

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: P675016

Luminaire Tested: **CCW-SA-1F-827-U-T3**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675016  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1F-827-U-T3  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/  
T3 distribution lens  
Light Source: (16) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

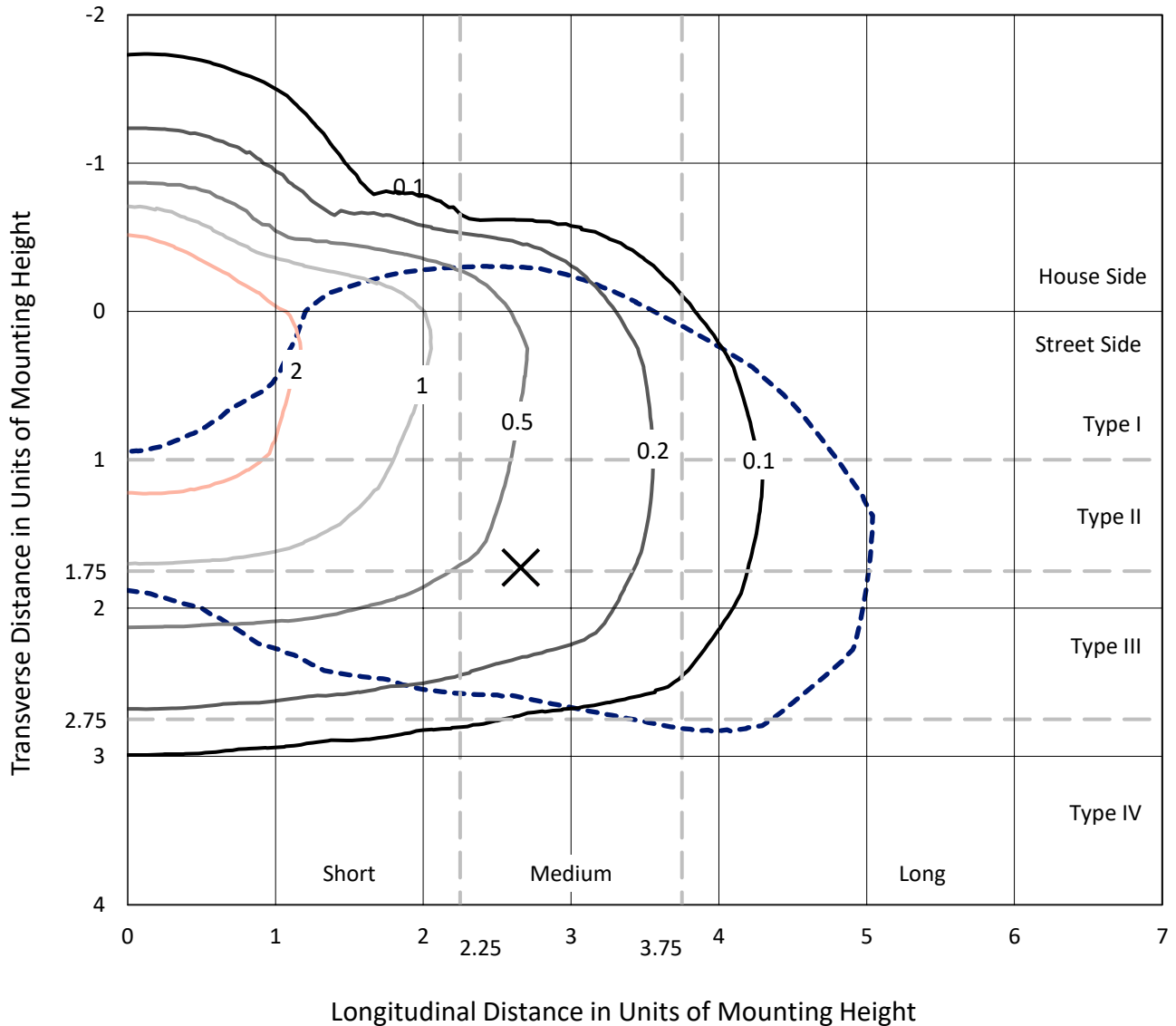
Lumens per Lamp: N/A  
Luminaire Lumens: 5568.8 lumens  
Efficiency: N/A  
Efficacy: 83.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 67  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

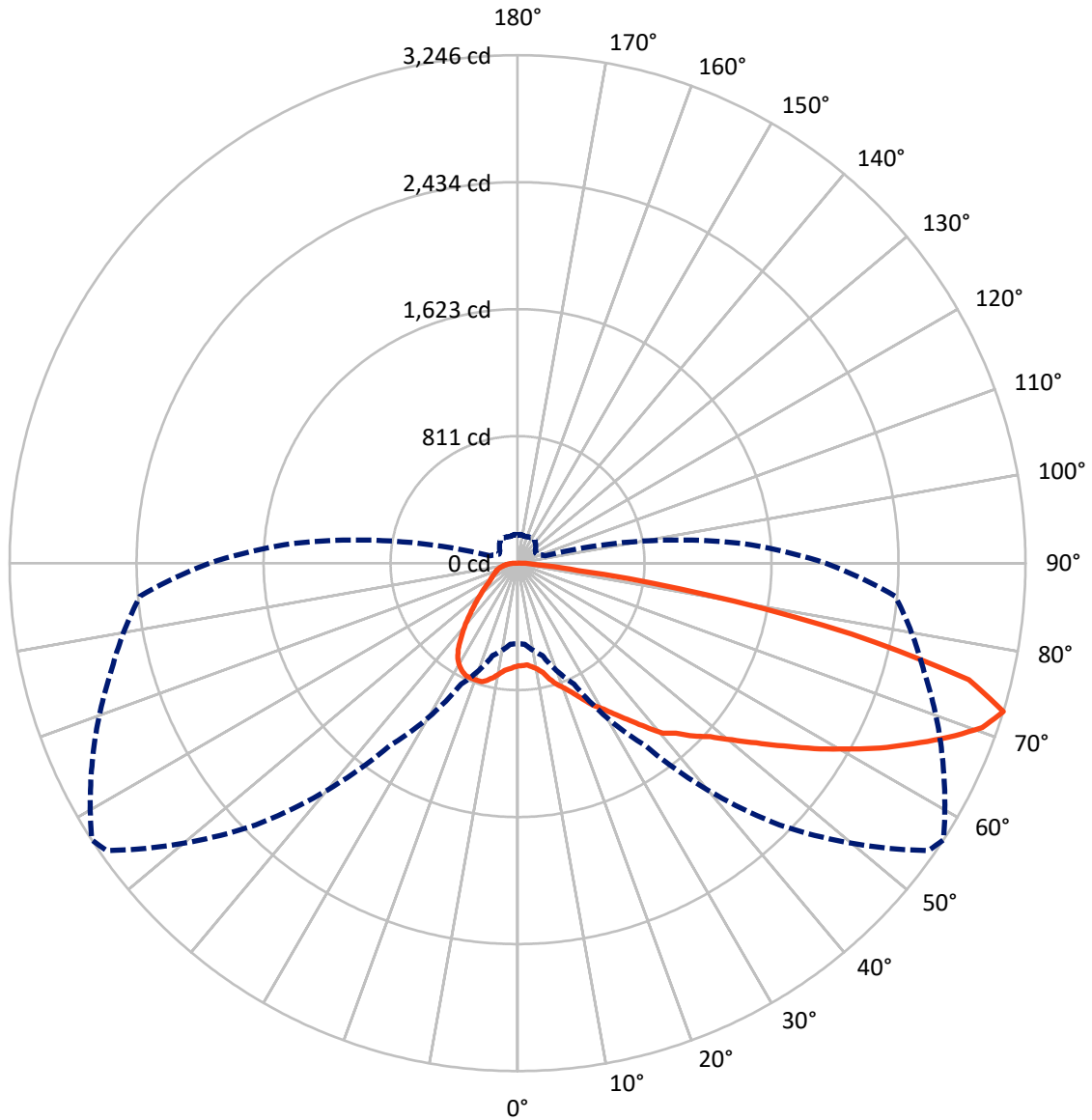
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.4 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1300.5	0.0	1300.5
	% Fixture	23.4	0.0	23.4
<b>Street Side</b>	Lumens	4268.3	0.0	4268.3
	% Fixture	76.6	0.0	76.6
<b>Total</b>	Lumens	5568.8	0.0	5568.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.2	1.2
10°-20°	219.9	3.9
20°-30°	402.0	7.2
30°-40°	589.7	10.6
40°-50°	812.0	14.6
50°-60°	1113.5	20.0
60°-70°	1342.2	24.1
70°-80°	894.1	16.1
80°-90°	130.2	2.3
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°	5568.8	100.0
0°-180°	5568.8	100.0

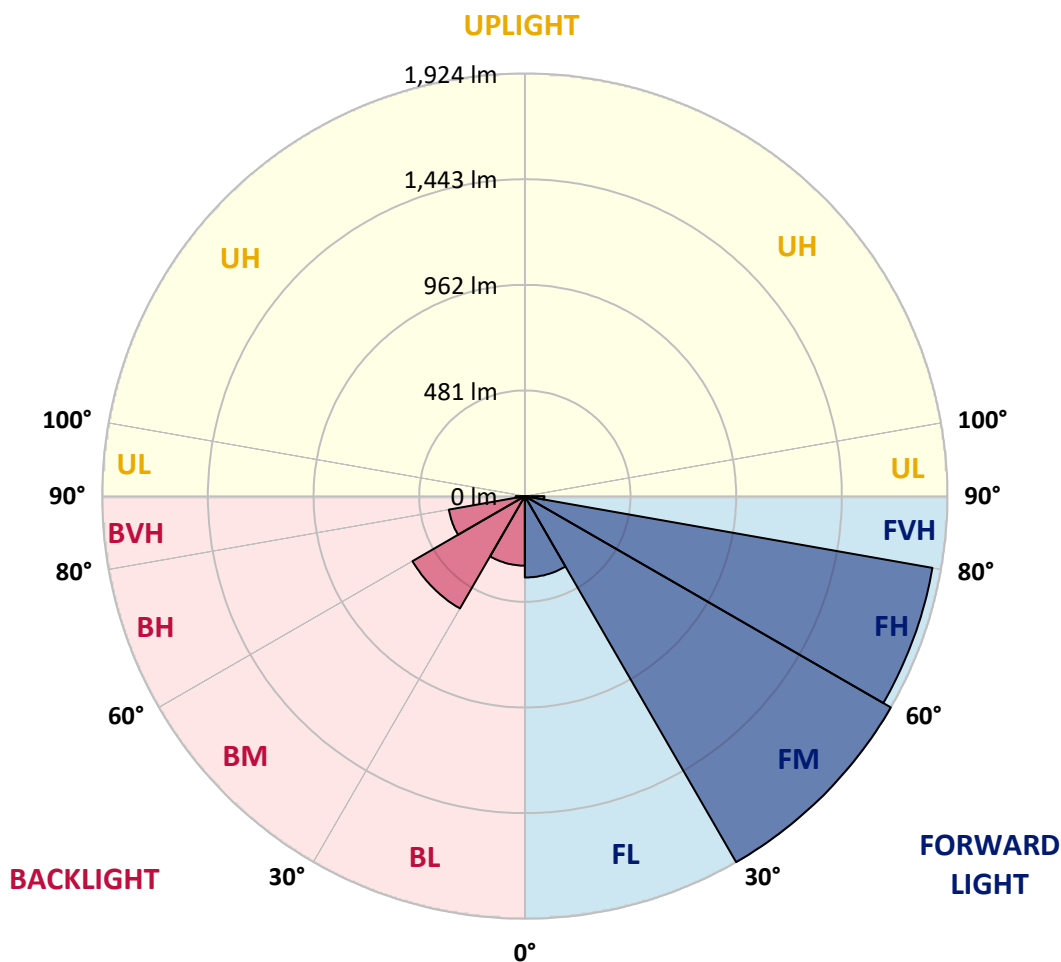


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	370.5	6.7			
FM (30°-60°)	1924.5	34.6			
FH (60°-80°)	1884.7	33.8			G2/5000
FVH (80°-90°)	88.7	1.6			G1/100
BL (0°-30°)	316.6	5.7	B1/500		
BM (30°-60°)	590.7	10.6	B1/1000		
BH (60°-80°)	351.6	6.3	B1/500		G1/500
BVH (80°-90°)	41.5	0.7			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°	57°	65°	75°	85°
0°	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3
2.5°	645.1	647.1	651.2	649.2	649.2	643.1	653.2	655.3	651.2	653.2	657.3
5°	645.1	649.2	655.3	651.2	653.2	651.2	647.1	653.2	653.2	655.3	661.4
7.5°	679.6	677.6	677.6	671.5	669.5	667.4	669.5	669.5	665.4	667.4	667.4
10°	718.2	718.2	714.1	714.1	710.0	699.9	689.8	687.7	681.6	683.7	683.7
12.5°	758.7	762.8	766.8	754.7	750.6	734.4	728.3	716.1	716.1	712.1	710.0
15°	809.4	803.4	807.4	803.4	793.2	777.0	766.8	768.9	754.7	750.6	744.5
17.5°	854.1	856.1	850.0	846.0	827.7	815.5	817.6	815.5	797.3	791.2	781.0
20°	906.8	904.8	904.8	892.6	876.4	860.2	854.1	852.0	856.1	843.9	819.6
22.5°	961.6	953.5	953.5	943.3	921.0	910.9	906.8	898.7	902.8	892.6	856.1
25°	1006.2	1006.2	1020.4	1000.1	988.0	967.7	959.6	961.6	963.6	943.3	900.7
27.5°	1065.1	1054.9	1069.1	1059.0	1052.9	1030.6	1020.4	1026.5	1022.5	1000.1	941.3
30°	1140.1	1142.1	1134.0	1119.8	1111.7	1095.5	1089.4	1083.3	1089.4	1061.0	985.9
32.5°	1233.4	1239.5	1219.2	1203.0	1188.8	1172.6	1160.4	1154.3	1160.4	1117.8	1020.4
35°	1341.0	1347.0	1330.8	1312.6	1296.3	1255.8	1245.6	1235.5	1213.2	1144.2	1052.9
37.5°	1440.4	1432.3	1428.2	1428.2	1397.8	1338.9	1332.8	1326.8	1284.2	1196.9	1097.5
40°	1507.3	1517.5	1513.4	1509.3	1505.3	1450.5	1438.3	1428.2	1357.2	1276.0	1160.4
42.5°	1582.4	1576.3	1592.5	1598.6	1584.4	1568.2	1519.5	1485.0	1422.1	1357.2	1253.7
45°	1671.6	1667.6	1673.7	1696.0	1675.7	1681.8	1600.6	1576.3	1497.2	1458.6	1371.4
47.5°	1750.8	1760.9	1791.3	1797.4	1781.2	1809.6	1696.0	1657.4	1606.7	1576.3	1493.1
50°	1785.2	1797.4	1866.4	1909.0	1911.0	1955.7	1791.3	1775.1	1706.1	1718.3	1645.3
52.5°	1756.8	1795.4	1878.6	1990.1	2059.1	2103.7	1917.1	1909.0	1846.1	1884.6	1811.6
55°	1783.2	1819.7	1874.5	2030.7	2205.2	2215.3	2091.6	2061.1	1998.3	2051.0	1984.1
57.5°	1795.4	1775.1	1878.6	2075.3	2312.7	2339.1	2257.9	2235.6	2186.9	2237.6	2199.1
60°	1700.0	1724.4	1821.8	2063.2	2318.8	2470.9	2444.6	2412.1	2367.5	2414.1	2391.8
62.5°	1592.5	1608.7	1714.2	1990.1	2353.3	2566.3	2625.1	2600.8	2537.9	2578.5	2617.0
65°	1456.6	1458.6	1576.3	1860.3	2286.3	2621.1	2783.4	2781.3	2736.7	2726.5	2787.4
67.5°	1290.2	1306.5	1399.8	1722.4	2195.0	2681.9	2939.6	2970.0	2880.7	2801.6	2823.9
70°	990.0	1006.2	1095.5	1412.0	2008.4	2663.7	3132.3	3148.5	2974.0	2773.2	2716.4
72.5°	515.3	519.3	610.6	852.0	1424.1	2365.4	3203.3	3245.9	2998.4	2690.0	2422.2
75°	170.4	170.4	209.0	324.6	671.5	1513.4	2901.0	2978.1	2878.7	2483.1	1982.0
77.5°	101.4	103.5	123.7	162.3	267.8	604.5	2044.9	2180.8	2355.3	2111.9	1448.5
80°	73.0	75.1	93.3	111.6	160.3	194.8	1026.5	1215.2	1446.5	1359.2	772.9
82.5°	54.8	54.8	73.0	83.2	109.5	115.6	286.0	391.5	624.8	486.9	213.0
85°	56.8	56.8	56.8	58.8	75.1	66.9	119.7	127.8	182.6	160.3	58.8
87.5°	20.3	22.3	56.8	38.5	38.5	28.4	46.7	50.7	64.9	66.9	22.3
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°	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3
2.5°	659.3	659.3	661.4	661.4	665.4	669.5	675.6	671.5	671.5	673.5	671.5
5°	657.3	659.3	665.4	675.6	679.6	681.6	693.8	693.8	693.8	697.9	697.9
7.5°	665.4	669.5	679.6	689.8	691.8	697.9	714.1	718.2	728.3	732.4	734.4
10°	685.7	691.8	699.9	712.1	720.2	728.3	740.5	754.7	752.6	764.8	766.8
12.5°	716.1	714.1	728.3	740.5	748.6	760.8	764.8	764.8	764.8	764.8	768.9
15°	740.5	744.5	756.7	764.8	775.0	772.9	764.8	756.7	758.7	756.7	756.7
17.5°	777.0	777.0	787.1	789.2	793.2	772.9	760.8	760.8	766.8	766.8	762.8
20°	813.5	811.5	815.5	813.5	787.1	762.8	760.8	762.8	764.8	762.8	760.8
22.5°	848.0	843.9	837.8	829.7	783.1	760.8	756.7	746.6	736.4	736.4	730.3
25°	878.4	874.4	858.1	833.8	781.0	748.6	728.3	704.0	691.8	685.7	693.8
27.5°	906.8	898.7	876.4	833.8	762.8	716.1	677.6	647.1	637.0	628.9	637.0
30°	945.4	931.2	900.7	827.7	734.4	665.4	612.7	576.1	566.0	553.8	557.9
32.5°	979.9	947.4	921.0	809.4	697.9	608.6	547.7	511.2	493.0	482.8	490.9
35°	1016.4	983.9	929.1	781.0	641.1	539.6	478.8	444.3	430.1	415.9	415.9
37.5°	1052.9	1034.6	941.3	728.3	572.1	474.7	419.9	393.6	369.2	342.8	342.8
40°	1130.0	1105.6	955.5	667.4	503.1	411.8	373.3	338.8	314.4	277.9	275.9
42.5°	1211.1	1158.4	955.5	594.4	442.3	367.2	330.7	294.2	249.5	227.2	229.2
45°	1314.6	1253.7	929.1	529.5	381.4	330.7	290.1	243.4	223.2	209.0	209.0
47.5°	1444.4	1349.1	896.7	458.5	332.7	298.2	247.5	219.1	204.9	192.7	190.7
50°	1598.6	1436.3	856.1	397.6	292.1	267.8	225.2	202.9	190.7	182.6	182.6
52.5°	1760.9	1564.1	827.7	342.8	259.7	227.2	209.0	194.8	184.6	178.5	176.5
55°	1925.2	1691.9	807.4	284.0	229.2	209.0	204.9	192.7	188.7	182.6	178.5
57.5°	2109.8	1797.4	803.4	243.4	204.9	200.8	209.0	198.8	192.7	186.6	180.6
60°	2308.6	1939.4	766.8	211.0	192.7	196.8	202.9	192.7	188.7	182.6	178.5
62.5°	2505.4	2044.9	667.4	186.6	180.6	184.6	192.7	184.6	178.5	180.6	182.6
65°	2586.6	2053.0	517.3	168.4	166.4	168.4	180.6	178.5	172.4	184.6	184.6
67.5°	2505.4	1980.0	365.2	152.2	152.2	162.3	182.6	186.6	180.6	196.8	194.8
70°	2320.8	1799.4	247.5	142.0	146.1	172.4	188.7	184.6	176.5	196.8	192.7
72.5°	1969.9	1440.4	180.6	131.9	138.0	164.3	186.6	182.6	176.5	184.6	176.5
75°	1478.9	1024.5	142.0	119.7	121.7	148.1	192.7	182.6	166.4	162.3	156.2
77.5°	988.0	632.9	109.5	105.5	105.5	129.8	184.6	170.4	150.1	144.0	142.0
80°	470.7	253.6	87.2	89.3	91.3	111.6	168.4	152.2	135.9	127.8	127.8
82.5°	150.1	95.3	73.0	73.0	73.0	91.3	140.0	127.8	117.7	111.6	101.4
85°	52.7	52.7	62.9	64.9	58.8	66.9	115.6	109.5	97.4	81.1	79.1
87.5°	20.3	30.4	42.6	50.7	36.5	46.7	83.2	77.1	71.0	52.7	50.7
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)