

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: P675603

Luminaire Tested: **CCW-SA-1F-830-U-SL3**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675603
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-830-U-SL3
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/
SL3 distribution lens
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

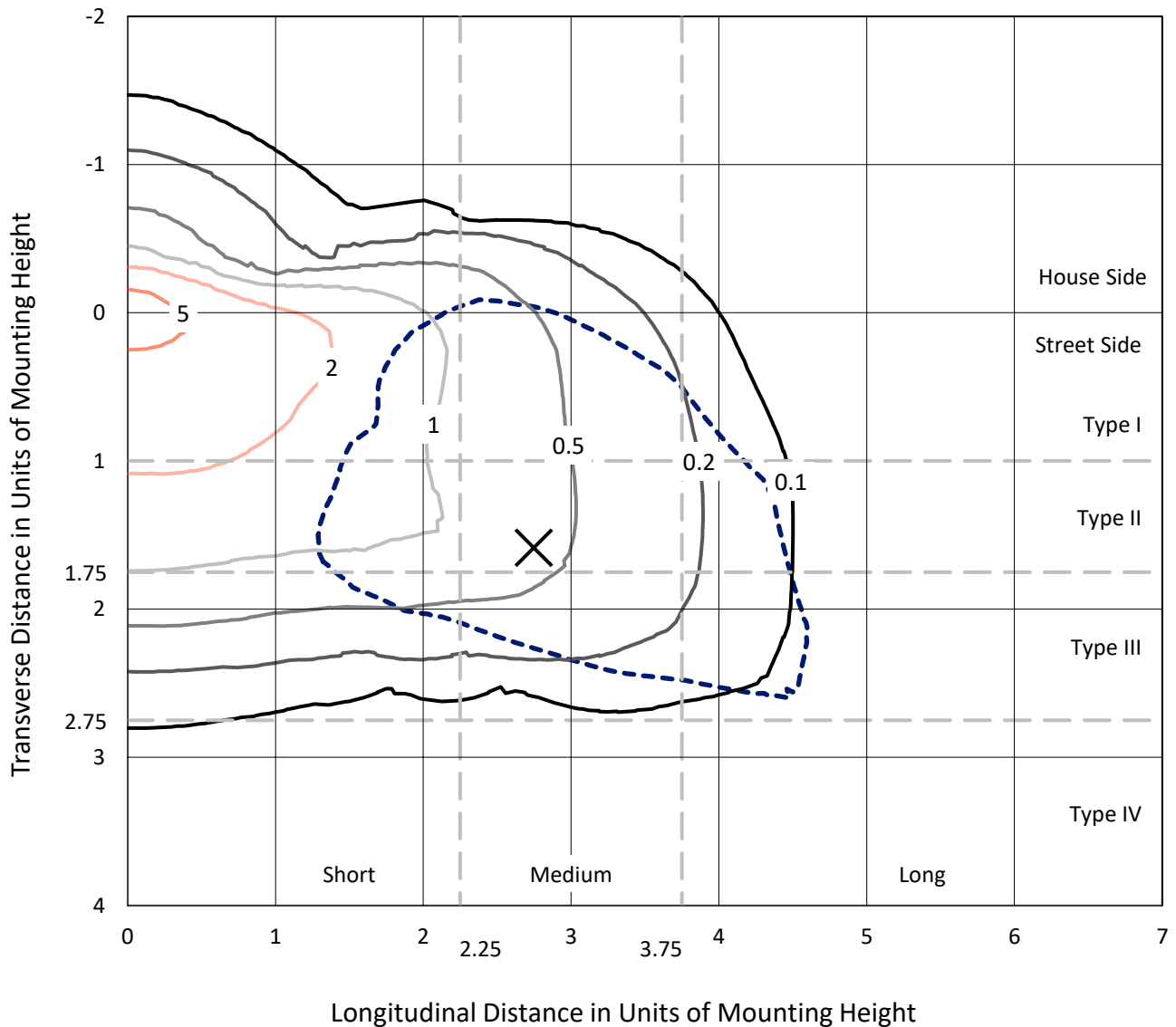
Lumens per Lamp: N/A
Luminaire Lumens: 5890.6 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

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

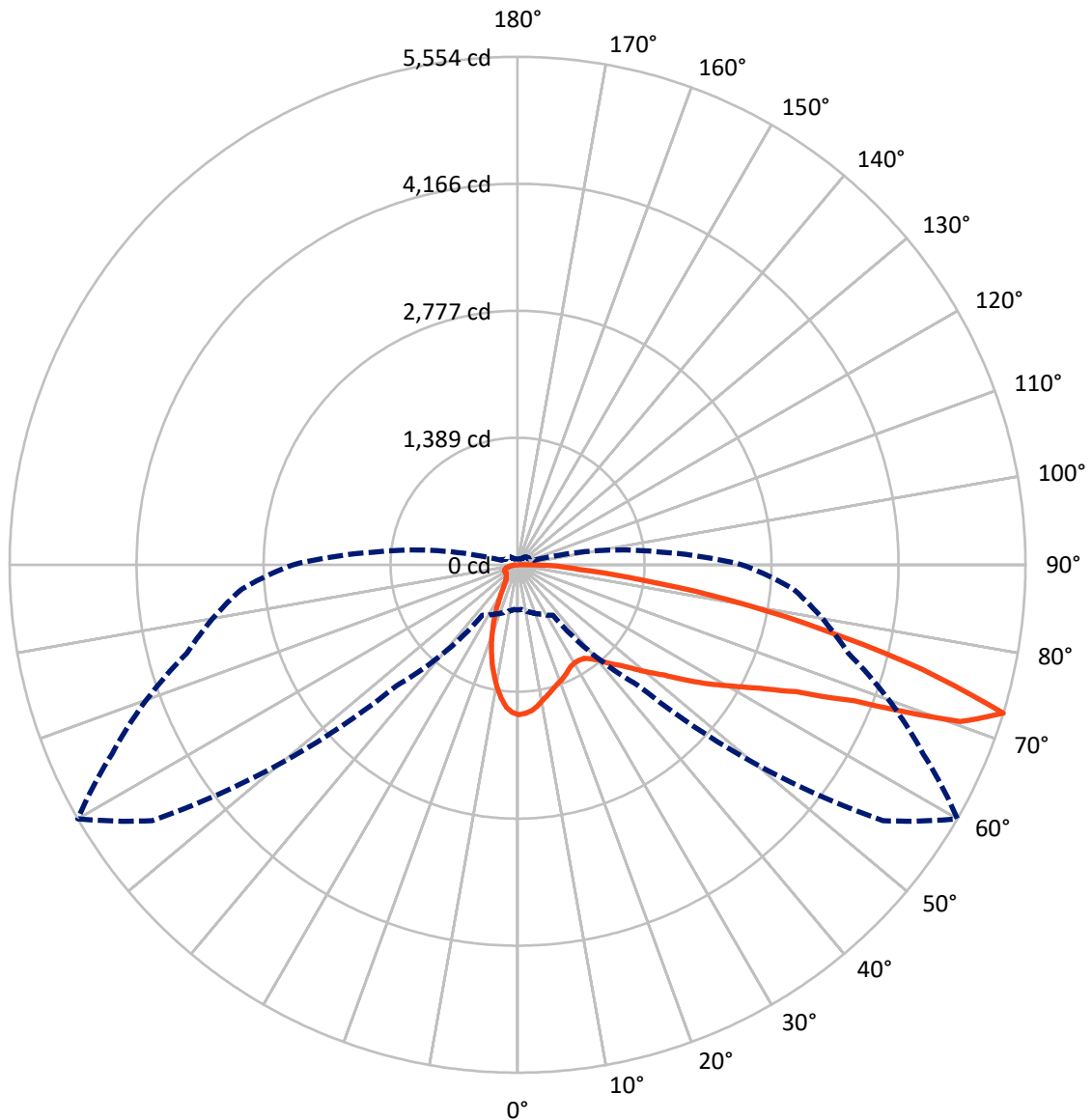
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.3 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	1011.9	0.0	1011.9
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	4878.7	0.0	4878.7
	% Fixture	82.8	0.0	82.8
Total	Lumens	5890.6	0.0	5890.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.2	2.4
10°-20°	322.4	5.5
20°-30°	412.6	7.0
30°-40°	527.8	9.0
40°-50°	723.9	12.3
50°-60°	1047.1	17.8
60°-70°	1436.4	24.4
70°-80°	1077.9	18.3
80°-90°	200.3	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°	5890.6	100.0
0°-180°	5890.6	100.0

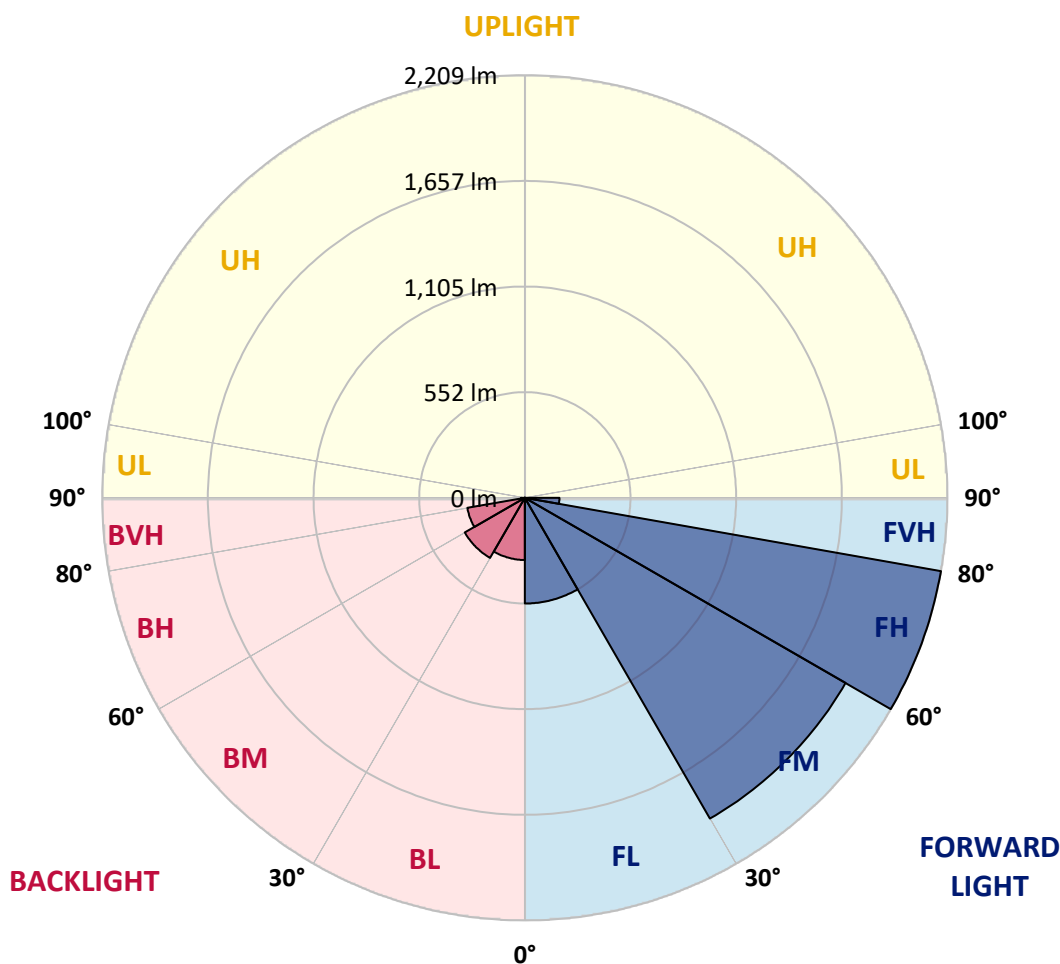


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	552.3	9.4			
FM (30°-60°)	1936.2	32.9			
FH (60°-80°)	2209.3	37.5			G2/5000
FVH (80°-90°)	180.8	3.1			G2/225
BL (0°-30°)	324.8	5.5	B1/500		
BM (30°-60°)	362.6	6.2	B1/1000		
BH (60°-80°)	304.9	5.2	B1/500		G1/500
BVH (80°-90°)	19.5	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°	1640.2	1640.2	1640.2	1640.2	1640.2	1640.2	1640.2	1640.2	1640.2	1640.2	1640.2
2.5°	1605.1	1620.5	1624.9	1624.9	1638.0	1622.7	1644.6	1627.1	1631.5	1638.0	1633.7
5°	1528.4	1554.7	1539.4	1567.9	1556.9	1576.6	1603.0	1603.0	1596.4	1609.5	1598.6
7.5°	1453.8	1445.1	1471.4	1471.4	1488.9	1515.2	1537.2	1559.1	1561.3	1565.7	1563.5
10°	1353.0	1363.9	1377.1	1394.6	1416.6	1442.9	1488.9	1506.5	1510.9	1537.2	1530.6
12.5°	1269.6	1285.0	1293.8	1328.9	1348.6	1385.9	1438.5	1462.6	1464.8	1502.1	1502.1
15°	1208.2	1217.0	1236.8	1249.9	1293.8	1346.4	1396.8	1418.8	1442.9	1482.3	1471.4
17.5°	1166.6	1177.5	1186.3	1203.9	1245.5	1289.4	1368.3	1381.5	1410.0	1467.0	1453.8
20°	1142.5	1144.7	1157.8	1168.8	1206.1	1247.7	1317.9	1353.0	1390.2	1440.7	1427.5
22.5°	1146.8	1138.1	1135.9	1151.2	1157.8	1197.3	1282.8	1320.1	1372.7	1431.9	1410.0
25°	1155.6	1157.8	1153.4	1140.3	1142.5	1177.5	1234.6	1282.8	1342.0	1429.7	1385.9
27.5°	1177.5	1188.5	1171.0	1157.8	1144.7	1157.8	1217.0	1252.1	1317.9	1440.7	1383.7
30°	1199.5	1210.4	1206.1	1186.3	1160.0	1155.6	1197.3	1241.1	1304.7	1449.5	1383.7
32.5°	1232.4	1247.7	1232.4	1238.9	1208.2	1188.5	1203.9	1243.3	1317.9	1480.2	1385.9
35°	1269.6	1282.8	1287.2	1271.8	1265.3	1228.0	1236.8	1256.5	1331.0	1515.2	1407.8
37.5°	1311.3	1326.7	1339.8	1342.0	1320.1	1298.2	1293.8	1304.7	1363.9	1576.6	1431.9
40°	1339.8	1348.6	1374.9	1396.8	1403.4	1372.7	1370.5	1370.5	1423.1	1631.5	1475.8
42.5°	1388.1	1383.7	1420.9	1460.4	1471.4	1453.8	1458.2	1475.8	1506.5	1710.4	1545.9
45°	1412.2	1407.8	1451.6	1517.4	1567.9	1559.1	1563.5	1570.1	1598.6	1835.4	1664.4
47.5°	1445.1	1449.5	1513.0	1587.6	1640.2	1670.9	1695.1	1692.9	1714.8	1962.6	1795.9
50°	1478.0	1486.7	1563.5	1642.4	1734.5	1787.2	1822.2	1846.4	1868.3	2096.3	1947.2
52.5°	1541.6	1550.3	1635.8	1721.4	1839.8	1916.5	2004.2	2002.0	2004.2	2230.1	2098.5
55°	1633.7	1635.8	1686.3	1785.0	1945.0	2085.4	2206.0	2219.1	2181.9	2396.8	2271.8
57.5°	1738.9	1747.7	1791.5	1866.1	2028.4	2247.6	2431.8	2458.2	2357.3	2532.7	2429.6
60°	1837.6	1844.2	1912.1	1997.7	2173.1	2451.6	2659.9	2690.6	2581.0	2699.4	2594.1
62.5°	1725.8	1758.6	1879.2	2074.4	2427.5	2760.8	2949.3	2969.1	2798.0	2868.2	2769.5
65°	1381.5	1403.4	1576.6	1892.4	2445.0	3322.1	3396.7	3344.1	3096.3	3085.3	3034.9
67.5°	769.7	787.2	905.6	1236.8	2059.1	3532.6	4359.3	3973.4	3559.0	3412.0	3394.5
70°	607.4	611.8	627.1	695.1	1142.5	3113.8	5118.0	5135.6	4315.5	3861.6	3471.2
72.5°	493.4	491.2	537.2	596.4	675.4	1868.3	4879.0	5554.4	4894.4	3743.1	3023.9
75°	377.2	383.7	443.0	528.5	618.4	879.3	3640.1	4569.8	4585.2	3488.8	2550.3
77.5°	287.3	289.5	355.2	467.1	605.2	620.6	2374.8	3405.5	3420.8	2701.6	1405.6
80°	214.9	214.9	269.7	394.7	589.9	572.3	1462.6	2361.7	2138.0	949.5	307.0
82.5°	122.8	131.6	179.8	300.4	535.0	550.4	824.5	1353.0	903.4	258.8	142.5
85°	65.8	68.0	109.6	201.7	440.8	526.3	629.3	673.2	359.6	138.1	65.8
87.5°	24.1	24.1	50.4	103.1	278.5	390.3	500.0	429.8	206.1	63.6	32.9
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°	1640.2	1640.2	1640.2	1640.2	1640.2	1640.2	1640.2	1640.2	1640.2	1640.2	1640.2
2.5°	1638.0	1629.3	1622.7	1629.3	1605.1	1594.2	1607.3	1600.8	1587.6	1581.0	1576.6
5°	1605.1	1594.2	1583.2	1576.6	1550.3	1524.0	1510.9	1484.5	1462.6	1469.2	1456.0
7.5°	1570.1	1559.1	1526.2	1495.5	1442.9	1390.2	1366.1	1328.9	1315.7	1304.7	1298.2
10°	1526.2	1506.5	1456.0	1394.6	1317.9	1258.7	1197.3	1153.4	1107.4	1087.6	1094.2
12.5°	1471.4	1460.4	1381.5	1287.2	1179.7	1081.1	1008.7	938.5	877.1	844.2	835.5
15°	1447.3	1414.4	1300.3	1175.4	1039.4	916.6	809.2	686.4	614.0	578.9	578.9
17.5°	1420.9	1359.6	1223.6	1052.6	896.9	739.0	587.7	475.8	418.8	399.1	399.1
20°	1379.3	1311.3	1133.7	936.3	747.8	557.0	421.0	359.6	342.1	328.9	331.1
22.5°	1348.6	1265.3	1050.4	822.3	592.1	414.4	331.1	311.4	304.8	300.4	302.6
25°	1313.5	1210.4	962.6	699.5	464.9	326.7	287.3	278.5	282.9	285.1	285.1
27.5°	1285.0	1164.4	872.7	567.9	350.9	276.3	258.8	256.6	265.3	269.7	271.9
30°	1265.3	1122.7	785.0	447.3	280.7	245.6	236.8	236.8	247.8	252.2	254.4
32.5°	1245.5	1087.6	690.7	342.1	239.0	219.3	217.1	219.3	225.9	225.9	228.1
35°	1252.1	1054.7	600.8	276.3	214.9	201.7	201.7	201.7	203.9	206.1	206.1
37.5°	1265.3	1046.0	504.3	232.4	197.4	188.6	188.6	186.4	188.6	186.4	188.6
40°	1278.4	1032.8	416.6	206.1	186.4	179.8	177.6	173.2	171.0	171.0	173.2
42.5°	1333.2	1050.4	342.1	188.6	177.6	173.2	166.7	162.3	160.1	160.1	160.1
45°	1403.4	1083.3	282.9	179.8	171.0	160.1	155.7	153.5	149.1	151.3	153.5
47.5°	1508.7	1133.7	247.8	173.2	164.5	151.3	146.9	142.5	142.5	146.9	146.9
50°	1646.8	1217.0	225.9	166.7	157.9	144.7	138.1	136.0	136.0	142.5	142.5
52.5°	1795.9	1313.5	217.1	164.5	151.3	138.1	131.6	129.4	129.4	138.1	138.1
55°	1945.0	1431.9	223.7	164.5	146.9	131.6	125.0	120.6	122.8	129.4	129.4
57.5°	2109.5	1559.1	256.6	164.5	142.5	129.4	120.6	114.0	116.2	118.4	118.4
60°	2289.3	1725.8	313.6	164.5	140.3	125.0	114.0	105.3	105.3	107.4	107.4
62.5°	2471.3	1890.2	394.7	166.7	142.5	122.8	105.3	96.5	94.3	96.5	96.5
65°	2710.3	2153.4	475.8	166.7	149.1	118.4	98.7	87.7	85.5	85.5	87.7
67.5°	3045.8	2341.9	368.4	160.1	153.5	118.4	92.1	81.1	76.7	76.7	76.7
70°	2868.2	1975.7	234.6	149.1	146.9	122.8	87.7	74.6	70.2	68.0	68.0
72.5°	2456.0	1581.0	188.6	140.3	136.0	120.6	83.3	70.2	63.6	61.4	61.4
75°	1969.2	1247.7	164.5	127.2	118.4	100.9	76.7	63.6	59.2	54.8	54.8
77.5°	964.8	521.9	125.0	111.8	100.9	76.7	68.0	59.2	52.6	48.2	48.2
80°	241.2	182.0	92.1	87.7	74.6	59.2	54.8	50.4	46.0	41.7	41.7
82.5°	129.4	107.4	65.8	59.2	50.4	41.7	41.7	39.5	37.3	32.9	30.7
85°	65.8	63.6	43.9	39.5	32.9	26.3	28.5	28.5	26.3	19.7	19.7
87.5°	35.1	35.1	21.9	17.5	15.3	13.2	13.2	13.2	11.0	8.8	8.8
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)