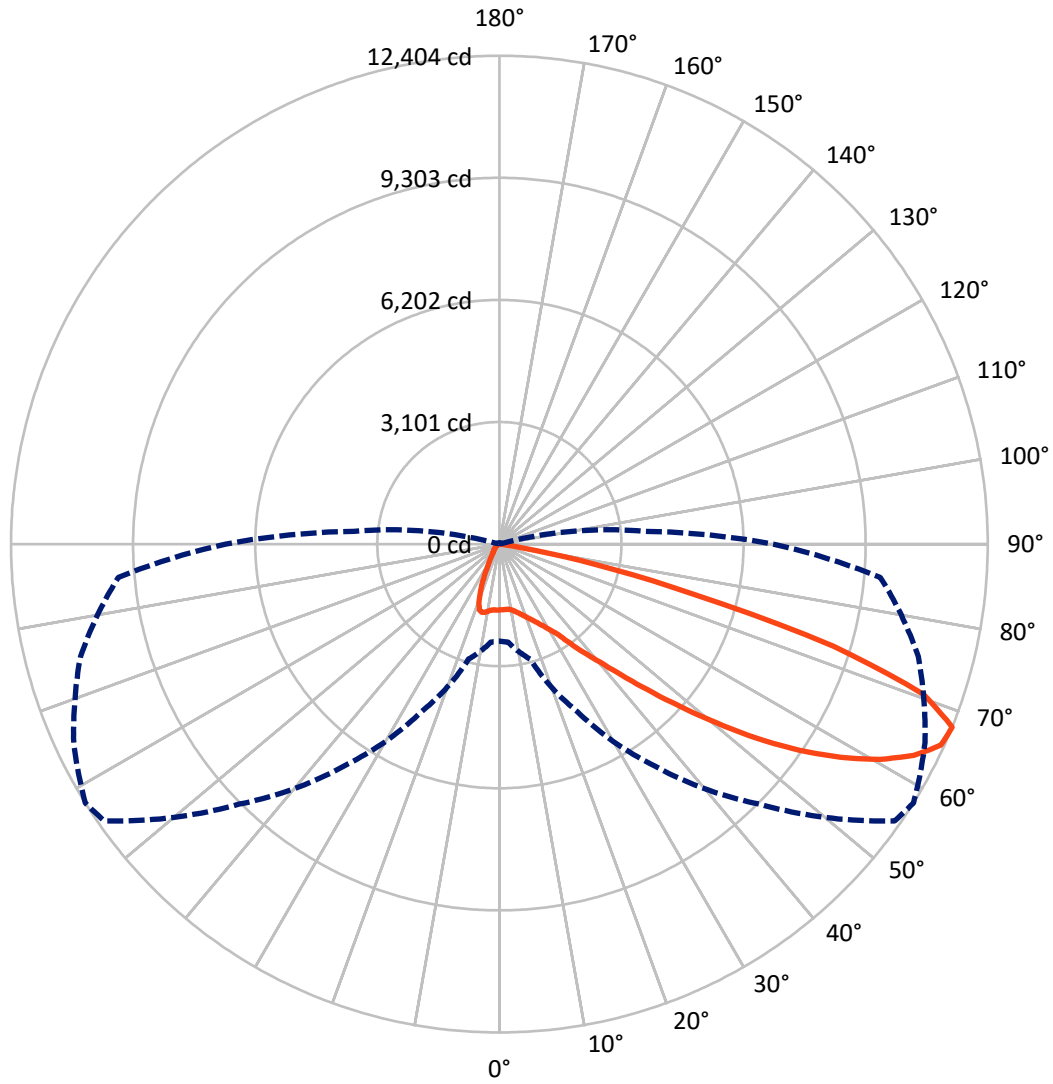
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	1672.6	0.0	1672.6
	% Fixture	10.9	0.0	10.9
<b>Street Side</b>	Lumens	13658.3	0.0	13658.3
	% Fixture	89.1	0.0	89.1
<b>Total</b>	Lumens	15330.8	0.0	15330.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.9	1.0
10°-20°	440.6	2.9
20°-30°	769.1	5.0
30°-40°	1373.5	9.0
40°-50°	2510.6	16.4
50°-60°	4175.4	27.2
60°-70°	4535.2	29.6
70°-80°	1331.6	8.7
80°-90°	37.9	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°	15330.8	100.0
0°-180°	15330.8	100.0

**Coefficient of Utilization**



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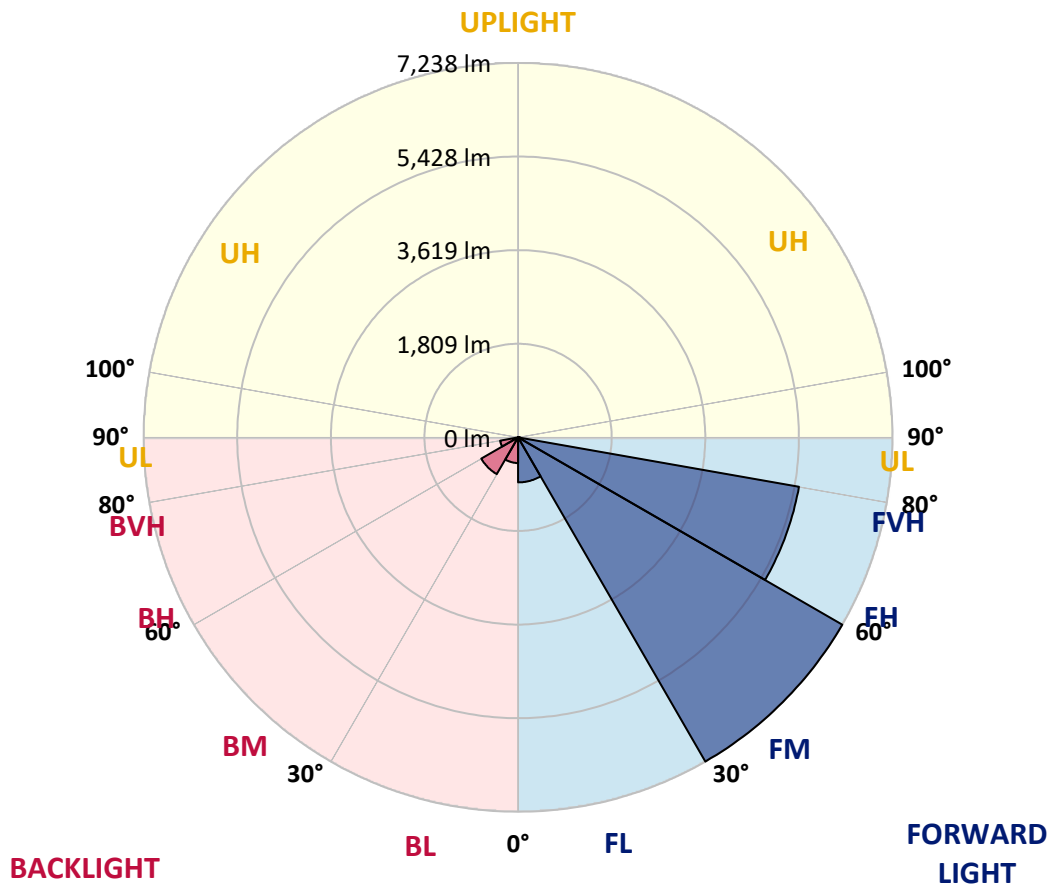
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	870.5	5.7			
FM (30°-60°)	7238.0	47.2			
FH (60°-80°)	5513.7	36.0			G3/7500
FVH (80°-90°)	36.1	0.2			G1/100
BL (0°-30°)	496.1	3.2	B1/500		
BM (30°-60°)	821.5	5.4	B1/1000		
BH (60°-80°)	353.1	2.3	B1/500		G1/500
BVH (80°-90°)	1.9	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°	1670.6	1670.6	1670.6	1670.6	1670.6	1670.6	1670.6	1670.6	1670.6	1670.6	1670.6
2.5°	1639.2	1636.2	1636.2	1648.1	1649.6	1655.6	1669.1	1670.6	1678.1	1675.1	1664.6
5°	1553.8	1555.3	1564.3	1585.3	1603.2	1625.7	1658.6	1666.1	1682.6	1691.6	1685.6
7.5°	1474.5	1476.0	1489.5	1522.4	1556.8	1601.7	1655.6	1670.6	1703.5	1727.5	1729.0
10°	1444.6	1443.1	1456.5	1494.0	1538.9	1601.7	1679.6	1699.0	1748.4	1790.4	1797.8
12.5°	1453.5	1452.0	1465.5	1499.9	1549.3	1628.7	1721.5	1748.4	1811.3	1875.7	1889.2
15°	1489.5	1488.0	1497.0	1525.4	1579.3	1661.6	1775.4	1815.8	1895.1	1973.0	1993.9
17.5°	1597.2	1589.8	1580.8	1583.8	1615.2	1700.5	1844.2	1893.6	1992.4	2085.3	2103.2
20°	1788.9	1769.4	1745.4	1714.0	1699.0	1757.4	1923.6	1980.5	2100.2	2206.5	2209.5
22.5°	2077.8	2070.3	2014.9	1923.6	1859.2	1860.7	2016.4	2082.3	2229.0	2345.7	2329.3
25°	2480.5	2476.0	2390.6	2240.9	2073.3	2016.4	2134.7	2202.0	2381.7	2505.9	2453.5
27.5°	2980.4	2949.0	2848.7	2646.6	2396.6	2218.5	2284.3	2344.2	2543.3	2660.1	2561.3
30°	3416.0	3417.5	3323.2	3112.2	2830.7	2522.4	2467.0	2519.4	2691.5	2814.3	2694.5
32.5°	3835.2	3848.7	3745.4	3555.3	3246.9	2919.1	2728.9	2737.9	2881.6	3014.9	2869.7
35°	4224.4	4234.9	4163.0	4001.4	3713.9	3333.7	3094.2	3089.7	3167.6	3303.8	3113.7
37.5°	4660.0	4670.5	4600.1	4454.9	4185.5	3808.2	3508.9	3502.9	3534.3	3645.1	3428.0
40°	5124.1	5143.5	5065.7	4942.9	4685.5	4366.6	3990.9	3937.0	3905.5	4035.8	3835.2
42.5°	5594.1	5624.1	5597.1	5474.4	5254.3	4990.8	4616.6	4532.8	4465.4	4628.6	4416.0
45°	6177.9	6213.9	6201.9	6107.6	5936.9	5722.9	5369.6	5272.3	5240.8	5392.0	5139.0
47.5°	6739.3	6778.2	6821.6	6800.7	6679.4	6580.6	6188.4	6133.0	6124.0	6285.7	5893.5
50°	7156.9	7192.9	7359.0	7478.8	7561.1	7540.2	7200.3	7118.0	7104.5	7207.8	6689.9
52.5°	7456.3	7490.8	7719.8	8094.0	8396.4	8561.1	8218.3	8200.3	8127.0	8091.0	7435.4
55°	7688.3	7736.3	7977.3	8543.1	9152.4	9517.6	9303.6	9239.2	9050.6	8844.0	8127.0
57.5°	7734.8	7754.2	8094.0	8857.5	9739.2	10330.5	10330.5	10218.2	9854.4	9568.5	8926.3
60°	7318.6	7378.5	7838.0	8832.0	9990.7	10861.9	11182.2	11104.4	10613.4	10261.6	9695.8
62.5°	6395.0	6462.3	7022.2	8222.8	9739.2	10971.2	11827.4	11815.4	11261.6	10834.9	10333.5
65°	4904.0	4953.4	5441.4	6878.5	8676.3	10550.5	12288.5	12321.4	11773.5	11213.7	10553.5
67.5°	2464.0	2498.4	3025.3	4698.9	6877.0	9339.5	12257.0	12403.7	11929.2	11013.1	9713.7
70°	860.7	895.2	1143.7	2016.4	4185.5	7131.5	11197.2	11436.7	11014.6	9400.9	7165.9
72.5°	294.9	311.4	474.5	748.5	1628.7	4227.4	8514.7	8875.4	8119.5	6311.2	4118.1
75°	167.7	178.1	254.5	405.7	682.6	1390.7	4830.7	5052.2	4733.4	3440.0	1694.6
77.5°	113.8	122.8	158.7	230.5	377.2	447.6	1970.0	2480.5	2163.1	1122.7	432.6
80°	67.4	73.4	97.3	136.2	193.1	173.6	422.1	561.4	723.0	335.3	130.2
82.5°	31.4	35.9	62.9	89.8	97.3	73.4	124.2	151.2	203.6	164.7	53.9
85°	0.0	0.0	21.0	37.4	35.9	21.0	34.4	37.4	55.4	82.3	21.0
87.5°	0.0	0.0	0.0	0.0	0.0	1.5	3.0	4.5	9.0	16.5	9.0
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°	1670.6	1670.6	1670.6	1670.6	1670.6	1670.6	1670.6	1670.6	1670.6	1670.6	1670.6
2.5°	1676.6	1666.1	1678.1	1672.1	1678.1	1676.6	1664.6	1657.1	1657.1	1643.7	1639.2
5°	1697.5	1687.1	1690.1	1676.6	1673.6	1666.1	1651.1	1645.2	1645.2	1631.7	1627.2
7.5°	1743.9	1727.5	1724.5	1697.5	1685.6	1664.6	1637.7	1627.2	1625.7	1612.2	1607.7
10°	1817.3	1797.8	1784.4	1749.9	1715.5	1673.6	1616.7	1568.8	1541.9	1505.9	1502.9
12.5°	1907.1	1883.2	1862.2	1809.8	1752.9	1658.6	1491.0	1315.8	1208.0	1122.7	1128.7
15°	2007.4	1985.0	1952.0	1872.7	1755.9	1510.4	1160.1	890.7	759.0	688.6	685.6
17.5°	2116.7	2083.8	2029.9	1922.1	1661.6	1154.2	754.5	532.9	464.1	440.1	434.1
20°	2218.5	2178.1	2110.7	1932.6	1389.2	781.4	471.5	413.2	401.2	393.7	393.7
22.5°	2326.3	2275.4	2175.1	1851.7	1032.9	500.0	401.2	387.7	378.7	368.3	366.8
25°	2435.5	2369.7	2233.5	1640.7	676.6	393.7	375.7	360.8	344.3	327.8	323.3
27.5°	2528.4	2443.0	2278.4	1326.3	434.1	354.8	342.8	317.4	294.9	276.9	273.9
30°	2639.1	2529.9	2297.8	970.0	341.3	312.9	294.9	268.0	241.0	223.0	217.1
32.5°	2787.3	2667.6	2267.9	631.7	302.4	275.4	247.0	215.6	188.6	169.2	166.2
35°	3017.9	2875.6	2130.2	402.7	273.9	238.0	203.6	170.7	148.2	133.2	130.2
37.5°	3299.3	3167.6	1904.1	302.4	245.5	206.6	166.2	134.7	118.3	107.8	104.8
40°	3716.9	3532.8	1624.2	265.0	217.1	175.1	136.2	110.8	98.8	89.8	86.8
42.5°	4258.8	3963.9	1302.3	241.0	190.1	146.7	110.8	91.3	80.8	74.8	73.4
45°	4892.0	4384.6	962.5	217.1	164.7	121.3	91.3	74.8	67.4	62.9	61.4
47.5°	5540.2	4752.8	664.6	191.6	140.7	100.3	76.3	64.4	58.4	52.4	50.9
50°	6231.8	5064.2	453.6	166.2	119.8	82.3	65.9	58.4	50.9	46.4	44.9
52.5°	6739.3	5179.5	315.9	143.7	101.8	70.4	58.4	52.4	46.4	40.4	38.9
55°	7207.8	5176.5	239.5	121.3	86.8	61.4	52.4	46.4	40.4	35.9	34.4
57.5°	7674.9	5136.0	188.6	103.3	74.8	55.4	46.4	40.4	37.4	31.4	29.9
60°	7977.3	4983.4	146.7	86.8	64.4	47.9	40.4	35.9	31.4	26.9	25.4
62.5°	8137.4	4770.8	112.3	68.9	52.4	41.9	35.9	31.4	26.9	22.5	21.0
65°	7920.4	4393.6	88.3	53.9	40.4	35.9	29.9	25.4	21.0	16.5	15.0
67.5°	6957.8	3705.0	68.9	43.4	31.4	26.9	25.4	21.0	15.0	12.0	10.5
70°	4917.5	2537.3	53.9	32.9	24.0	21.0	19.5	16.5	12.0	9.0	7.5
72.5°	2699.0	1279.9	38.9	24.0	18.0	16.5	15.0	13.5	10.5	7.5	7.5
75°	1038.9	351.8	28.4	16.5	12.0	12.0	10.5	10.5	9.0	6.0	6.0
77.5°	270.9	104.8	18.0	10.5	7.5	7.5	7.5	6.0	6.0	4.5	4.5
80°	86.8	34.4	10.5	7.5	6.0	4.5	4.5	3.0	4.5	3.0	3.0
82.5°	28.4	12.0	6.0	6.0	4.5	3.0	3.0	1.5	1.5	0.0	0.0
85°	10.5	6.0	4.5	3.0	3.0	3.0	1.5	0.0	0.0	0.0	0.0
87.5°	6.0	3.0	3.0	3.0	3.0	1.5	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)