

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: P675636

Luminaire Tested: **CCW-SA-1F-850-U-SL3**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675636
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-850-U-SL3
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/
SL3 distribution lens
Light Source: (16) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

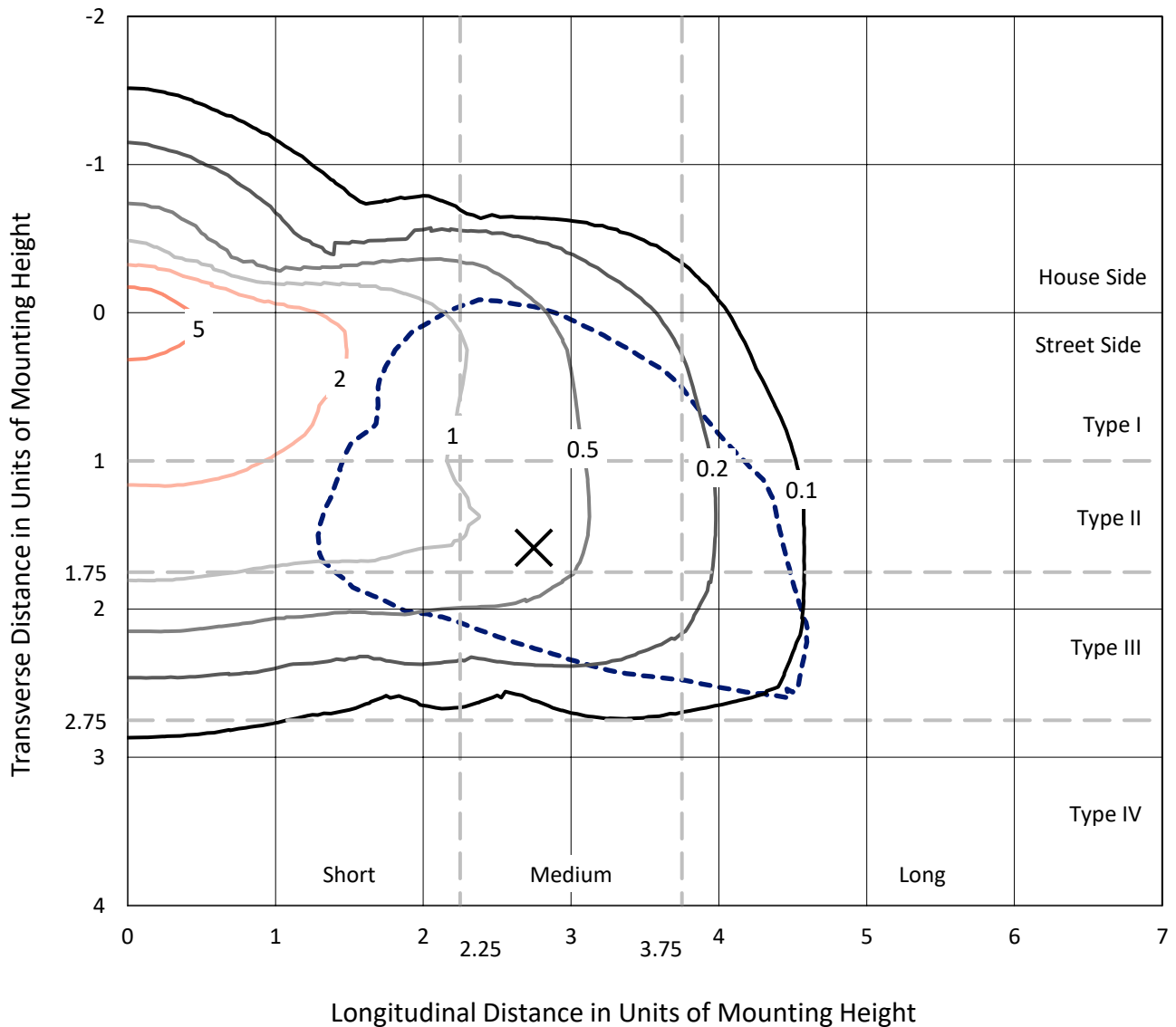
Lumens per Lamp: N/A
Luminaire Lumens: 6468.8 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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

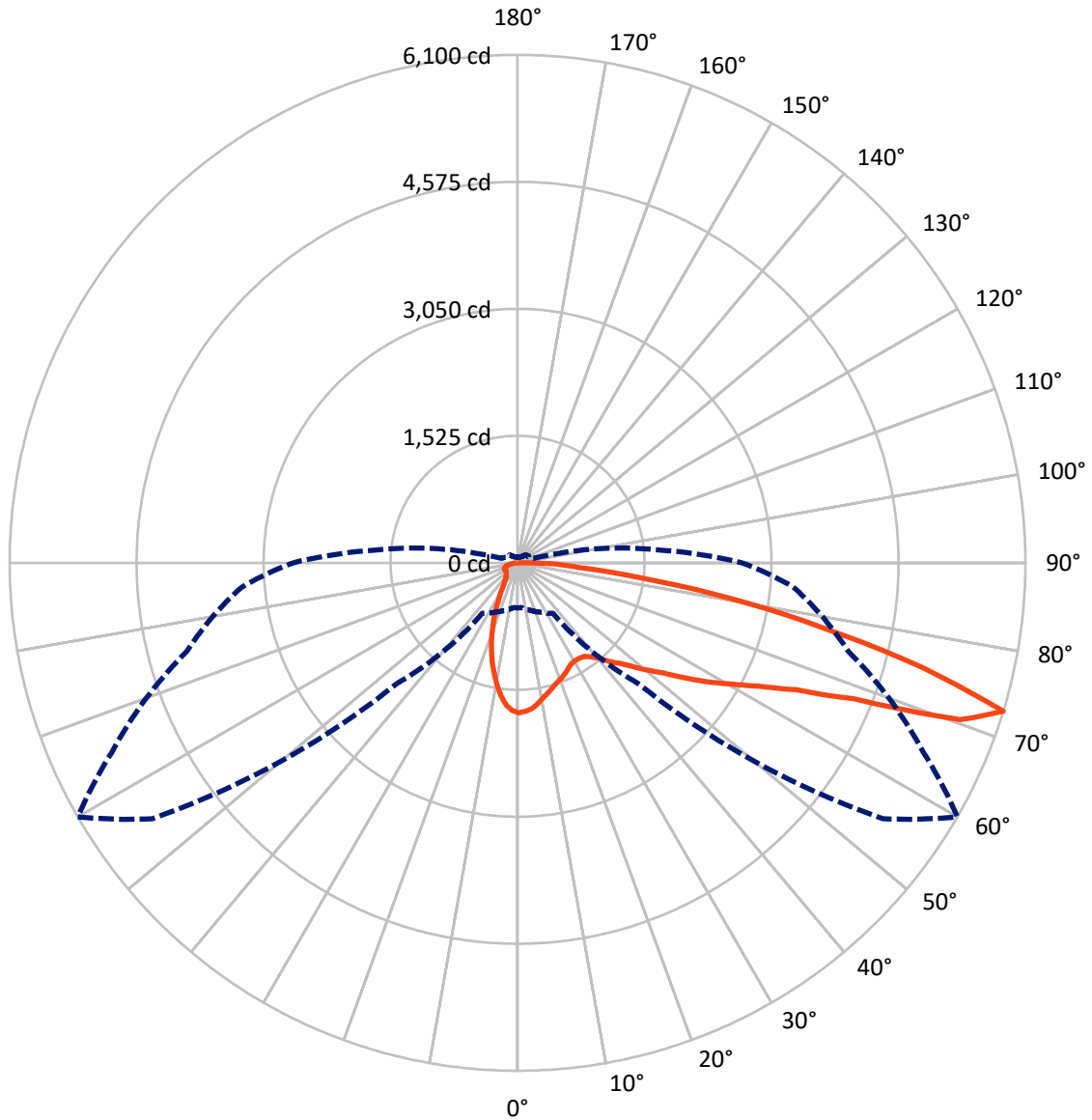
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1111.2	0.0	1111.2
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	5357.6	0.0	5357.6
	% Fixture	82.8	0.0	82.8
Total	Lumens	6468.8	0.0	6468.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.1	2.4
10°-20°	354.0	5.5
20°-30°	453.1	7.0
30°-40°	579.6	9.0
40°-50°	795.0	12.3
50°-60°	1149.9	17.8
60°-70°	1577.4	24.4
70°-80°	1183.7	18.3
80°-90°	220.0	3.4
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°	6468.8	100.0
0°-180°	6468.8	100.0

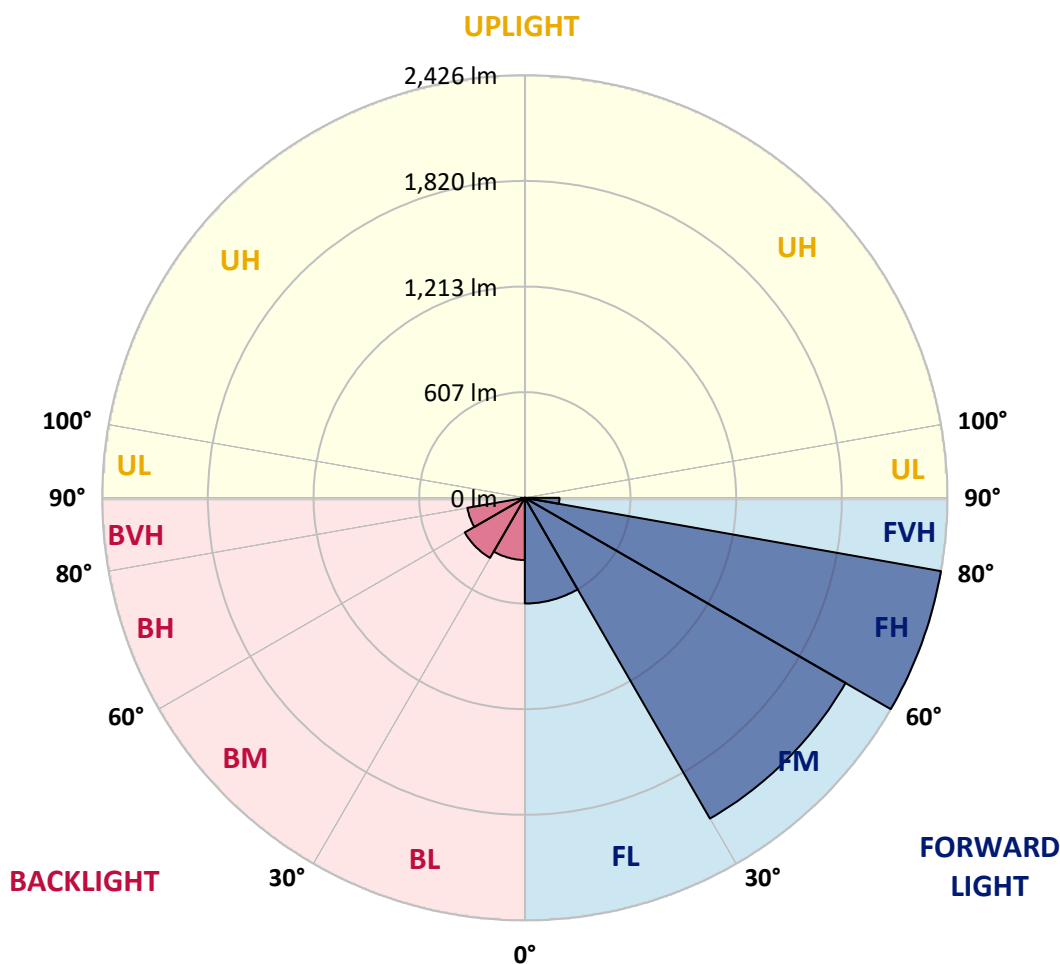


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	606.5	9.4			
FM (30°-60°)	2126.2	32.9			
FH (60°-80°)	2426.2	37.5			G2/5000
FVH (80°-90°)	198.6	3.1			G2/225
BL (0°-30°)	356.7	5.5	B1/500		
BM (30°-60°)	398.2	6.2	B1/1000		
BH (60°-80°)	334.9	5.2	B1/500		G1/500
BVH (80°-90°)	21.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1801.2	1801.2	1801.2	1801.2	1801.2	1801.2	1801.2	1801.2	1801.2	1801.2	1801.2
2.5°	1762.7	1779.6	1784.4	1784.4	1798.8	1782.0	1806.1	1786.8	1791.6	1798.8	1794.0
5°	1678.4	1707.3	1690.5	1721.8	1709.7	1731.4	1760.3	1760.3	1753.1	1767.5	1755.5
7.5°	1596.6	1586.9	1615.8	1615.8	1635.1	1664.0	1688.1	1712.1	1714.6	1719.4	1717.0
10°	1485.8	1497.8	1512.3	1531.5	1555.6	1584.5	1635.1	1654.3	1659.2	1688.1	1680.8
12.5°	1394.3	1411.1	1420.8	1459.3	1481.0	1521.9	1579.7	1606.2	1608.6	1649.5	1649.5
15°	1326.8	1336.5	1358.2	1372.6	1420.8	1478.6	1533.9	1558.0	1584.5	1627.9	1615.8
17.5°	1281.1	1293.1	1302.8	1322.0	1367.8	1415.9	1502.6	1517.1	1548.4	1611.0	1596.6
20°	1254.6	1257.0	1271.5	1283.5	1324.4	1370.2	1447.3	1485.8	1526.7	1582.1	1567.7
22.5°	1259.4	1249.8	1247.4	1264.2	1271.5	1314.8	1408.7	1449.7	1507.5	1572.5	1548.4
25°	1269.1	1271.5	1266.6	1252.2	1254.6	1293.1	1355.7	1408.7	1473.7	1570.1	1521.9
27.5°	1293.1	1305.2	1285.9	1271.5	1257.0	1271.5	1336.5	1375.0	1447.3	1582.1	1519.5
30°	1317.2	1329.3	1324.4	1302.8	1273.9	1269.1	1314.8	1363.0	1432.8	1591.7	1519.5
32.5°	1353.3	1370.2	1353.3	1360.6	1326.8	1305.2	1322.0	1365.4	1447.3	1625.5	1521.9
35°	1394.3	1408.7	1413.5	1396.7	1389.5	1348.5	1358.2	1379.8	1461.7	1664.0	1546.0
37.5°	1440.0	1456.9	1471.3	1473.7	1449.7	1425.6	1420.8	1432.8	1497.8	1731.4	1572.5
40°	1471.3	1481.0	1509.9	1533.9	1541.2	1507.5	1505.0	1505.0	1562.8	1791.6	1620.6
42.5°	1524.3	1519.5	1560.4	1603.8	1615.8	1596.6	1601.4	1620.6	1654.3	1878.3	1697.7
45°	1550.8	1546.0	1594.1	1666.4	1721.8	1712.1	1717.0	1724.2	1755.5	2015.6	1827.7
47.5°	1586.9	1591.7	1661.6	1743.4	1801.2	1835.0	1861.4	1859.0	1883.1	2155.2	1972.2
50°	1623.0	1632.7	1717.0	1803.6	1904.8	1962.6	2001.1	2027.6	2051.7	2302.1	2138.4
52.5°	1692.9	1702.5	1796.4	1890.3	2020.4	2104.7	2201.0	2198.6	2201.0	2449.0	2304.5
55°	1794.0	1796.4	1851.8	1960.2	2136.0	2290.1	2422.5	2437.0	2396.0	2632.0	2494.8
57.5°	1909.6	1919.2	1967.4	2049.3	2227.5	2468.3	2670.6	2699.5	2588.7	2781.3	2668.1
60°	2018.0	2025.2	2099.8	2193.8	2386.4	2692.2	2921.0	2954.7	2834.3	2964.3	2848.8
62.5°	1895.2	1931.3	2063.7	2278.0	2665.7	3031.8	3238.9	3260.5	3072.7	3149.8	3041.4
65°	1517.1	1541.2	1731.4	2078.2	2685.0	3648.2	3730.1	3672.3	3400.2	3388.2	3332.8
67.5°	845.2	864.5	994.5	1358.2	2261.2	3879.4	4787.3	4363.4	3908.3	3747.0	3727.7
70°	667.0	671.9	688.7	763.4	1254.6	3419.5	5620.4	5639.7	4739.1	4240.6	3812.0
72.5°	541.8	539.4	590.0	655.0	741.7	2051.7	5358.0	6099.7	5374.8	4110.6	3320.7
75°	414.2	421.4	486.4	580.3	679.1	965.6	3997.4	5018.4	5035.3	3831.2	2800.6
77.5°	315.5	317.9	390.1	512.9	664.6	681.5	2607.9	3739.7	3756.6	2966.7	1543.6
80°	236.0	236.0	296.2	433.5	647.8	628.5	1606.2	2593.5	2347.9	1042.7	337.1
82.5°	134.9	144.5	197.5	329.9	587.6	604.4	905.4	1485.8	992.1	284.2	156.5
85°	72.2	74.7	120.4	221.5	484.0	577.9	691.1	739.3	394.9	151.7	72.2
87.5°	26.5	26.5	55.4	113.2	305.8	428.6	549.0	472.0	226.4	69.8	36.1
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°	1801.2	1801.2	1801.2	1801.2	1801.2	1801.2	1801.2	1801.2	1801.2	1801.2	1801.2
2.5°	1798.8	1789.2	1782.0	1789.2	1762.7	1750.7	1765.1	1757.9	1743.4	1736.2	1731.4
5°	1762.7	1750.7	1738.6	1731.4	1702.5	1673.6	1659.2	1630.3	1606.2	1613.4	1599.0
7.5°	1724.2	1712.1	1676.0	1642.3	1584.5	1526.7	1500.2	1459.3	1444.8	1432.8	1425.6
10°	1676.0	1654.3	1599.0	1531.5	1447.3	1382.2	1314.8	1266.6	1216.1	1194.4	1201.6
12.5°	1615.8	1603.8	1517.1	1413.5	1295.5	1187.2	1107.7	1030.7	963.2	927.1	917.5
15°	1589.3	1553.2	1428.0	1290.7	1141.4	1006.6	888.6	753.7	674.3	635.7	635.7
17.5°	1560.4	1493.0	1343.7	1155.9	984.9	811.5	645.4	522.6	459.9	438.3	438.3
20°	1514.7	1440.0	1245.0	1028.2	821.2	611.7	462.4	394.9	375.7	361.2	363.6
22.5°	1481.0	1389.5	1153.5	903.0	650.2	455.1	363.6	341.9	334.7	329.9	332.3
25°	1442.4	1329.3	1057.1	768.2	510.5	358.8	315.5	305.8	310.6	313.0	313.0
27.5°	1411.1	1278.7	958.4	623.7	385.3	303.4	284.2	281.7	291.4	296.2	298.6
30°	1389.5	1232.9	862.1	491.2	308.2	269.7	260.1	260.1	272.1	276.9	279.3
32.5°	1367.8	1194.4	758.5	375.7	262.5	240.8	238.4	240.8	248.0	248.0	250.4
35°	1375.0	1158.3	659.8	303.4	236.0	221.5	221.5	221.5	224.0	226.4	226.4
37.5°	1389.5	1148.7	553.9	255.3	216.7	207.1	207.1	204.7	207.1	204.7	207.1
40°	1403.9	1134.2	457.5	226.4	204.7	197.5	195.1	190.2	187.8	187.8	190.2
42.5°	1464.1	1153.5	375.7	207.1	195.1	190.2	183.0	178.2	175.8	175.8	175.8
45°	1541.2	1189.6	310.6	197.5	187.8	175.8	171.0	168.6	163.7	166.2	168.6
47.5°	1656.8	1245.0	272.1	190.2	180.6	166.2	161.3	156.5	156.5	161.3	161.3
50°	1808.5	1336.5	248.0	183.0	173.4	158.9	151.7	149.3	149.3	156.5	156.5
52.5°	1972.2	1442.4	238.4	180.6	166.2	151.7	144.5	142.1	142.1	151.7	151.7
55°	2136.0	1572.5	245.6	180.6	161.3	144.5	137.3	132.4	134.9	142.1	142.1
57.5°	2316.6	1712.1	281.7	180.6	156.5	142.1	132.4	125.2	127.6	130.0	130.0
60°	2514.0	1895.2	344.4	180.6	154.1	137.3	125.2	115.6	115.6	118.0	118.0
62.5°	2713.9	2075.8	433.5	183.0	156.5	134.9	115.6	106.0	103.5	106.0	106.0
65°	2976.4	2364.7	522.6	183.0	163.7	130.0	108.4	96.3	93.9	93.9	96.3
67.5°	3344.8	2571.8	404.6	175.8	168.6	130.0	101.1	89.1	84.3	84.3	84.3
70°	3149.8	2169.7	257.7	163.7	161.3	134.9	96.3	81.9	77.1	74.7	74.7
72.5°	2697.0	1736.2	207.1	154.1	149.3	132.4	91.5	77.1	69.8	67.4	67.4
75°	2162.5	1370.2	180.6	139.7	130.0	110.8	84.3	69.8	65.0	60.2	60.2
77.5°	1059.6	573.1	137.3	122.8	110.8	84.3	74.7	65.0	57.8	53.0	53.0
80°	264.9	199.9	101.1	96.3	81.9	65.0	60.2	55.4	50.6	45.8	45.8
82.5°	142.1	118.0	72.2	65.0	55.4	45.8	45.8	43.3	40.9	36.1	33.7
85°	72.2	69.8	48.2	43.3	36.1	28.9	31.3	31.3	28.9	21.7	21.7
87.5°	38.5	38.5	24.1	19.3	16.9	14.4	14.4	14.4	12.0	9.6	9.6
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)