

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: P675625

Luminaire Tested: **CCW-SA-1F-840-U-SL3**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675625
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-840-U-SL3
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/
SL3 distribution lens
Light Source: (16) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

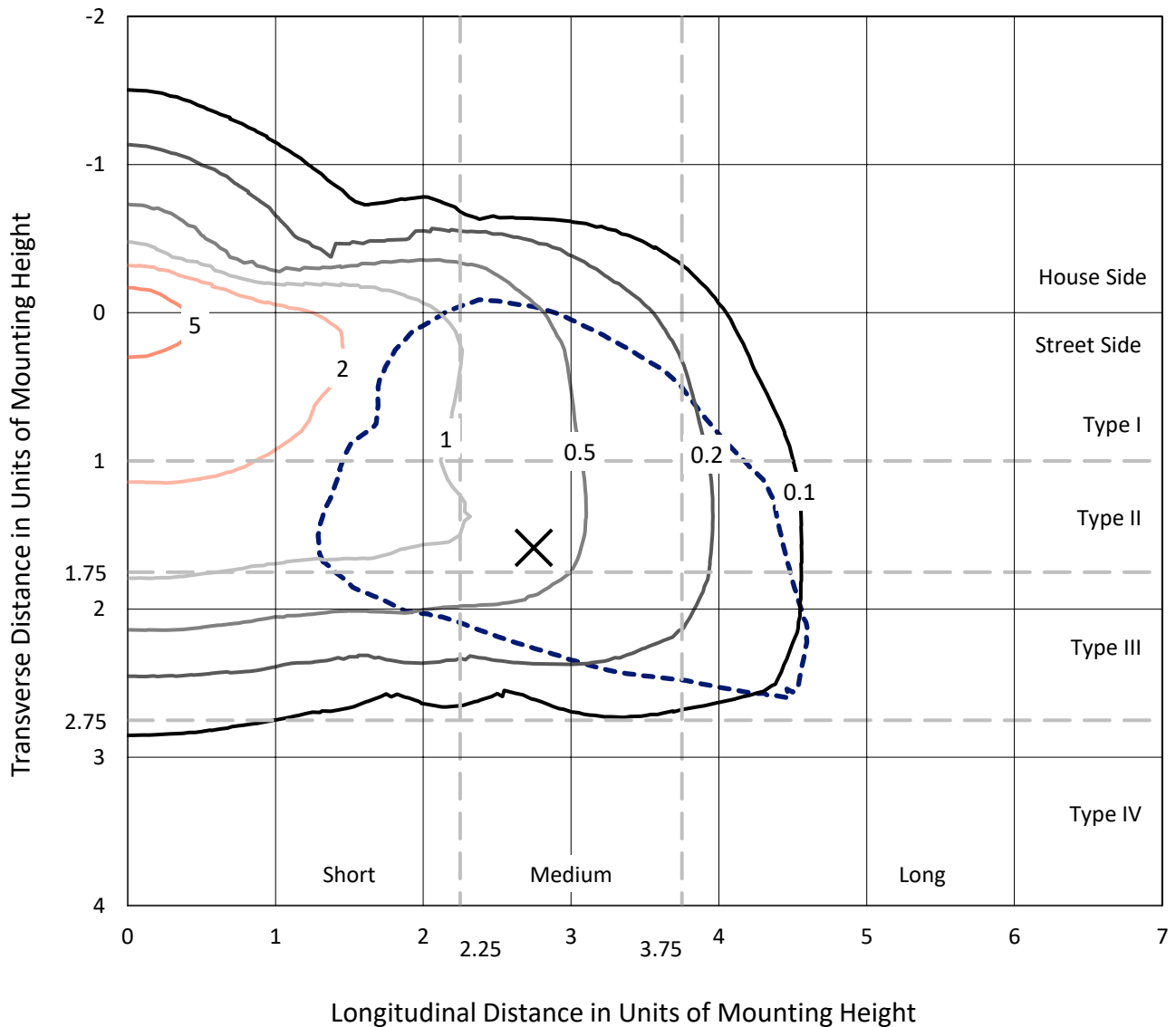
Lumens per Lamp: N/A
Luminaire Lumens: 6320.5 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
Input Voltage (V): 120
Input Current (Ain): 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

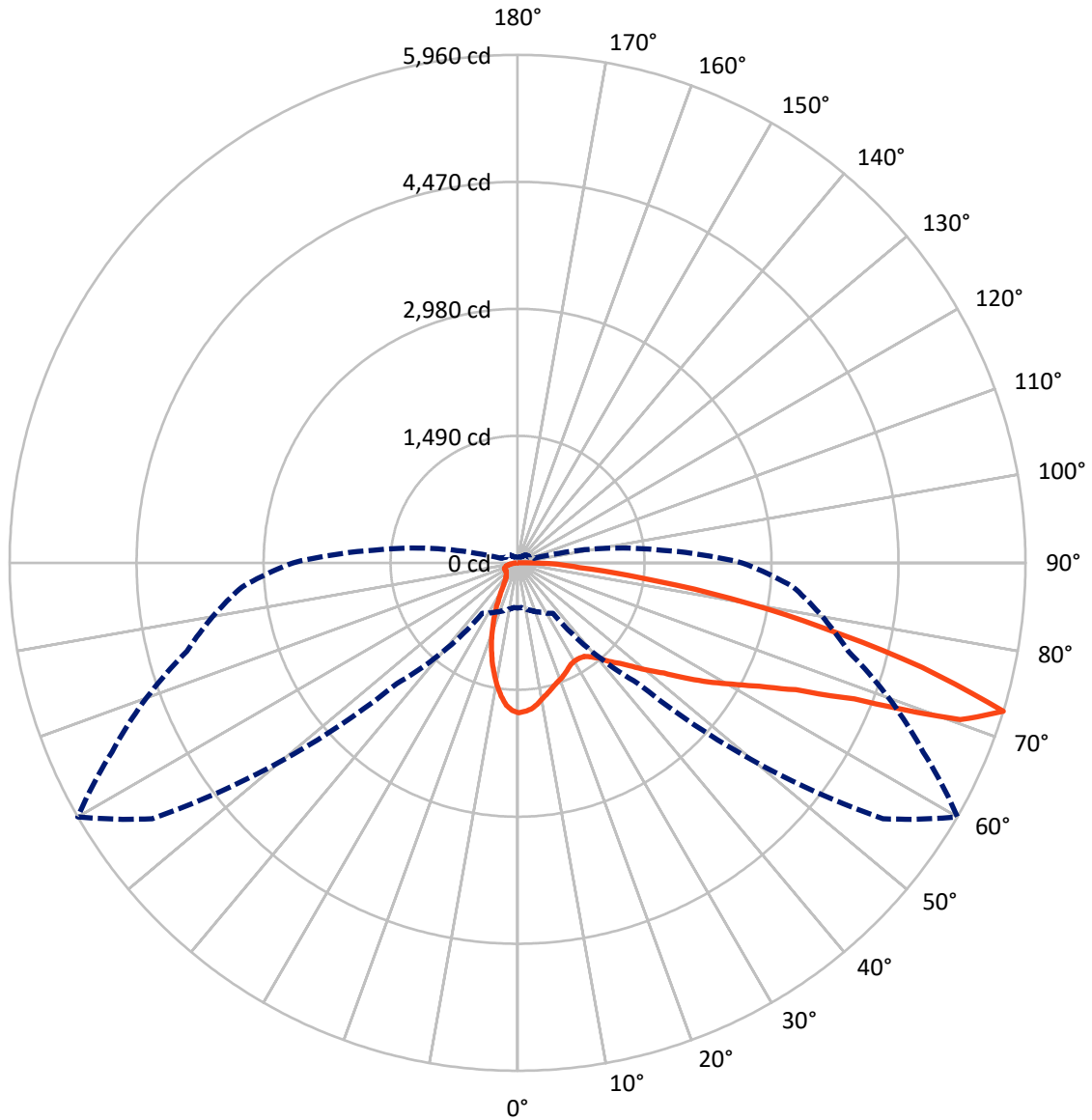
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.8 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	1085.8	0.0	1085.8
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	5234.8	0.0	5234.8
	% Fixture	82.8	0.0	82.8
Total	Lumens	6320.5	0.0	6320.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.5	2.4
10°-20°	345.9	5.5
20°-30°	442.7	7.0
30°-40°	566.4	9.0
40°-50°	776.8	12.3
50°-60°	1123.5	17.8
60°-70°	1541.2	24.4
70°-80°	1156.6	18.3
80°-90°	215.0	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°	6320.5	100.0
0°-180°	6320.5	100.0

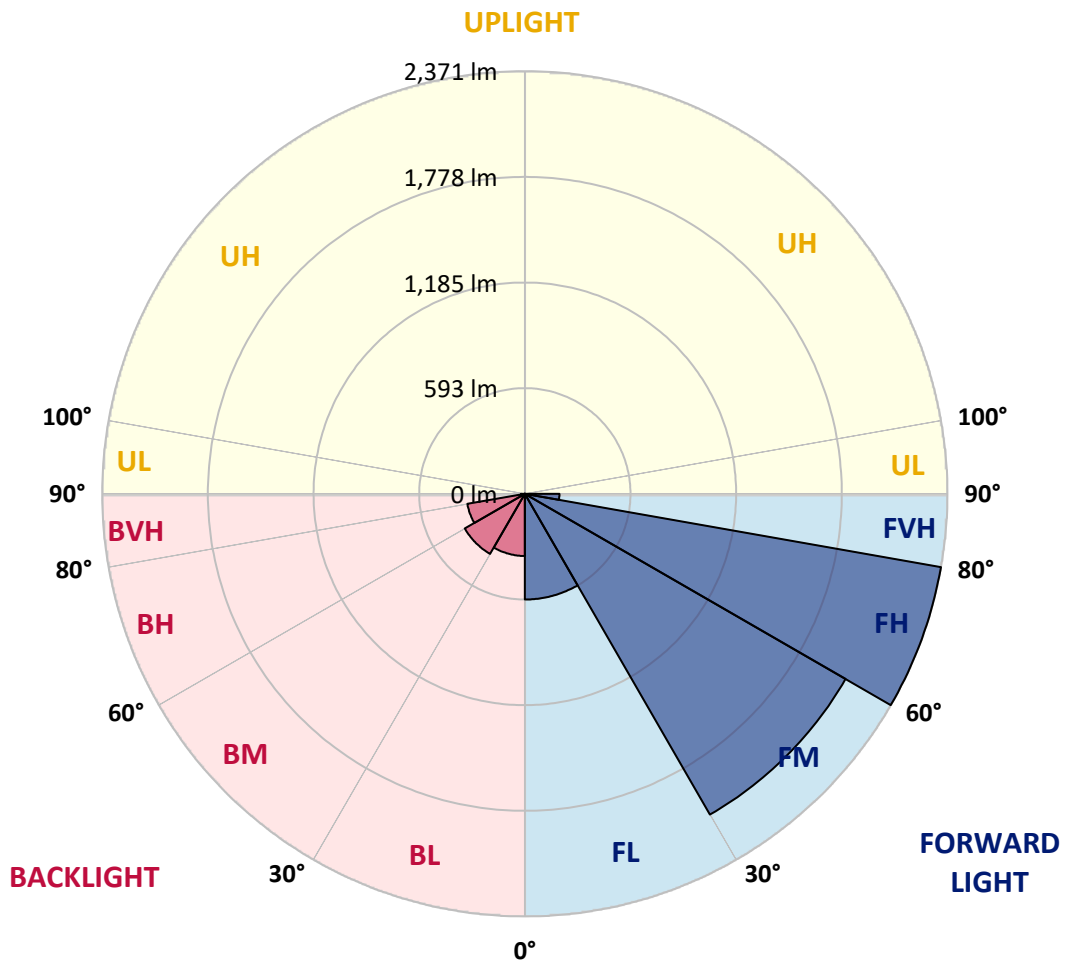


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	592.6	9.4			
FM (30°-60°)	2077.5	32.9			
FH (60°-80°)	2370.6	37.5			G2/5000
FVH (80°-90°)	194.0	3.1			G2/225
BL (0°-30°)	348.5	5.5	B1/500		
BM (30°-60°)	389.1	6.2	B1/1000		
BH (60°-80°)	327.2	5.2	B1/500		G1/500
BVH (80°-90°)	20.9	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°	1760.0	1760.0	1760.0	1760.0	1760.0	1760.0	1760.0	1760.0	1760.0	1760.0	1760.0
2.5°	1722.3	1738.8	1743.5	1743.5	1757.6	1741.1	1764.7	1745.8	1750.5	1757.6	1752.9
5°	1640.0	1668.2	1651.7	1682.3	1670.5	1691.7	1720.0	1720.0	1712.9	1727.0	1715.3
7.5°	1560.0	1550.5	1578.8	1578.8	1597.6	1625.8	1649.4	1672.9	1675.3	1680.0	1677.6
10°	1451.7	1463.5	1477.6	1496.4	1520.0	1548.2	1597.6	1616.4	1621.1	1649.4	1642.3
12.5°	1362.3	1378.8	1388.2	1425.8	1447.0	1487.0	1543.5	1569.4	1571.7	1611.7	1611.7
15°	1296.4	1305.9	1327.0	1341.1	1388.2	1444.7	1498.8	1522.3	1548.2	1590.5	1578.8
17.5°	1251.7	1263.5	1272.9	1291.7	1336.4	1383.5	1468.2	1482.3	1512.9	1574.1	1560.0
20°	1225.9	1228.2	1242.3	1254.1	1294.1	1338.8	1414.1	1451.7	1491.7	1545.8	1531.7
22.5°	1230.6	1221.1	1218.8	1235.3	1242.3	1284.7	1376.4	1416.4	1472.9	1536.4	1512.9
25°	1240.0	1242.3	1237.6	1223.5	1225.9	1263.5	1324.7	1376.4	1440.0	1534.1	1487.0
27.5°	1263.5	1275.3	1256.4	1242.3	1228.2	1242.3	1305.9	1343.5	1414.1	1545.8	1484.7
30°	1287.0	1298.8	1294.1	1272.9	1244.7	1240.0	1284.7	1331.7	1400.0	1555.3	1484.7
32.5°	1322.3	1338.8	1322.3	1329.4	1296.4	1275.3	1291.7	1334.1	1414.1	1588.2	1487.0
35°	1362.3	1376.4	1381.1	1364.7	1357.6	1317.6	1327.0	1348.2	1428.2	1625.8	1510.6
37.5°	1407.0	1423.5	1437.6	1440.0	1416.4	1392.9	1388.2	1400.0	1463.5	1691.7	1536.4
40°	1437.6	1447.0	1475.3	1498.8	1505.8	1472.9	1470.6	1470.6	1527.0	1750.5	1583.5
42.5°	1489.4	1484.7	1524.7	1567.0	1578.8	1560.0	1564.7	1583.5	1616.4	1835.2	1658.8
45°	1515.3	1510.6	1557.6	1628.2	1682.3	1672.9	1677.6	1684.7	1715.3	1969.4	1785.8
47.5°	1550.5	1555.3	1623.5	1703.5	1760.0	1792.9	1818.8	1816.4	1840.0	2105.8	1927.0
50°	1585.8	1595.3	1677.6	1762.3	1861.1	1917.6	1955.2	1981.1	2004.7	2249.4	2089.4
52.5°	1654.1	1663.5	1755.3	1847.0	1974.1	2056.4	2150.5	2148.2	2150.5	2392.9	2251.7
55°	1752.9	1755.3	1809.4	1915.2	2087.0	2237.6	2367.0	2381.1	2341.1	2571.7	2437.6
57.5°	1865.8	1875.2	1922.3	2002.3	2176.4	2411.7	2609.3	2637.6	2529.3	2717.6	2607.0
60°	1971.7	1978.8	2051.7	2143.5	2331.7	2630.5	2854.0	2887.0	2769.3	2896.4	2783.5
62.5°	1851.7	1887.0	2016.4	2225.8	2604.6	2962.3	3164.6	3185.8	3002.3	3077.6	2971.7
65°	1482.3	1505.8	1691.7	2030.5	2623.5	3564.6	3644.6	3588.1	3322.3	3310.5	3256.4
67.5°	825.9	844.7	971.7	1327.0	2209.4	3790.5	4677.5	4263.4	3818.7	3661.1	3642.3
70°	651.7	656.5	672.9	745.9	1225.9	3341.1	5491.6	5510.5	4630.5	4143.4	3724.6
72.5°	529.4	527.0	576.5	640.0	724.7	2004.7	5235.2	5959.9	5251.6	4016.4	3244.6
75°	404.7	411.8	475.3	567.0	663.5	943.5	3905.8	4903.4	4919.9	3743.4	2736.4
77.5°	308.2	310.6	381.2	501.2	649.4	665.9	2548.2	3654.0	3670.5	2898.8	1508.2
80°	230.6	230.6	289.4	423.5	632.9	614.1	1569.4	2534.1	2294.1	1018.8	329.4
82.5°	131.8	141.2	192.9	322.3	574.1	590.6	884.7	1451.7	969.4	277.6	152.9
85°	70.6	72.9	117.6	216.5	472.9	564.7	675.3	722.3	385.9	148.2	70.6
87.5°	25.9	25.9	54.1	110.6	298.8	418.8	536.5	461.2	221.2	68.2	35.3
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°	1760.0	1760.0	1760.0	1760.0	1760.0	1760.0	1760.0	1760.0	1760.0	1760.0	1760.0
2.5°	1757.6	1748.2	1741.1	1748.2	1722.3	1710.5	1724.7	1717.6	1703.5	1696.4	1691.7
5°	1722.3	1710.5	1698.8	1691.7	1663.5	1635.3	1621.1	1592.9	1569.4	1576.4	1562.3
7.5°	1684.7	1672.9	1637.6	1604.7	1548.2	1491.7	1465.8	1425.8	1411.7	1400.0	1392.9
10°	1637.6	1616.4	1562.3	1496.4	1414.1	1350.6	1284.7	1237.6	1188.2	1167.0	1174.1
12.5°	1578.8	1567.0	1482.3	1381.1	1265.9	1160.0	1082.3	1007.0	941.2	905.9	896.4
15°	1552.9	1517.6	1395.3	1261.1	1115.3	983.5	868.2	736.5	658.8	621.2	621.2
17.5°	1524.7	1458.8	1312.9	1129.4	962.3	792.9	630.6	510.6	449.4	428.2	428.2
20°	1480.0	1407.0	1216.4	1004.7	802.3	597.6	451.8	385.9	367.0	352.9	355.3
22.5°	1447.0	1357.6	1127.0	882.3	635.3	444.7	355.3	334.1	327.1	322.3	324.7
25°	1409.4	1298.8	1032.9	750.6	498.8	350.6	308.2	298.8	303.5	305.9	305.9
27.5°	1378.8	1249.4	936.4	609.4	376.5	296.5	277.6	275.3	284.7	289.4	291.8
30°	1357.6	1204.7	842.3	480.0	301.2	263.5	254.1	254.1	265.9	270.6	272.9
32.5°	1336.4	1167.0	741.2	367.0	256.5	235.3	232.9	235.3	242.3	242.3	244.7
35°	1343.5	1131.7	644.7	296.5	230.6	216.5	216.5	216.5	218.8	221.2	221.2
37.5°	1357.6	1122.3	541.2	249.4	211.8	202.3	202.3	200.0	202.3	200.0	202.3
40°	1371.7	1108.2	447.0	221.2	200.0	192.9	190.6	185.9	183.5	183.5	185.9
42.5°	1430.6	1127.0	367.0	202.3	190.6	185.9	178.8	174.1	171.8	171.8	171.8
45°	1505.8	1162.3	303.5	192.9	183.5	171.8	167.1	164.7	160.0	162.3	164.7
47.5°	1618.8	1216.4	265.9	185.9	176.5	162.3	157.6	152.9	152.9	157.6	157.6
50°	1767.0	1305.9	242.3	178.8	169.4	155.3	148.2	145.9	145.9	152.9	152.9
52.5°	1927.0	1409.4	232.9	176.5	162.3	148.2	141.2	138.8	138.8	148.2	148.2
55°	2087.0	1536.4	240.0	176.5	157.6	141.2	134.1	129.4	131.8	138.8	138.8
57.5°	2263.5	1672.9	275.3	176.5	152.9	138.8	129.4	122.3	124.7	127.1	127.1
60°	2456.4	1851.7	336.5	176.5	150.6	134.1	122.3	112.9	112.9	115.3	115.3
62.5°	2651.7	2028.2	423.5	178.8	152.9	131.8	112.9	103.5	101.2	103.5	103.5
65°	2908.2	2310.5	510.6	178.8	160.0	127.1	105.9	94.1	91.8	91.8	94.1
67.5°	3268.2	2512.9	395.3	171.8	164.7	127.1	98.8	87.1	82.4	82.4	82.4
70°	3077.6	2119.9	251.8	160.0	157.6	131.8	94.1	80.0	75.3	72.9	72.9
72.5°	2635.2	1696.4	202.3	150.6	145.9	129.4	89.4	75.3	68.2	65.9	65.9
75°	2112.9	1338.8	176.5	136.5	127.1	108.2	82.4	68.2	63.5	58.8	58.8
77.5°	1035.3	560.0	134.1	120.0	108.2	82.4	72.9	63.5	56.5	51.8	51.8
80°	258.8	195.3	98.8	94.1	80.0	63.5	58.8	54.1	49.4	44.7	44.7
82.5°	138.8	115.3	70.6	63.5	54.1	44.7	44.7	42.4	40.0	35.3	32.9
85°	70.6	68.2	47.1	42.4	35.3	28.2	30.6	30.6	28.2	21.2	21.2
87.5°	37.6	37.6	23.5	18.8	16.5	14.1	14.1	14.1	11.8	9.4	9.4
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)