

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: P675635

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675635
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-850-U-SL3
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
SL3 distribution lens
Light Source: (16) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

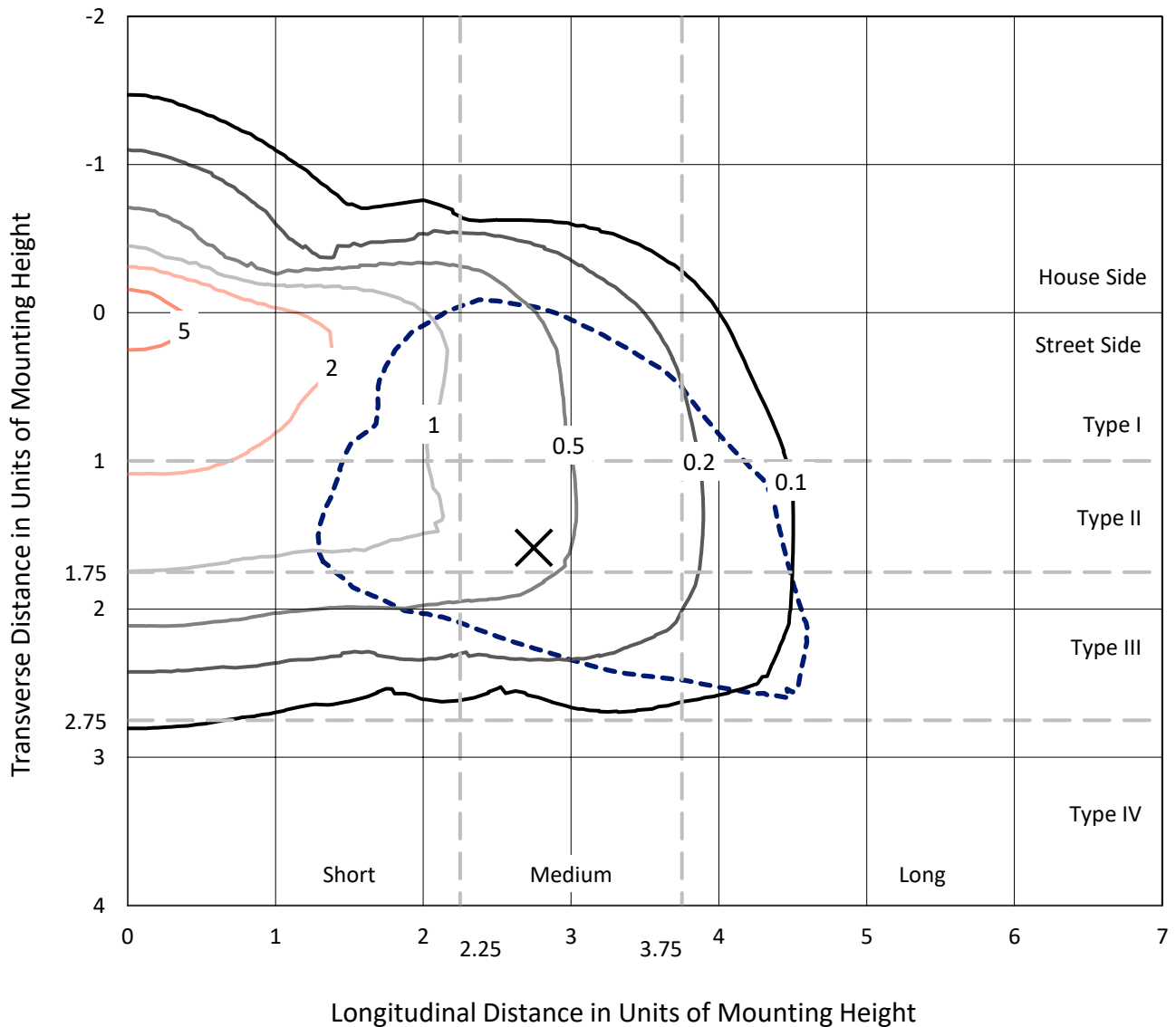
Lumens per Lamp: N/A
Luminaire Lumens: 5898.8 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 56.1
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

REPORT NUMBER: P675635
 CATALOG NUMBER: CCW-SA-1E-850-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

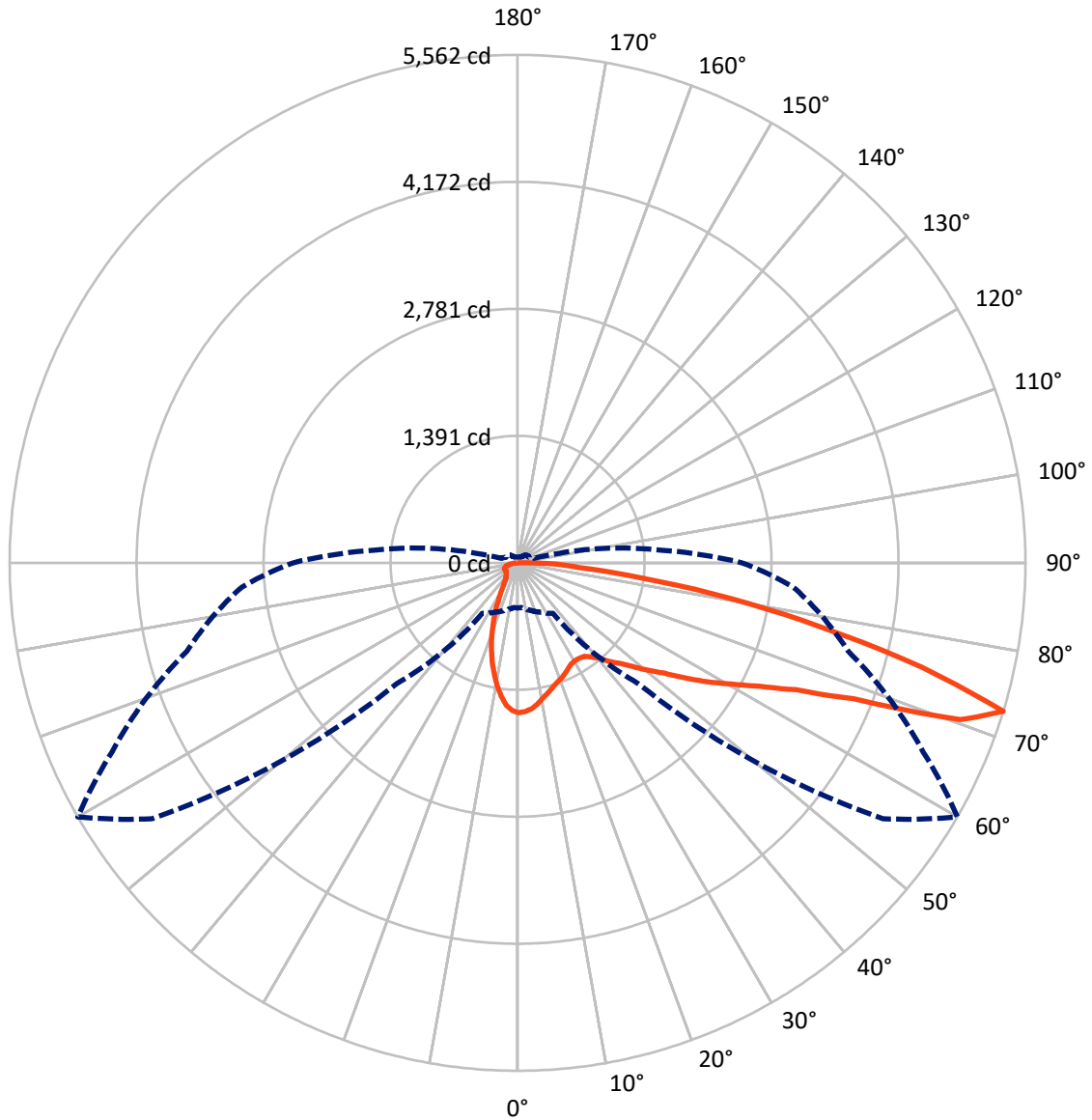
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.3 fc
 Type III - Medium - N/A

REPORT NUMBER: P675635
CATALOG NUMBER: CCW-SA-1E-850-U-SL3

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	1013.3	0.0	1013.3
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	4885.5	0.0	4885.5
	% Fixture	82.8	0.0	82.8
Total	Lumens	5898.8	0.0	5898.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.4	2.4
10°-20°	322.8	5.5
20°-30°	413.2	7.0
30°-40°	528.6	9.0
40°-50°	724.9	12.3
50°-60°	1048.5	17.8
60°-70°	1438.4	24.4
70°-80°	1079.4	18.3
80°-90°	200.6	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°	5898.8	100.0
0°-180°	5898.8	100.0

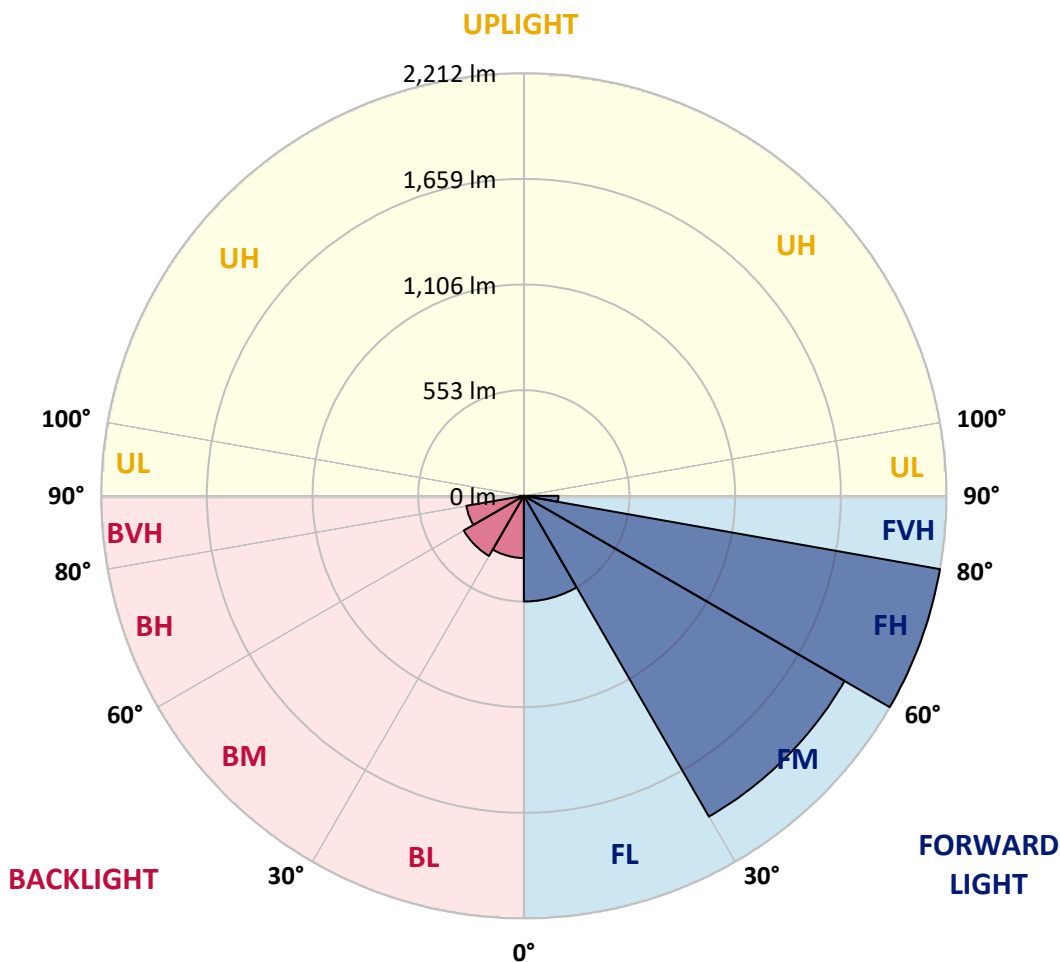


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	553.1	9.4			
FM (30°-60°)	1938.9	32.9			
FH (60°-80°)	2212.4	37.5			G2/5000
FVH (80°-90°)	181.1	3.1			G2/225
BL (0°-30°)	325.3	5.5	B1/500		
BM (30°-60°)	363.1	6.2	B1/1000		
BH (60°-80°)	305.4	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





REPORT NUMBER: P675635

CATALOG NUMBER: CCW-SA-1E-850-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1642.5	1642.5	1642.5	1642.5	1642.5	1642.5	1642.5	1642.5	1642.5	1642.5	1642.5
2.5°	1607.4	1622.8	1627.2	1627.2	1640.3	1625.0	1646.9	1629.4	1633.7	1640.3	1635.9
5°	1530.5	1556.9	1541.5	1570.1	1559.1	1578.8	1605.2	1605.2	1598.6	1611.8	1600.8
7.5°	1455.9	1447.1	1473.4	1473.4	1491.0	1517.4	1539.3	1561.3	1563.5	1567.9	1565.7
10°	1354.9	1365.8	1379.0	1396.6	1418.5	1444.9	1491.0	1508.6	1513.0	1539.3	1532.7
12.5°	1271.4	1286.8	1295.6	1330.7	1350.5	1387.8	1440.5	1464.7	1466.9	1504.2	1504.2
15°	1209.9	1218.7	1238.5	1251.7	1295.6	1348.3	1398.8	1420.7	1444.9	1484.4	1473.4
17.5°	1168.2	1179.2	1188.0	1205.5	1247.3	1291.2	1370.2	1383.4	1412.0	1469.1	1455.9
20°	1144.1	1146.3	1159.4	1170.4	1207.7	1249.5	1319.7	1354.9	1392.2	1442.7	1429.5
22.5°	1148.5	1139.7	1137.5	1152.8	1159.4	1199.0	1284.6	1321.9	1374.6	1433.9	1412.0
25°	1157.2	1159.4	1155.0	1141.9	1144.1	1179.2	1236.3	1284.6	1343.9	1431.7	1387.8
27.5°	1179.2	1190.2	1172.6	1159.4	1146.3	1159.4	1218.7	1253.9	1319.7	1442.7	1385.6
30°	1201.2	1212.1	1207.7	1188.0	1161.6	1157.2	1199.0	1242.9	1306.6	1451.5	1385.6
32.5°	1234.1	1249.5	1234.1	1240.7	1209.9	1190.2	1205.5	1245.1	1319.7	1482.2	1387.8
35°	1271.4	1284.6	1289.0	1273.6	1267.0	1229.7	1238.5	1258.2	1332.9	1517.4	1409.8
37.5°	1313.1	1328.5	1341.7	1343.9	1321.9	1300.0	1295.6	1306.6	1365.8	1578.8	1433.9
40°	1341.7	1350.5	1376.8	1398.8	1405.4	1374.6	1372.4	1372.4	1425.1	1633.7	1477.8
42.5°	1390.0	1385.6	1422.9	1462.5	1473.4	1455.9	1460.3	1477.8	1508.6	1712.8	1548.1
45°	1414.2	1409.8	1453.7	1519.6	1570.1	1561.3	1565.7	1572.3	1600.8	1838.0	1666.7
47.5°	1447.1	1451.5	1515.2	1589.8	1642.5	1673.3	1697.4	1695.2	1717.2	1965.3	1798.4
50°	1480.0	1488.8	1565.7	1644.7	1737.0	1789.7	1824.8	1848.9	1870.9	2099.3	1950.0
52.5°	1543.7	1552.5	1638.1	1723.8	1842.4	1919.2	2007.0	2004.8	2007.0	2233.2	2101.5
55°	1635.9	1638.1	1688.6	1787.5	1947.8	2088.3	2209.1	2222.2	2184.9	2400.1	2274.9
57.5°	1741.3	1750.1	1794.0	1868.7	2031.2	2250.8	2435.2	2461.6	2360.6	2536.3	2433.0
60°	1840.2	1846.7	1914.8	2000.5	2176.1	2455.0	2663.6	2694.4	2584.6	2703.1	2597.7
62.5°	1728.2	1761.1	1881.9	2077.3	2430.9	2764.6	2953.5	2973.2	2802.0	2872.2	2773.4
65°	1383.4	1405.4	1578.8	1895.1	2448.4	3326.8	3401.4	3348.7	3100.6	3089.6	3039.1
67.5°	770.8	788.3	906.9	1238.5	2061.9	3537.6	4365.4	3979.0	3563.9	3416.8	3399.2
70°	608.3	612.7	628.0	696.1	1144.1	3118.2	5125.2	5142.8	4321.5	3867.0	3476.1
72.5°	494.1	491.9	538.0	597.3	676.3	1870.9	4885.9	5562.2	4901.2	3748.4	3028.1
75°	377.7	384.3	443.6	529.2	619.2	880.6	3645.2	4576.2	4591.6	3493.7	2553.8
77.5°	287.7	289.9	355.7	467.7	606.1	621.4	2378.2	3410.2	3425.6	2705.3	1407.6
80°	215.2	215.2	270.1	395.3	590.7	573.1	1464.7	2365.0	2141.0	950.8	307.4
82.5°	123.0	131.8	180.1	300.8	535.8	551.2	825.7	1354.9	904.7	259.1	142.7
85°	65.9	68.1	109.8	202.0	441.4	527.0	630.2	674.1	360.1	138.3	65.9
87.5°	24.2	24.2	50.5	103.2	278.9	390.9	500.7	430.4	206.4	63.7	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



REPORT NUMBER: P675635
 CATALOG NUMBER: CCW-SA-1E-850-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1642.5	1642.5	1642.5	1642.5	1642.5	1642.5	1642.5	1642.5	1642.5	1642.5	1642.5
2.5°	1640.3	1631.5	1625.0	1631.5	1607.4	1596.4	1609.6	1603.0	1589.8	1583.2	1578.8
5°	1607.4	1596.4	1585.4	1578.8	1552.5	1526.1	1513.0	1486.6	1464.7	1471.2	1458.1
7.5°	1572.3	1561.3	1528.3	1497.6	1444.9	1392.2	1368.0	1330.7	1317.5	1306.6	1300.0
10°	1528.3	1508.6	1458.1	1396.6	1319.7	1260.4	1199.0	1155.0	1108.9	1089.2	1095.8
12.5°	1473.4	1462.5	1383.4	1289.0	1181.4	1082.6	1010.1	939.8	878.4	845.4	836.6
15°	1449.3	1416.4	1302.2	1177.0	1040.9	917.9	810.3	687.3	614.8	579.7	579.7
17.5°	1422.9	1361.5	1225.3	1054.0	898.1	740.0	588.5	476.5	419.4	399.7	399.7
20°	1381.2	1313.1	1135.3	937.6	748.8	557.8	421.6	360.1	342.6	329.4	331.6
22.5°	1350.5	1267.0	1051.8	823.5	592.9	415.0	331.6	311.8	305.2	300.8	303.0
25°	1315.3	1212.1	964.0	700.5	465.5	327.2	287.7	278.9	283.3	285.5	285.5
27.5°	1286.8	1166.0	874.0	568.7	351.3	276.7	259.1	256.9	265.7	270.1	272.3
30°	1267.0	1124.3	786.1	448.0	281.1	245.9	237.2	237.2	248.1	252.5	254.7
32.5°	1247.3	1089.2	691.7	342.6	239.4	219.6	217.4	219.6	226.2	226.2	228.4
35°	1253.9	1056.2	601.7	276.7	215.2	202.0	202.0	202.0	204.2	206.4	206.4
37.5°	1267.0	1047.4	505.1	232.8	197.6	188.8	188.8	186.7	188.8	186.7	188.8
40°	1280.2	1034.3	417.2	206.4	186.7	180.1	177.9	173.5	171.3	171.3	173.5
42.5°	1335.1	1051.8	342.6	188.8	177.9	173.5	166.9	162.5	160.3	160.3	160.3
45°	1405.4	1084.8	283.3	180.1	171.3	160.3	155.9	153.7	149.3	151.5	153.7
47.5°	1510.8	1135.3	248.1	173.5	164.7	151.5	147.1	142.7	142.7	147.1	147.1
50°	1649.1	1218.7	226.2	166.9	158.1	144.9	138.3	136.1	136.1	142.7	142.7
52.5°	1798.4	1315.3	217.4	164.7	151.5	138.3	131.8	129.6	129.6	138.3	138.3
55°	1947.8	1433.9	224.0	164.7	147.1	131.8	125.2	120.8	123.0	129.6	129.6
57.5°	2112.4	1561.3	256.9	164.7	142.7	129.6	120.8	114.2	116.4	118.6	118.6
60°	2292.5	1728.2	314.0	164.7	140.5	125.2	114.2	105.4	105.4	107.6	107.6
62.5°	2474.8	1892.9	395.3	166.9	142.7	123.0	105.4	96.6	94.4	96.6	96.6
65°	2714.1	2156.4	476.5	166.9	149.3	118.6	98.8	87.8	85.6	85.6	87.8
67.5°	3050.1	2345.2	368.9	160.3	153.7	118.6	92.2	81.2	76.9	76.9	76.9
70°	2872.2	1978.5	235.0	149.3	147.1	123.0	87.8	74.7	70.3	68.1	68.1
72.5°	2459.4	1583.2	188.8	140.5	136.1	120.8	83.4	70.3	63.7	61.5	61.5
75°	1971.9	1249.5	164.7	127.4	118.6	101.0	76.9	63.7	59.3	54.9	54.9
77.5°	966.2	522.6	125.2	112.0	101.0	76.9	68.1	59.3	52.7	48.3	48.3
80°	241.5	182.3	92.2	87.8	74.7	59.3	54.9	50.5	46.1	41.7	41.7
82.5°	129.6	107.6	65.9	59.3	50.5	41.7	41.7	39.5	37.3	32.9	30.7
85°	65.9	63.7	43.9	39.5	32.9	26.4	28.5	28.5	26.4	19.8	19.8
87.5°	35.1	35.1	22.0	17.6	15.4	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)