

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: INVUE

Report Number: P677181

Luminaire Tested: **CCW-SA-2E-827-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677181
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-827-U-SL4-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
SL4 distribution lens and House Side Shield
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

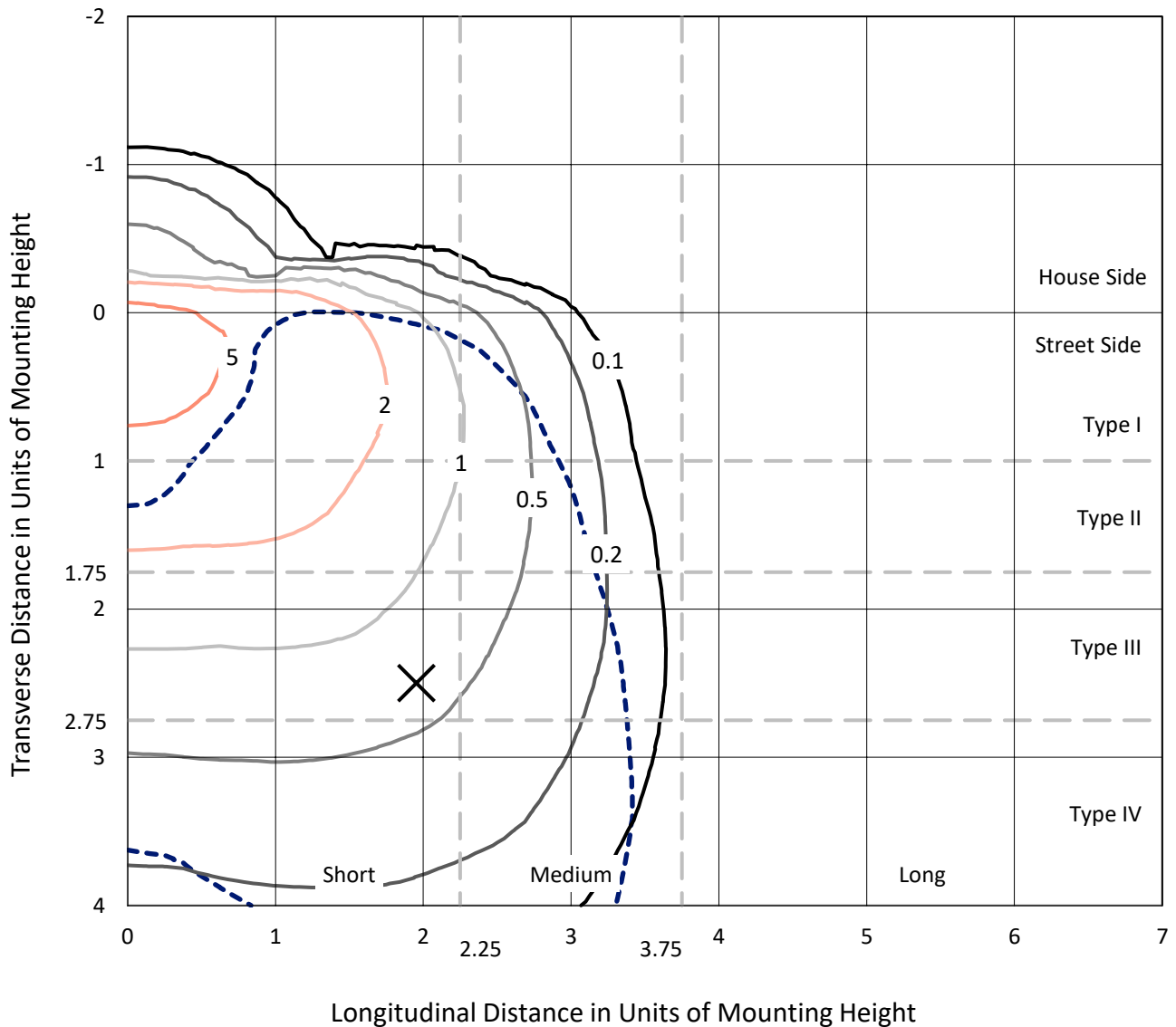
Lumens per Lamp: N/A
Luminaire Lumens: 8302.4 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 106.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

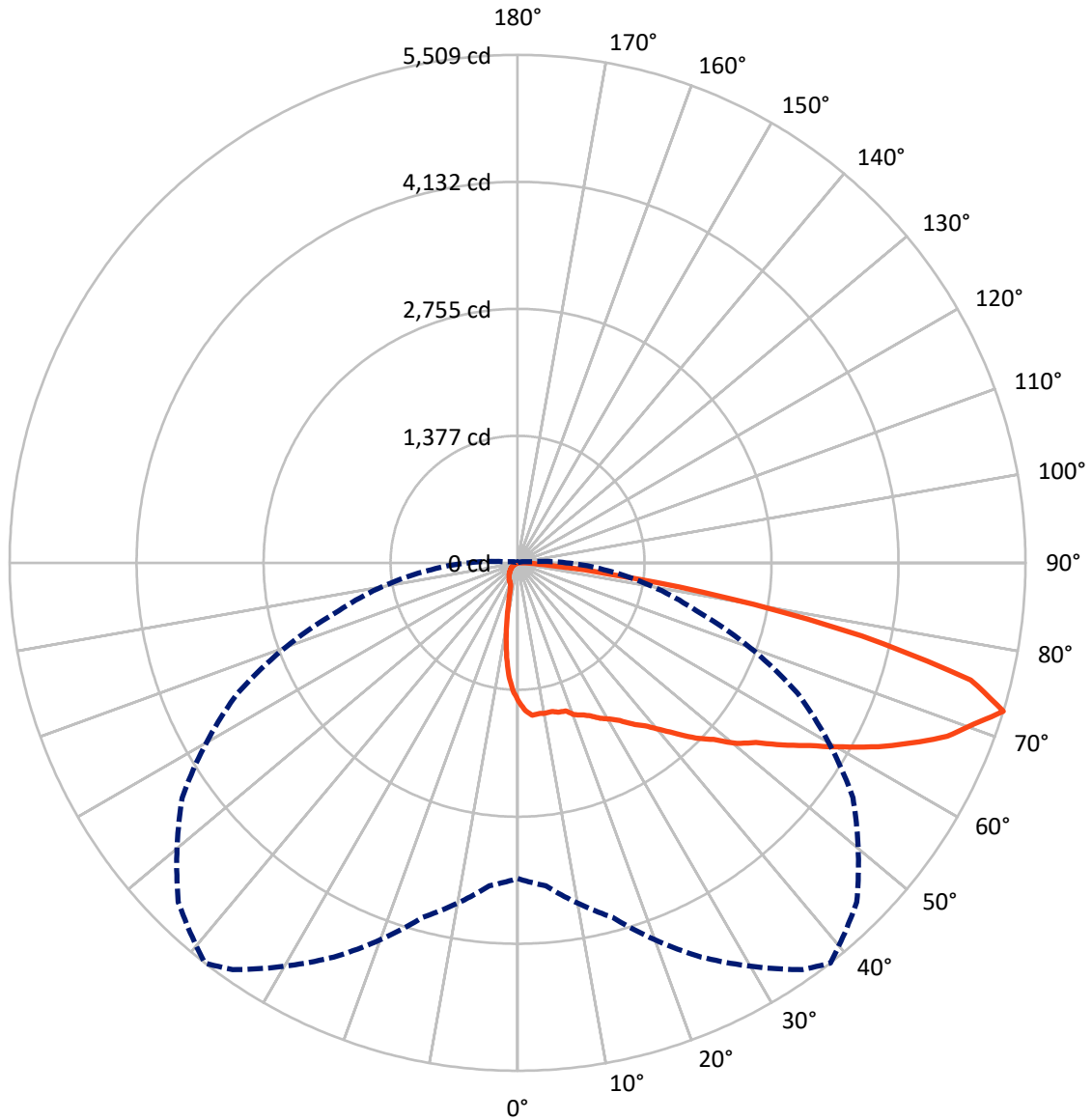
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	695.3	0.0	695.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	7607.1	0.0	7607.1
	% Fixture	91.6	0.0	91.6
Total	Lumens	8302.4	0.0	8302.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.4	1.6
10°-20°	321.8	3.9
20°-30°	515.8	6.2
30°-40°	778.8	9.4
40°-50°	1185.3	14.3
50°-60°	1668.7	20.1
60°-70°	2038.3	24.6
70°-80°	1480.1	17.8
80°-90°	182.3	2.2
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°	8302.4	100.0
0°-180°	8302.4	100.0

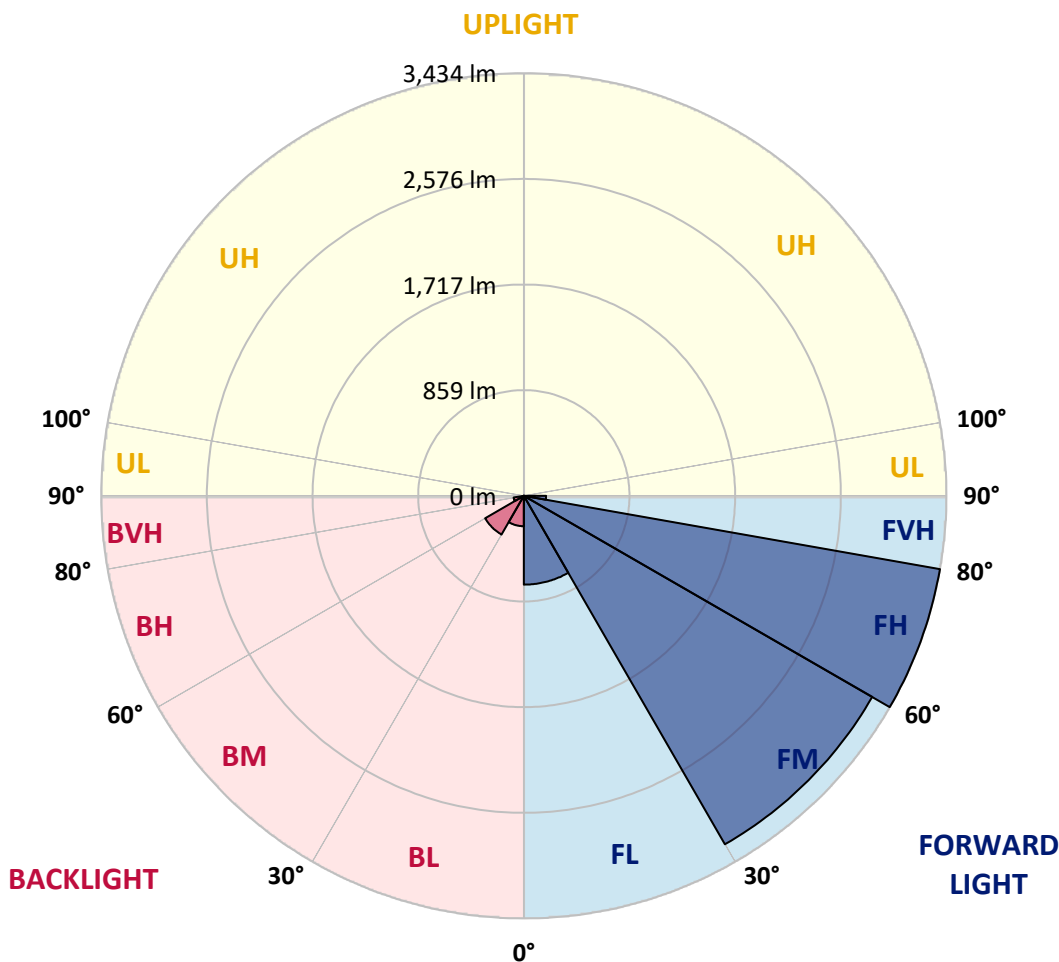


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	722.1	8.7			
FM (30°-60°)	3269.5	39.4			
FH (60°-80°)	3434.1	41.4			G2/5000
FVH (80°-90°)	181.3	2.2			G2/225
BL (0°-30°)	246.9	3.0	B1/500		
BM (30°-60°)	363.2	4.4	B1/1000		
BH (60°-80°)	84.3	1.0	B0/110		G0/110
BVH (80°-90°)	0.9	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-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1501.4	1501.4	1501.4	1501.4	1501.4	1501.4	1501.4	1501.4	1501.4	1501.4	1501.4
2.5°	1649.4	1649.4	1665.0	1649.4	1643.6	1606.6	1608.5	1589.0	1569.6	1542.3	1517.0
5°	1668.9	1682.5	1692.2	1678.6	1657.2	1661.1	1674.7	1637.7	1585.1	1552.0	1495.6
7.5°	1661.1	1690.3	1682.5	1674.7	1661.1	1651.4	1631.9	1616.3	1591.0	1559.8	1493.6
10°	1655.2	1665.0	1666.9	1661.1	1631.9	1659.1	1637.7	1612.4	1581.2	1544.2	1462.5
12.5°	1633.8	1633.8	1651.4	1637.7	1641.6	1655.2	1645.5	1639.7	1606.6	1575.4	1503.4
15°	1610.5	1618.2	1645.5	1666.9	1686.4	1680.6	1674.7	1657.2	1628.0	1592.9	1517.0
17.5°	1616.3	1620.2	1663.0	1702.0	1692.2	1688.4	1719.5	1682.5	1653.3	1614.4	1528.7
20°	1637.7	1649.4	1698.1	1748.7	1758.5	1758.5	1746.8	1725.4	1684.5	1631.9	1550.1
22.5°	1659.1	1663.0	1742.9	1807.1	1816.9	1791.6	1801.3	1739.0	1700.0	1670.8	1571.5
25°	1740.9	1733.1	1818.8	1869.5	1863.6	1838.3	1828.6	1774.0	1758.5	1705.9	1618.2
27.5°	1851.9	1818.8	1902.6	1933.7	1902.6	1910.4	1883.1	1824.7	1791.6	1760.4	1639.7
30°	1920.1	1939.6	1984.3	2015.5	1962.9	1964.9	1951.2	1887.0	1836.4	1844.1	1711.7
32.5°	2025.2	2038.9	2072.0	2085.6	2044.7	2040.8	2027.2	1976.6	1939.6	1931.8	1809.1
35°	2138.2	2163.5	2165.5	2169.3	2132.3	2147.9	2128.5	2056.4	2075.9	2089.5	1925.9
37.5°	2249.2	2225.8	2264.8	2282.3	2241.4	2241.4	2247.2	2198.6	2233.6	2274.5	2091.5
40°	2292.0	2301.8	2369.9	2356.3	2405.0	2375.8	2397.2	2385.5	2414.7	2508.2	2325.1
42.5°	2336.8	2348.5	2440.0	2465.3	2523.8	2533.5	2564.7	2566.6	2652.3	2806.1	2549.1
45°	2422.5	2403.0	2527.7	2590.0	2685.4	2712.7	2749.7	2780.8	2915.2	3096.3	2804.2
47.5°	2500.4	2473.1	2615.3	2739.9	2856.8	2862.6	2963.9	2997.0	3156.7	3363.1	3057.3
50°	2609.4	2619.2	2679.6	2893.8	3012.6	3080.7	3150.8	3259.9	3437.1	3657.1	3240.4
52.5°	2722.4	2712.7	2813.9	3024.2	3211.2	3236.5	3394.2	3516.9	3709.7	3875.2	3322.2
55°	2860.7	2872.3	2911.3	3187.8	3425.4	3485.8	3663.0	3791.5	4001.8	3968.7	3349.4
57.5°	2998.9	2987.2	3074.9	3370.9	3694.1	3738.9	3974.5	4050.5	4192.6	4031.0	3281.3
60°	3135.2	3156.7	3193.7	3577.3	3988.2	4054.4	4241.3	4280.3	4311.4	4060.2	3228.7
62.5°	3291.0	3240.4	3355.3	3795.4	4253.0	4391.3	4539.3	4385.4	4358.2	4007.6	3108.0
65°	3368.9	3384.5	3534.4	4044.6	4605.5	4706.7	4726.2	4527.6	4387.4	3890.8	2995.0
67.5°	3489.7	3511.1	3701.9	4299.7	4967.7	5024.2	4954.1	4656.1	4362.1	3738.9	2588.0
70°	3505.2	3557.8	3925.9	4566.5	5195.5	5244.2	5189.7	4741.8	4157.6	3141.1	1916.2
72.5°	3423.4	3516.9	3980.4	4718.4	5386.4	5509.1	5203.3	4440.0	3351.4	2003.8	981.5
75°	2586.1	2664.0	3643.5	4492.5	5047.5	5076.7	4568.5	3388.4	1908.4	683.5	251.2
77.5°	1339.8	1474.1	2432.2	3433.2	3846.0	3814.9	3180.0	1996.0	656.3	179.2	101.3
80°	769.2	802.3	1063.3	1927.9	2418.6	2299.8	1758.5	860.7	288.2	89.6	66.2
82.5°	379.7	426.5	572.5	862.7	1209.3	995.1	660.2	516.0	161.6	48.7	58.4
85°	81.8	85.7	292.1	412.8	490.7	323.3	225.9	434.3	58.4	29.2	56.5
87.5°	58.4	56.5	81.8	185.0	136.3	83.7	134.4	227.8	13.6	13.6	11.7
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°	1501.4	1501.4	1501.4	1501.4	1501.4	1501.4	1501.4	1501.4	1501.4	1501.4	1501.4
2.5°	1501.4	1483.9	1464.4	1427.4	1417.7	1411.8	1378.7	1376.8	1370.9	1357.3	1351.5
5°	1460.5	1431.3	1394.3	1355.4	1324.2	1267.7	1199.6	1164.5	1121.7	1123.6	1110.0
7.5°	1454.7	1400.1	1347.6	1265.8	1166.5	1061.3	956.1	888.0	839.3	810.1	815.9
10°	1427.4	1386.5	1300.8	1148.9	989.3	829.6	695.2	593.9	535.5	490.7	504.4
12.5°	1439.1	1359.3	1238.5	1036.0	808.2	611.5	444.0	346.6	303.8	288.2	292.1
15°	1431.3	1359.3	1201.5	913.3	634.8	414.8	288.2	257.1	249.3	249.3	245.4
17.5°	1454.7	1374.8	1139.2	792.6	455.7	276.5	247.3	241.5	235.6	235.6	235.6
20°	1487.8	1382.6	1096.4	658.2	321.3	243.4	231.7	227.8	225.9	225.9	223.9
22.5°	1489.7	1374.8	1016.5	510.2	247.3	229.8	220.1	218.1	218.1	214.2	214.2
25°	1501.4	1382.6	930.8	383.6	229.8	216.2	208.4	206.4	208.4	206.4	204.5
27.5°	1530.6	1396.2	845.1	280.4	216.2	204.5	198.6	196.7	196.7	196.7	192.8
30°	1567.6	1396.2	749.7	231.7	204.5	192.8	186.9	185.0	183.1	183.1	183.1
32.5°	1645.5	1441.0	632.9	206.4	188.9	179.2	173.3	173.3	171.4	171.4	169.4
35°	1742.9	1472.2	514.1	190.8	175.3	165.5	159.7	159.7	157.7	157.7	155.8
37.5°	1863.6	1550.1	393.4	179.2	161.6	151.9	146.1	146.1	146.1	144.1	144.1
40°	2035.0	1629.9	292.1	163.6	148.0	138.3	134.4	132.4	130.5	130.5	126.6
42.5°	2218.0	1752.6	218.1	151.9	136.3	128.5	122.7	116.8	116.8	111.0	111.0
45°	2416.7	1859.7	177.2	138.3	124.6	114.9	109.1	105.2	99.3	95.4	95.4
47.5°	2611.4	1925.9	155.8	122.7	112.9	105.2	99.3	91.5	83.7	81.8	79.8
50°	2769.1	1945.4	138.3	111.0	103.2	95.4	87.6	77.9	70.1	66.2	64.3
52.5°	2769.1	1838.3	124.6	99.3	93.5	85.7	75.9	64.3	54.5	50.6	48.7
55°	2769.1	1668.9	111.0	91.5	83.7	77.9	64.3	52.6	42.8	37.0	35.1
57.5°	2728.2	1464.4	99.3	81.8	74.0	66.2	54.5	40.9	31.2	25.3	25.3
60°	2615.3	1250.2	85.7	72.1	64.3	54.5	42.8	29.2	19.5	13.6	13.6
62.5°	2471.2	995.1	74.0	60.4	52.6	44.8	33.1	19.5	7.8	3.9	3.9
65°	2220.0	734.2	64.3	50.6	40.9	33.1	21.4	7.8	0.0	0.0	0.0
67.5°	1832.5	490.7	50.6	40.9	35.1	23.4	13.6	1.9	0.0	0.0	0.0
70°	1289.1	278.5	38.9	29.2	25.3	15.6	3.9	0.0	0.0	0.0	0.0
72.5°	529.7	122.7	27.3	21.4	17.5	7.8	0.0	0.0	0.0	0.0	0.0
75°	144.1	54.5	17.5	11.7	9.7	1.9	0.0	0.0	0.0	0.0	0.0
77.5°	83.7	37.0	7.8	3.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	66.2	17.5	3.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	66.2	9.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	56.5	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.8	0.0	0.0	0.0	0.0	0.0	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)