

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: P677104

Luminaire Tested: **CCW-SA-2E-722-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677104
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-722-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) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

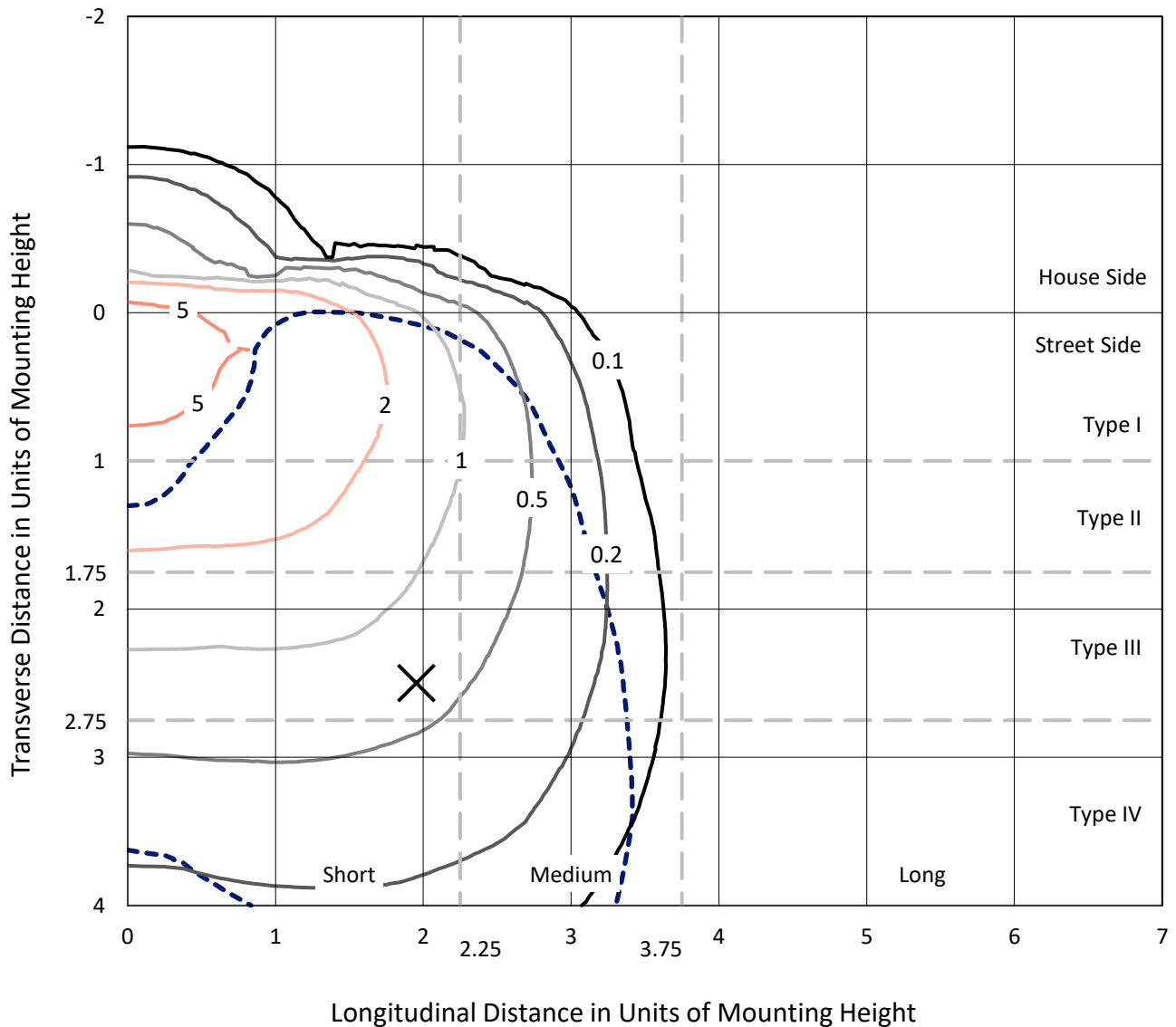
Lumens per Lamp: N/A
Luminaire Lumens: 8319.4 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

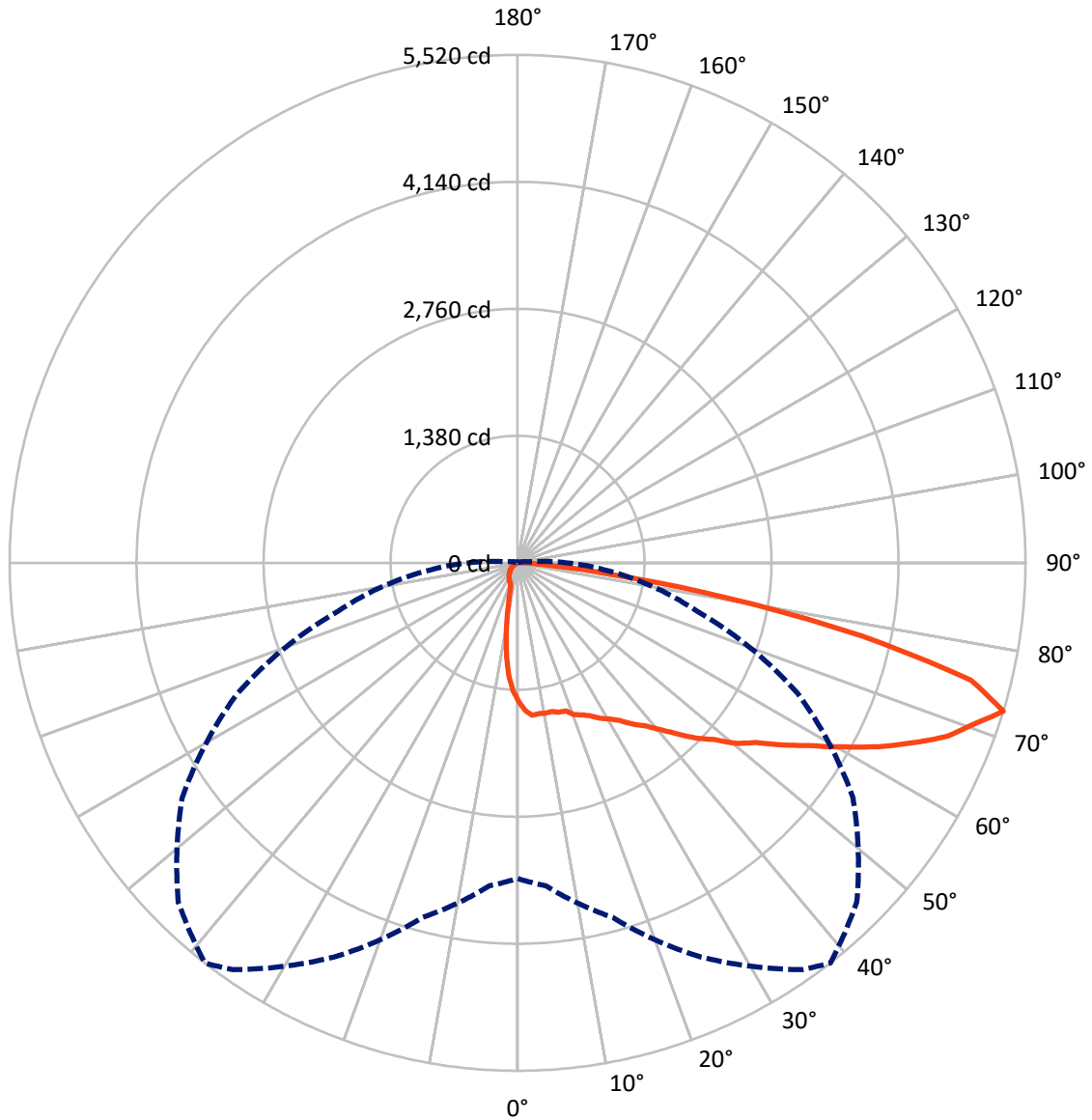
✕ Max cd
 - - - 1/2 Max cd



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	696.8	0.0	696.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	7622.6	0.0	7622.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	8319.4	0.0	8319.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.7	1.6
10°-20°	322.4	3.9
20°-30°	516.9	6.2
30°-40°	780.4	9.4
40°-50°	1187.7	14.3
50°-60°	1672.1	20.1
60°-70°	2042.5	24.6
70°-80°	1483.1	17.8
80°-90°	182.7	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°	8319.4	100.0
0°-180°	8319.4	100.0

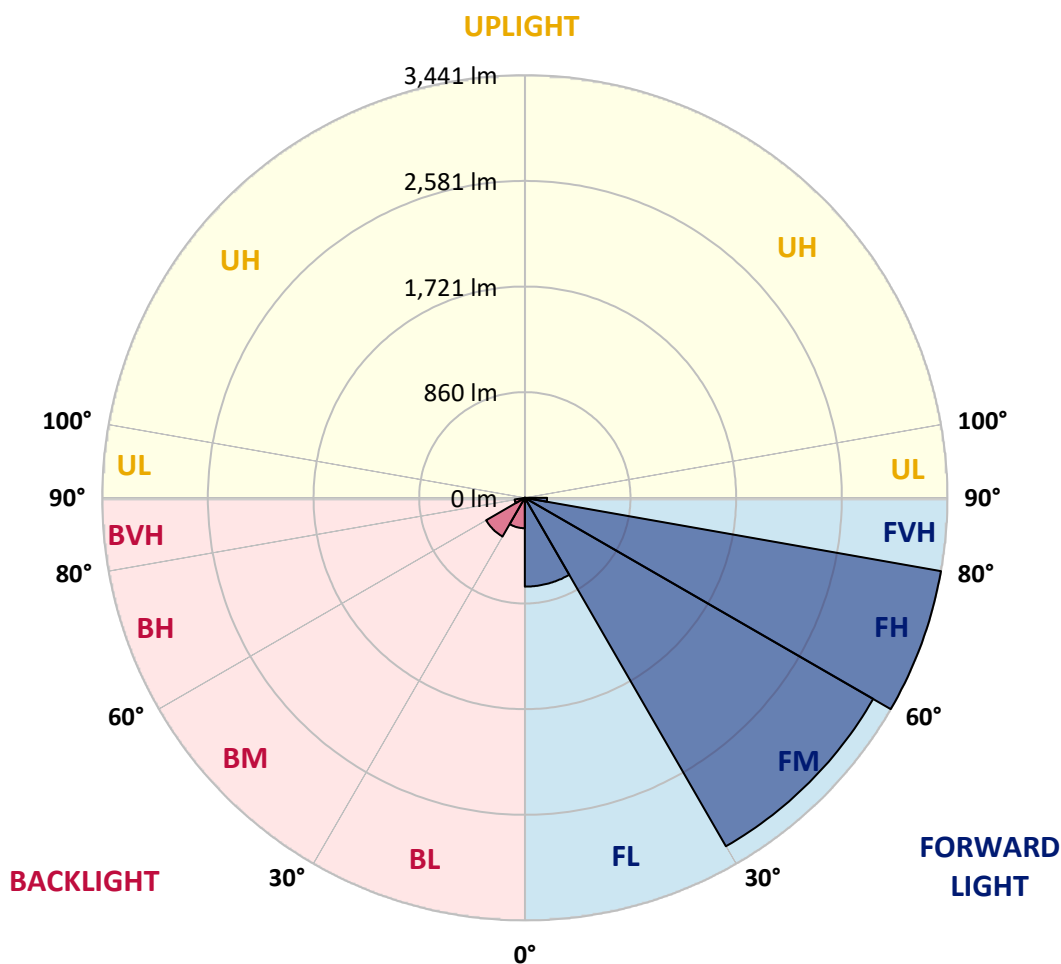


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	723.6	8.7			
FM (30°-60°)	3276.2	39.4			
FH (60°-80°)	3441.1	41.4			G2/5000
FVH (80°-90°)	181.7	2.2			G2/225
BL (0°-30°)	247.4	3.0	B1/500		
BM (30°-60°)	364.0	4.4	B1/1000		
BH (60°-80°)	84.5	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°	1504.5	1504.5	1504.5	1504.5	1504.5	1504.5	1504.5	1504.5	1504.5	1504.5	1504.5
2.5°	1652.8	1652.8	1668.4	1652.8	1646.9	1609.8	1611.8	1592.3	1572.8	1545.4	1520.1
5°	1672.3	1685.9	1695.7	1682.0	1660.6	1664.5	1678.1	1641.1	1588.4	1555.2	1498.6
7.5°	1664.5	1693.7	1685.9	1678.1	1664.5	1654.7	1635.2	1619.6	1594.2	1563.0	1496.7
10°	1658.6	1668.4	1670.3	1664.5	1635.2	1662.5	1641.1	1615.7	1584.5	1547.4	1465.4
12.5°	1637.2	1637.2	1654.7	1641.1	1645.0	1658.6	1648.9	1643.0	1609.8	1578.6	1506.4
15°	1613.7	1621.5	1648.9	1670.3	1689.8	1684.0	1678.1	1660.6	1631.3	1596.2	1520.1
17.5°	1619.6	1623.5	1666.4	1705.5	1695.7	1691.8	1723.0	1685.9	1656.7	1617.6	1531.8
20°	1641.1	1652.8	1701.6	1752.3	1762.0	1762.0	1750.3	1728.9	1687.9	1635.2	1553.3
22.5°	1662.5	1666.4	1746.4	1810.8	1820.6	1795.2	1805.0	1742.5	1703.5	1674.2	1574.7
25°	1744.5	1736.7	1822.5	1873.3	1867.4	1842.0	1832.3	1777.7	1762.0	1709.4	1621.5
27.5°	1855.7	1822.5	1906.4	1937.7	1906.4	1914.2	1886.9	1828.4	1795.2	1764.0	1643.0
30°	1924.0	1943.5	1988.4	2019.6	1966.9	1968.9	1955.2	1890.8	1840.1	1847.9	1715.2
32.5°	2029.4	2043.0	2076.2	2089.9	2048.9	2045.0	2031.3	1980.6	1943.5	1935.7	1812.8
35°	2142.6	2167.9	2169.9	2173.8	2136.7	2152.3	2132.8	2060.6	2080.1	2093.8	1929.9
37.5°	2253.8	2230.4	2269.4	2287.0	2246.0	2246.0	2251.8	2203.0	2238.2	2279.1	2095.7
40°	2296.7	2306.5	2374.8	2361.1	2409.9	2380.6	2402.1	2390.4	2419.6	2513.3	2329.9
42.5°	2341.6	2353.3	2445.0	2470.4	2528.9	2538.7	2569.9	2571.8	2657.7	2811.9	2554.3
45°	2427.4	2407.9	2532.8	2595.3	2690.9	2718.2	2755.3	2786.5	2921.1	3102.6	2809.9
47.5°	2505.5	2478.2	2620.6	2745.5	2862.6	2868.4	2969.9	3003.1	3163.1	3369.9	3063.6
50°	2614.8	2624.5	2685.0	2899.7	3018.7	3087.0	3157.2	3266.5	3444.1	3664.6	3247.0
52.5°	2728.0	2718.2	2819.7	3030.4	3217.7	3243.1	3401.2	3524.1	3717.3	3883.1	3329.0
55°	2866.5	2878.2	2917.2	3194.3	3432.4	3492.9	3670.4	3799.2	4010.0	3976.8	3356.3
57.5°	3005.0	2993.3	3081.1	3377.7	3701.7	3746.5	3982.7	4058.8	4201.2	4039.2	3288.0
60°	3141.6	3163.1	3200.2	3584.6	3996.3	4062.7	4250.0	4289.0	4320.2	4068.5	3235.3
62.5°	3297.7	3247.0	3362.1	3803.1	4261.7	4400.2	4548.5	4394.4	4367.1	4015.8	3114.3
65°	3375.8	3391.4	3541.7	4052.9	4614.9	4716.3	4735.9	4536.8	4396.3	3898.7	3001.1
67.5°	3496.8	3518.2	3709.5	4308.5	4977.8	5034.4	4964.2	4665.6	4371.0	3746.5	2593.3
70°	3512.4	3565.1	3933.9	4575.9	5206.1	5254.9	5200.3	4751.5	4166.1	3147.5	1920.1
72.5°	3430.4	3524.1	3988.5	4728.1	5397.4	5520.3	5213.9	4449.0	3358.2	2007.9	983.5
75°	2591.4	2669.4	3650.9	4501.7	5057.8	5087.1	4577.8	3395.3	1912.3	684.9	251.7
77.5°	1342.5	1477.2	2437.2	3440.2	3853.9	3822.6	3186.5	2000.1	657.6	179.5	101.5
80°	770.8	803.9	1065.4	1931.8	2423.5	2304.5	1762.0	862.5	288.8	89.8	66.3
82.5°	380.5	427.3	573.7	864.4	1211.8	997.1	661.5	517.1	162.0	48.8	58.5
85°	82.0	85.9	292.7	413.7	491.7	323.9	226.4	435.1	58.5	29.3	56.6
87.5°	58.5	56.6	82.0	185.4	136.6	83.9	134.6	228.3	13.7	13.7	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°	1504.5	1504.5	1504.5	1504.5	1504.5	1504.5	1504.5	1504.5	1504.5	1504.5	1504.5
2.5°	1504.5	1486.9	1467.4	1430.3	1420.6	1414.7	1381.5	1379.6	1373.7	1360.1	1354.2
5°	1463.5	1434.2	1397.1	1358.1	1326.9	1270.3	1202.0	1166.9	1124.0	1125.9	1112.3
7.5°	1457.6	1403.0	1350.3	1268.4	1168.8	1063.5	958.1	889.8	841.0	811.8	817.6
10°	1430.3	1389.3	1303.5	1151.3	991.3	831.3	696.6	595.2	536.6	491.7	505.4
12.5°	1442.0	1362.0	1241.0	1038.1	809.8	612.7	444.9	347.3	304.4	288.8	292.7
15°	1434.2	1362.0	1204.0	915.2	636.1	415.6	288.8	257.6	249.8	249.8	245.9
17.5°	1457.6	1377.6	1141.5	794.2	456.6	277.1	247.8	242.0	236.1	236.1	236.1
20°	1490.8	1385.4	1098.6	659.5	322.0	243.9	232.2	228.3	226.4	226.4	224.4
22.5°	1492.8	1377.6	1018.6	511.2	247.8	230.3	220.5	218.5	218.5	214.6	214.6
25°	1504.5	1385.4	932.7	384.4	230.3	216.6	208.8	206.8	208.8	206.8	204.9
27.5°	1533.7	1399.1	846.9	281.0	216.6	204.9	199.0	197.1	197.1	197.1	193.2
30°	1570.8	1399.1	751.3	232.2	204.9	193.2	187.3	185.4	183.4	183.4	183.4
32.5°	1648.9	1444.0	634.2	206.8	189.3	179.5	173.7	173.7	171.7	171.7	169.8
35°	1746.4	1475.2	515.1	191.2	175.6	165.9	160.0	160.0	158.1	158.1	156.1
37.5°	1867.4	1553.3	394.2	179.5	162.0	152.2	146.3	146.3	146.3	144.4	144.4
40°	2039.1	1633.3	292.7	163.9	148.3	138.5	134.6	132.7	130.7	130.7	126.8
42.5°	2222.6	1756.2	218.5	152.2	136.6	128.8	122.9	117.1	117.1	111.2	111.2
45°	2421.6	1863.5	177.6	138.5	124.9	115.1	109.3	105.4	99.5	95.6	95.6
47.5°	2616.7	1929.9	156.1	122.9	113.2	105.4	99.5	91.7	83.9	82.0	80.0
50°	2774.8	1949.4	138.5	111.2	103.4	95.6	87.8	78.1	70.2	66.3	64.4
52.5°	2774.8	1842.0	124.9	99.5	93.7	85.9	76.1	64.4	54.6	50.7	48.8
55°	2774.8	1672.3	111.2	91.7	83.9	78.1	64.4	52.7	42.9	37.1	35.1
57.5°	2733.8	1467.4	99.5	82.0	74.2	66.3	54.6	41.0	31.2	25.4	25.4
60°	2620.6	1252.7	85.9	72.2	64.4	54.6	42.9	29.3	19.5	13.7	13.7
62.5°	2476.2	997.1	74.2	60.5	52.7	44.9	33.2	19.5	7.8	3.9	3.9
65°	2224.5	735.6	64.4	50.7	41.0	33.2	21.5	7.8	0.0	0.0	0.0
67.5°	1836.2	491.7	50.7	41.0	35.1	23.4	13.7	2.0	0.0	0.0	0.0
70°	1291.8	279.0	39.0	29.3	25.4	15.6	3.9	0.0	0.0	0.0	0.0
72.5°	530.8	122.9	27.3	21.5	17.6	7.8	0.0	0.0	0.0	0.0	0.0
75°	144.4	54.6	17.6	11.7	9.8	2.0	0.0	0.0	0.0	0.0	0.0
77.5°	83.9	37.1	7.8	3.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	66.3	17.6	3.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	66.3	9.8	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	56.6	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)