

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: P676914

Luminaire Tested: **CCW-SA-2D-835-U-SL2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676914
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-835-U-SL2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
SL2 distribution lens and House Side Shield
Light Source: (32) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7390.1 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

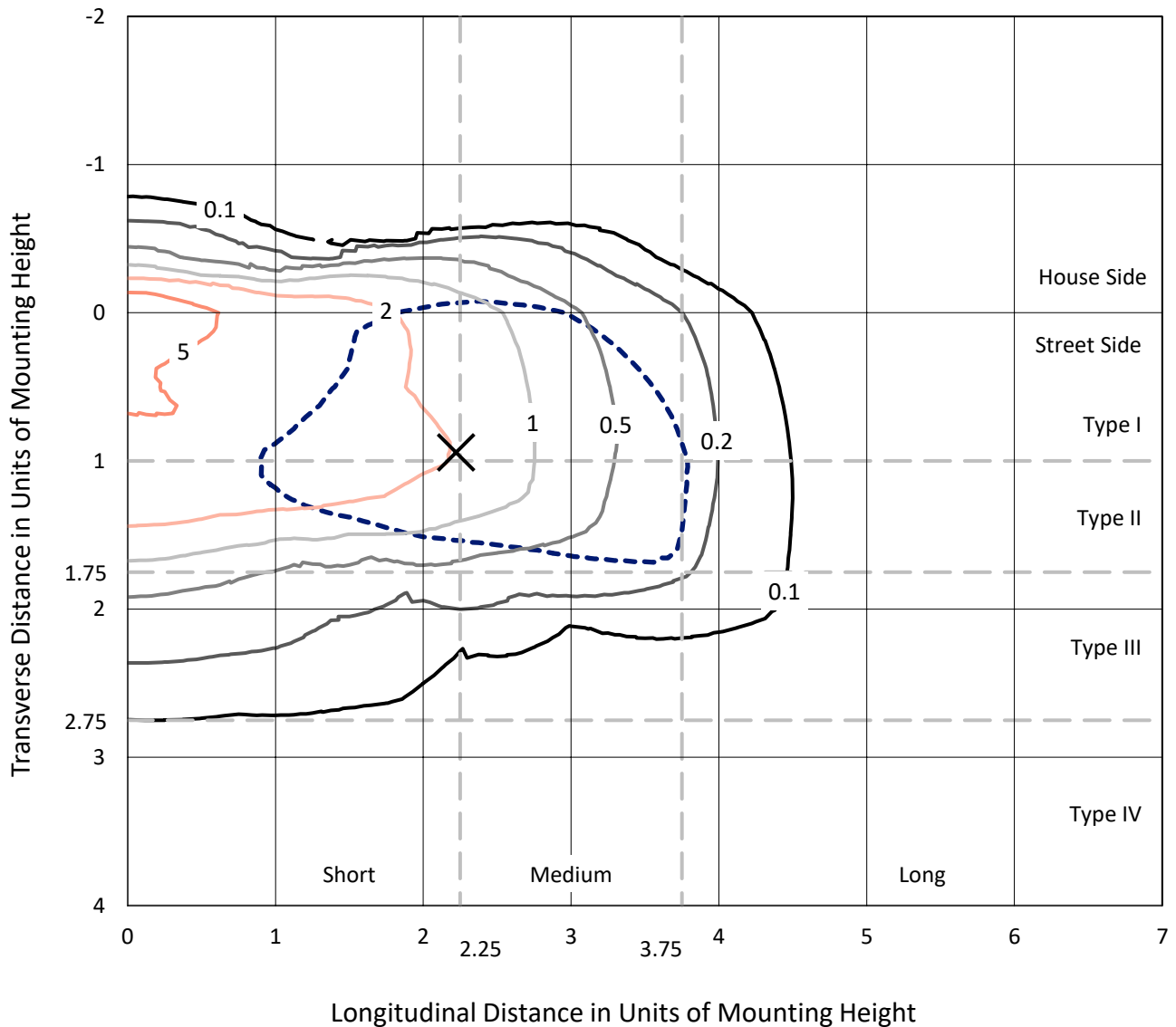
Input Watts (W): 80.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

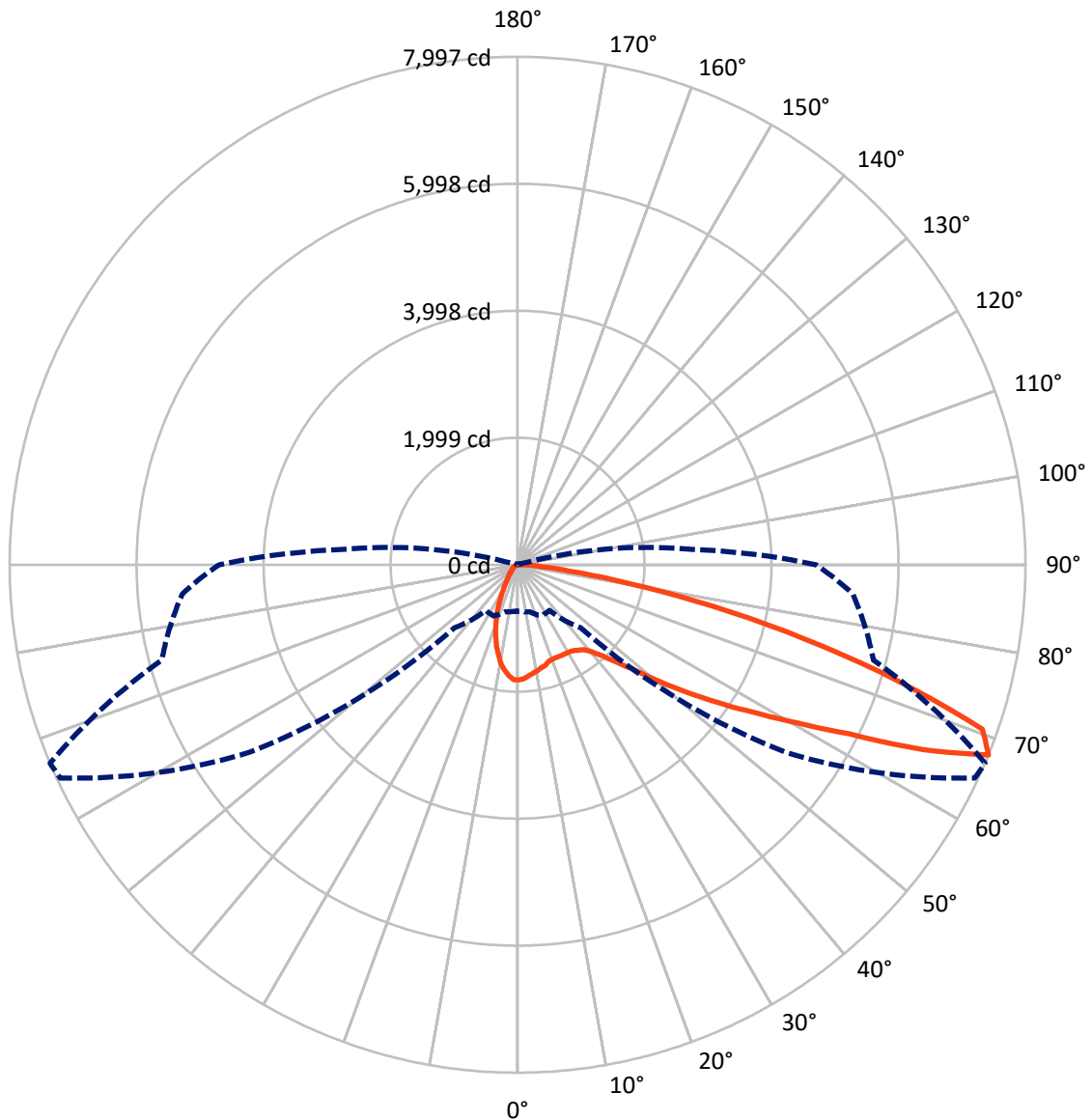
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	930.1	0.0	930.1
	% Fixture	12.6	0.0	12.6
Street Side	Lumens	6460.1	0.0	6460.1
	% Fixture	87.4	0.0	87.4
Total	Lumens	7390.1	0.0	7390.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.7	2.1
10°-20°	339.3	4.6
20°-30°	482.4	6.5
30°-40°	702.5	9.5
40°-50°	1087.2	14.7
50°-60°	1668.6	22.6
60°-70°	1808.7	24.5
70°-80°	1020.4	13.8
80°-90°	128.2	1.7
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°	7390.1	100.0
0°-180°	7390.1	100.0

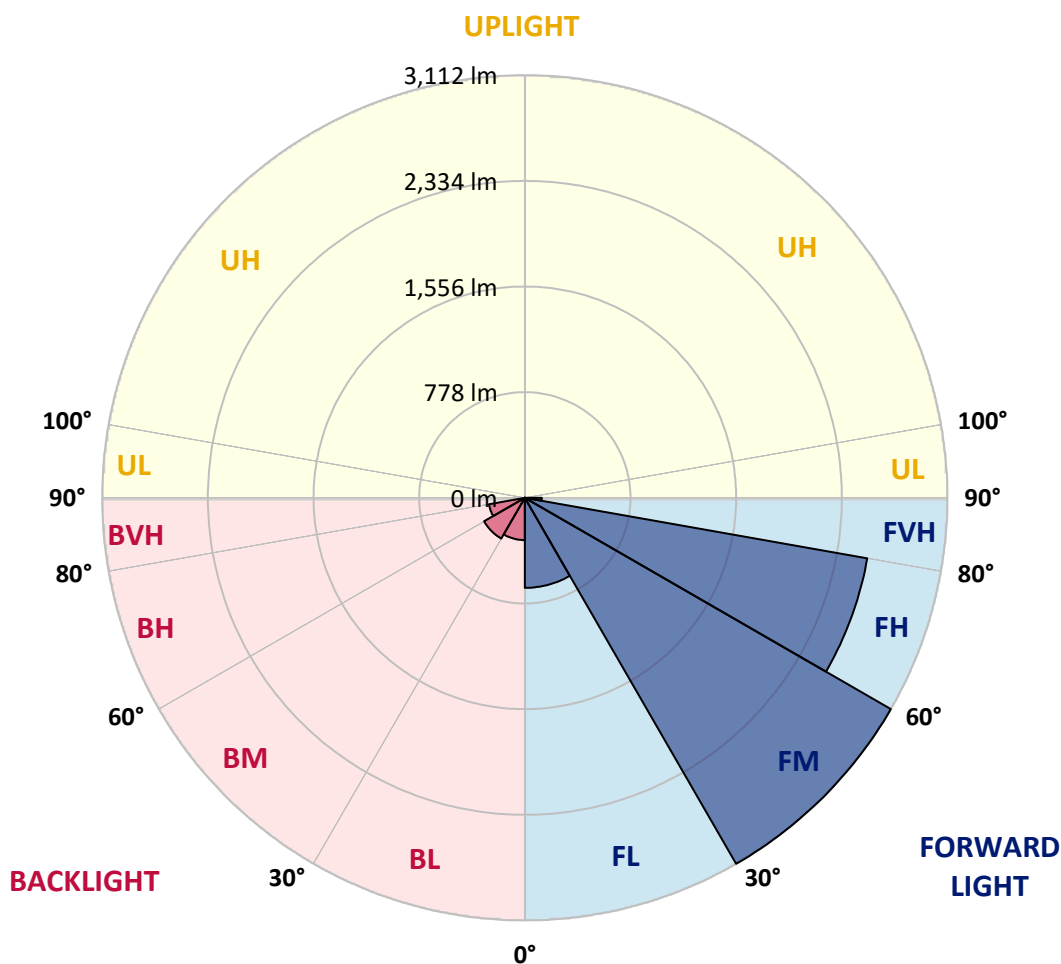


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	663.1	9.0			
FM (30°-60°)	3111.9	42.1			
FH (60°-80°)	2560.5	34.6			G2/5000
FVH (80°-90°)	124.5	1.7			G2/225
BL (0°-30°)	311.3	4.2	B1/500		
BM (30°-60°)	346.4	4.7	B1/1000		
BH (60°-80°)	268.7	3.6	B1/500		G1/500
BVH (80°-90°)	3.7	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1812.7	1812.7	1812.7	1812.7	1812.7	1812.7	1812.7	1812.7	1812.7	1812.7	1812.7
2.5°	1734.3	1743.2	1755.7	1773.5	1785.9	1778.8	1784.2	1814.4	1798.4	1812.7	1805.5
5°	1638.2	1647.1	1664.9	1663.1	1677.3	1704.0	1739.7	1778.8	1761.0	1803.8	1819.8
7.5°	1538.4	1534.9	1534.9	1572.3	1602.5	1639.9	1659.5	1723.6	1725.4	1762.8	1802.0
10°	1447.6	1458.3	1476.1	1490.4	1518.9	1572.3	1629.3	1679.1	1698.7	1773.5	1784.2
12.5°	1392.4	1397.8	1419.1	1431.6	1469.0	1520.6	1581.2	1645.3	1661.3	1737.9	1789.5
15°	1369.3	1381.8	1388.9	1412.0	1431.6	1479.7	1524.2	1597.2	1643.5	1704.0	1768.1
17.5°	1387.1	1381.8	1385.3	1392.4	1415.6	1458.3	1506.4	1579.4	1595.4	1696.9	1793.1
20°	1410.2	1412.0	1401.3	1397.8	1392.4	1433.4	1472.6	1566.9	1584.7	1696.9	1809.1
22.5°	1472.6	1453.0	1472.6	1444.1	1415.6	1433.4	1470.8	1568.7	1581.2	1695.1	1825.1
25°	1549.1	1552.7	1558.0	1497.5	1456.5	1444.1	1483.2	1574.1	1584.7	1709.4	1832.2
27.5°	1657.7	1673.8	1647.1	1616.8	1534.9	1472.6	1481.5	1570.5	1590.1	1702.3	1850.1
30°	1803.8	1791.3	1794.9	1725.4	1645.3	1547.3	1522.4	1579.4	1593.6	1711.2	1883.9
32.5°	1930.2	1915.9	1940.9	1915.9	1789.5	1654.2	1570.5	1597.2	1613.2	1732.5	1912.4
35°	2008.5	2026.3	2065.5	2092.2	1985.4	1793.1	1650.6	1645.3	1652.4	1743.2	1933.7
37.5°	2129.6	2161.7	2193.7	2261.4	2168.8	1964.0	1777.0	1707.6	1695.1	1794.9	1944.4
40°	2261.4	2252.5	2346.8	2427.0	2423.4	2204.4	1953.3	1818.0	1800.2	1876.8	2015.6
42.5°	2371.8	2362.9	2467.9	2599.7	2613.9	2435.9	2154.5	1974.7	1958.7	2003.2	2102.9
45°	2516.0	2523.1	2647.8	2804.5	2856.1	2742.1	2427.0	2199.0	2190.1	2175.9	2268.5
47.5°	2644.2	2683.4	2790.2	2975.4	3162.4	3059.1	2747.5	2526.7	2464.4	2432.3	2524.9
50°	2733.2	2768.8	2898.8	3096.5	3438.4	3504.2	3107.2	2875.7	2877.5	2799.1	2849.0
52.5°	2733.2	2731.5	2836.5	3096.5	3630.7	3969.0	3587.9	3315.5	3329.7	3247.8	3251.4
55°	2469.7	2464.4	2592.6	2868.6	3609.3	4415.9	4316.2	3872.8	3837.2	3678.7	3694.8
57.5°	1988.9	2001.4	2099.3	2430.5	3331.5	4624.2	5183.3	4499.6	4378.5	4050.9	4050.9
60°	1451.2	1440.5	1513.5	1745.0	2669.1	4545.9	5895.6	5238.5	5048.0	4358.9	4312.6
62.5°	1104.0	1102.2	1121.8	1200.1	1693.4	3963.6	6201.9	6178.7	5868.9	4661.6	4595.7
65°	892.1	895.6	922.4	977.6	1034.5	2703.0	6039.8	7300.5	7017.4	5112.1	4896.7
67.5°	728.3	737.2	769.2	888.5	876.1	1399.6	5144.2	7943.3	7996.7	5799.4	5300.9
70°	560.9	575.1	612.5	781.7	844.0	931.3	3566.6	7622.8	7765.2	6226.8	5056.9
72.5°	381.0	379.3	459.4	633.9	852.9	852.9	1985.4	6139.5	6274.9	5740.7	4392.8
75°	206.6	219.0	304.5	479.0	781.7	824.4	1130.7	4492.5	4683.0	4464.0	3397.4
77.5°	112.2	114.0	169.2	313.4	649.9	787.0	755.0	3055.5	3130.3	2692.3	1860.7
80°	58.8	60.5	89.0	204.8	448.7	730.0	628.6	1821.6	1750.3	1032.8	614.3
82.5°	26.7	28.5	44.5	128.2	286.7	575.1	543.1	879.6	812.0	288.5	187.0
85°	10.7	10.7	19.6	76.6	167.4	283.1	464.7	441.6	368.6	87.2	92.6
87.5°	3.6	3.6	5.3	30.3	67.7	169.2	247.5	233.3	160.3	32.1	49.9
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°	1812.7	1812.7	1812.7	1812.7	1812.7	1812.7	1812.7	1812.7	1812.7	1812.7	1812.7
2.5°	1798.4	1818.0	1812.7	1809.1	1775.3	1771.7	1768.1	1736.1	1746.8	1720.1	1737.9
5°	1809.1	1819.8	1791.3	1737.9	1689.8	1636.4	1595.4	1566.9	1515.3	1495.7	1492.1
7.5°	1798.4	1798.4	1739.7	1654.2	1559.8	1472.6	1362.2	1283.8	1225.1	1180.5	1196.6
10°	1784.2	1762.8	1702.3	1550.9	1380.0	1248.2	1089.7	974.0	886.7	858.3	840.4
12.5°	1784.2	1746.8	1611.4	1404.9	1184.1	984.7	795.9	644.6	560.9	511.0	503.9
15°	1768.1	1712.9	1545.6	1267.8	993.6	722.9	507.5	377.5	306.3	286.7	279.6
17.5°	1771.7	1705.8	1447.6	1105.8	771.0	480.8	309.8	238.6	220.8	211.9	213.7
20°	1778.8	1705.8	1360.4	947.3	555.5	299.1	213.7	201.2	192.3	188.7	190.5
22.5°	1802.0	1672.0	1271.4	785.2	375.7	215.5	188.7	176.3	169.2	163.8	162.0
25°	1805.5	1666.6	1185.9	625.0	258.2	181.6	165.6	151.4	142.4	135.3	133.5
27.5°	1800.2	1643.5	1066.6	464.7	194.1	162.0	140.7	126.4	114.0	108.6	106.8
30°	1819.8	1600.8	965.1	334.8	163.8	140.7	119.3	103.3	92.6	85.5	85.5
32.5°	1821.6	1563.4	852.9	238.6	149.6	124.6	101.5	83.7	73.0	69.4	69.4
35°	1823.3	1529.5	728.3	181.6	133.5	106.8	83.7	69.4	62.3	57.0	57.0
37.5°	1828.7	1504.6	614.3	153.1	119.3	90.8	69.4	57.0	49.9	48.1	48.1
40°	1839.4	1470.8	495.0	135.3	103.3	76.6	58.8	48.1	41.0	39.2	37.4
42.5°	1867.9	1461.9	395.3	121.1	92.6	64.1	48.1	39.2	33.8	30.3	28.5
45°	1985.4	1485.0	306.3	112.2	78.3	53.4	41.0	32.1	24.9	23.1	21.4
47.5°	2177.7	1561.6	242.2	99.7	65.9	44.5	33.8	24.9	19.6	17.8	16.0
50°	2469.7	1736.1	197.6	89.0	55.2	37.4	26.7	19.6	14.2	12.5	12.5
52.5°	2852.5	1971.1	170.9	78.3	44.5	32.1	21.4	14.2	10.7	8.9	8.9
55°	3244.3	2248.9	160.3	67.7	37.4	26.7	16.0	10.7	7.1	5.3	5.3
57.5°	3603.9	2428.7	154.9	55.2	32.1	19.6	12.5	7.1	3.6	1.8	1.8
60°	3828.3	2560.5	138.9	44.5	24.9	16.0	8.9	3.6	1.8	0.0	0.0
62.5°	4123.9	2694.1	114.0	33.8	17.8	10.7	5.3	1.8	0.0	0.0	0.0
65°	4513.8	2843.6	89.0	26.7	14.2	7.1	3.6	1.8	0.0	0.0	0.0
67.5°	4700.8	2765.3	60.5	19.6	8.9	3.6	1.8	0.0	0.0	0.0	0.0
70°	4326.9	2329.0	42.7	14.2	5.3	1.8	1.8	0.0	0.0	0.0	0.0
72.5°	3637.8	1825.1	32.1	8.9	3.6	1.8	0.0	0.0	0.0	0.0	0.0
75°	2681.6	1141.4	24.9	7.1	3.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1422.7	425.6	17.8	5.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	420.2	124.6	12.5	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	138.9	37.4	7.1	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	71.2	14.2	3.6	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	41.0	5.3	3.6	3.6	1.8	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)