

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: P675160

Luminaire Tested: **CCW-SA-1F-827-U-T4FT**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675160
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-T4FT
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/
T4FT distribution lens
Light Source: (16) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

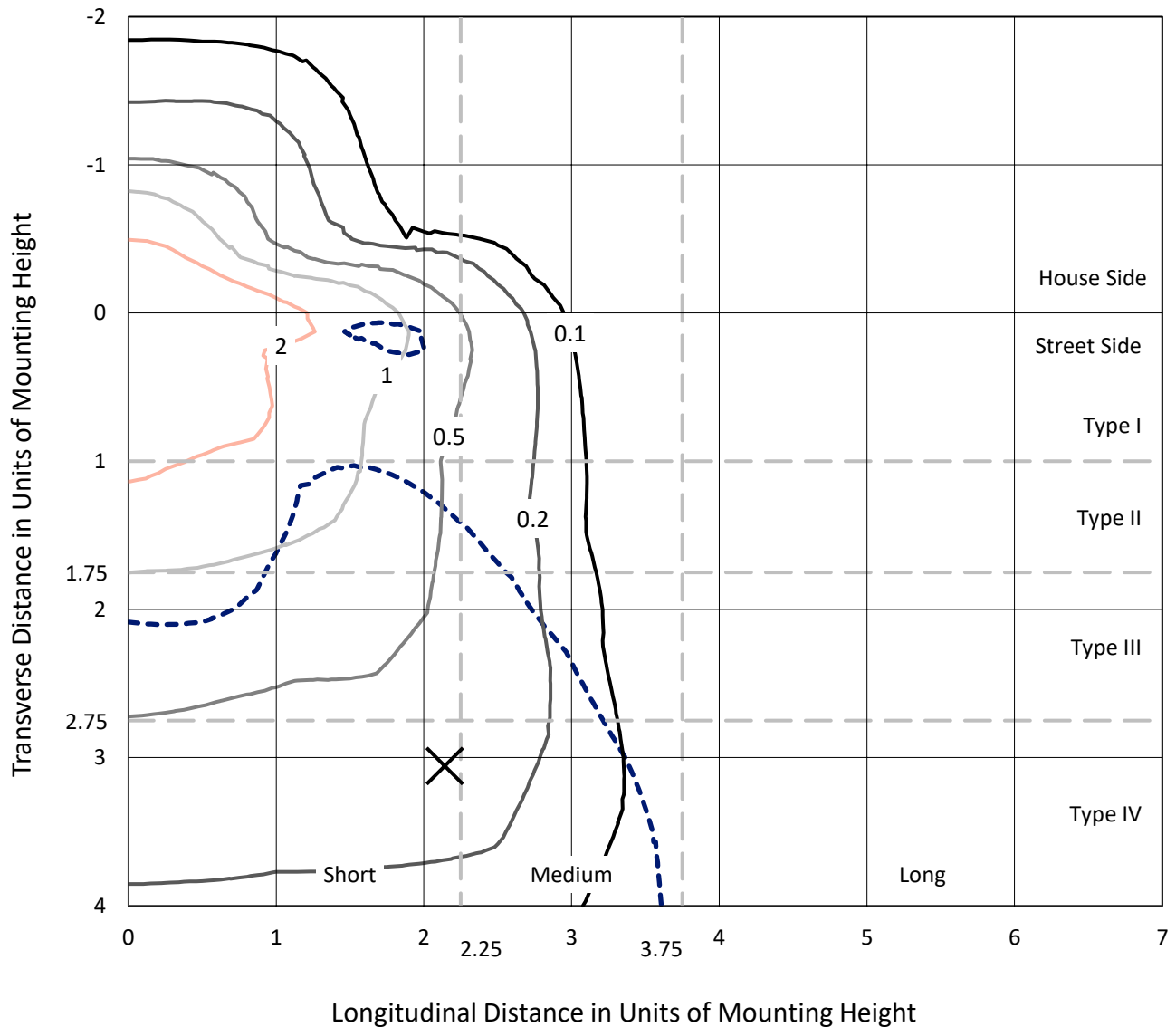
Lumens per Lamp: N/A
Luminaire Lumens: 5508.1 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

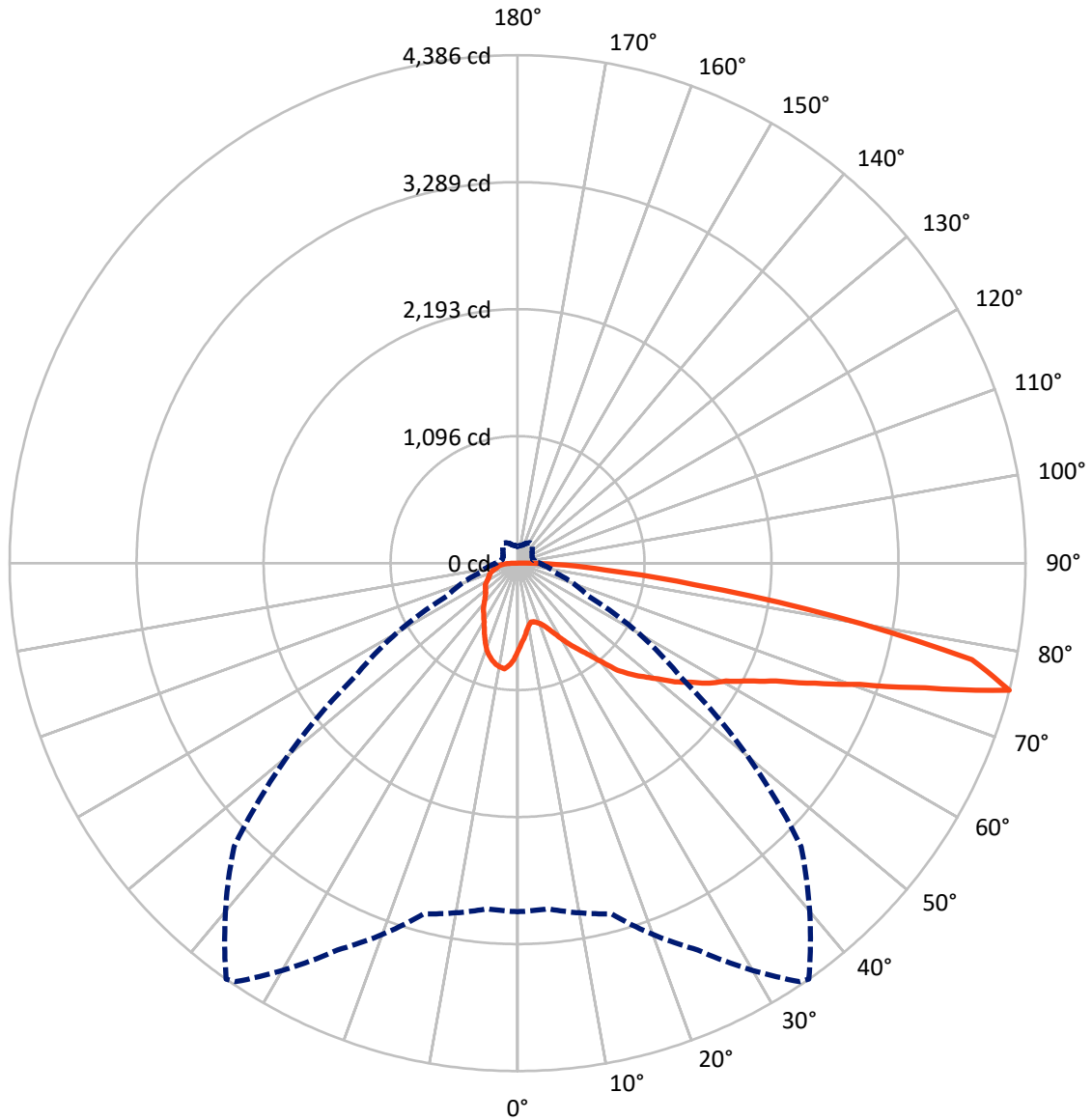
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1265.9	0.0	1265.9
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	4242.2	0.0	4242.2
	% Fixture	77.0	0.0	77.0
Total	Lumens	5508.1	0.0	5508.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.9	1.3
10°-20°	208.7	3.8
20°-30°	346.3	6.3
30°-40°	513.3	9.3
40°-50°	740.2	13.4
50°-60°	1017.8	18.5
60°-70°	1257.3	22.8
70°-80°	1150.2	20.9
80°-90°	202.5	3.7
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°	5508.1	100.0
0°-180°	5508.1	100.0



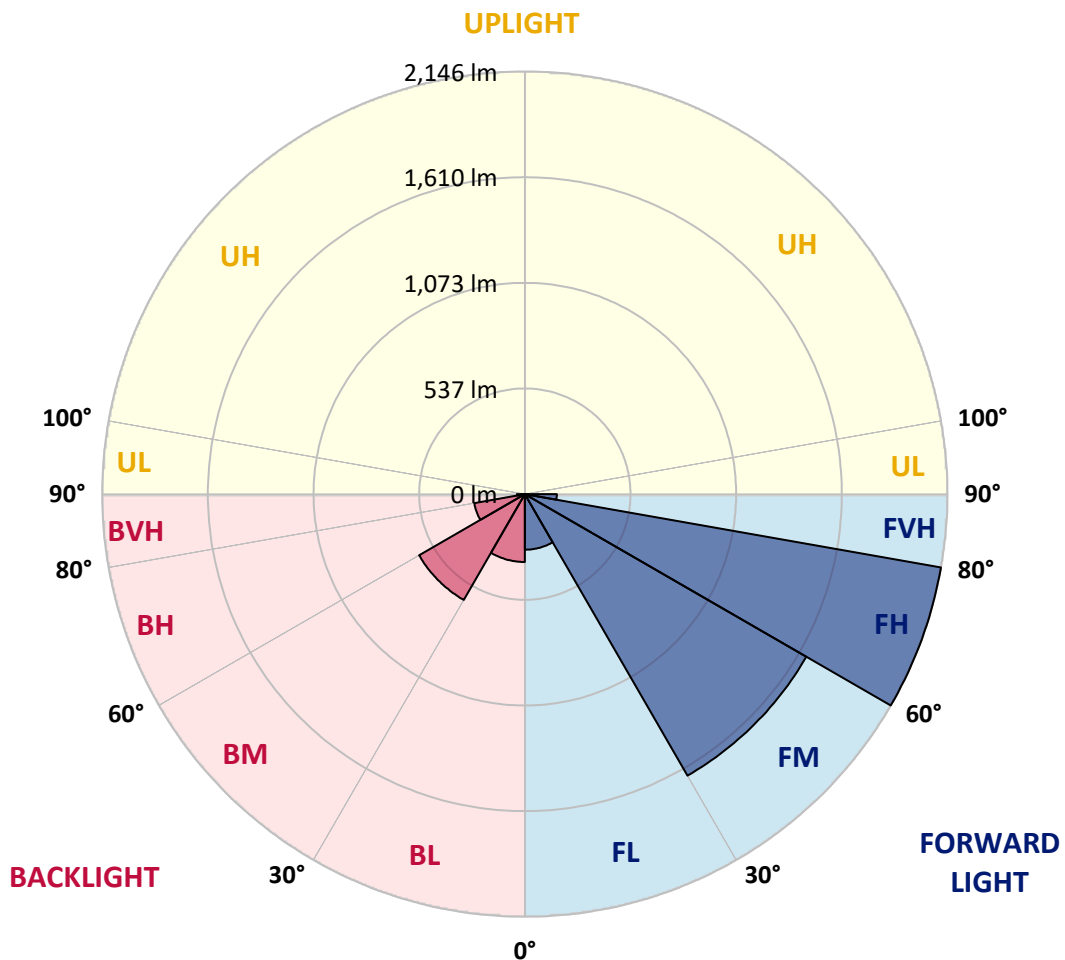
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	282.3	5.1			
FM (30°-60°)	1651.0	30.0			
FH (60°-80°)	2146.4	39.0			G2/5000
FVH (80°-90°)	162.5	3.0			G2/225
BL (0°-30°)	344.6	6.3	B1/500		
BM (30°-60°)	620.3	11.3	B1/1000		
BH (60°-80°)	261.0	4.7	B1/500		G1/500
BVH (80°-90°)	40.0	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	754.6	754.6	754.6	754.6	754.6	754.6	754.6	754.6	754.6	754.6	754.6
2.5°	683.6	677.6	683.6	687.7	687.7	687.7	693.8	712.0	724.2	732.3	746.5
5°	612.6	614.7	618.7	628.9	635.0	639.0	649.2	671.5	689.7	716.1	746.5
7.5°	549.8	553.8	559.9	570.0	584.2	582.2	604.5	635.0	669.4	703.9	748.6
10°	517.3	525.4	527.4	529.5	543.7	543.7	574.1	608.6	651.2	695.8	748.6
12.5°	523.4	523.4	517.3	515.3	523.4	521.4	547.7	588.3	635.0	697.8	756.7
15°	541.6	541.6	529.5	517.3	529.5	525.4	547.7	580.2	635.0	699.9	772.9
17.5°	566.0	568.0	553.8	533.5	537.6	539.6	555.8	586.3	635.0	703.9	795.2
20°	614.7	604.5	582.2	549.8	564.0	557.9	582.2	608.6	647.1	720.2	827.7
22.5°	657.3	657.3	614.7	586.3	588.3	588.3	610.6	632.9	665.4	742.5	852.0
25°	726.2	722.2	669.4	626.8	630.9	632.9	645.1	671.5	695.8	754.6	882.5
27.5°	813.5	803.3	750.6	701.9	685.7	691.8	697.8	718.1	724.2	774.9	919.0
30°	906.8	892.6	848.0	770.9	762.8	764.8	754.6	766.8	758.7	807.4	955.5
32.5°	965.6	965.6	923.0	866.2	843.9	843.9	809.4	817.5	817.5	837.8	1020.4
35°	1016.3	1012.3	983.9	941.3	927.1	919.0	884.5	896.7	876.4	896.7	1111.7
37.5°	1093.4	1081.3	1069.1	1040.7	1012.3	1006.2	987.9	996.1	967.7	957.5	1215.1
40°	1182.7	1176.6	1164.4	1152.3	1123.9	1121.8	1101.5	1109.7	1079.2	1040.7	1318.6
42.5°	1314.5	1296.3	1257.7	1247.6	1253.7	1261.8	1253.7	1239.5	1184.7	1136.0	1430.2
45°	1446.4	1418.0	1345.0	1328.7	1375.4	1369.3	1403.8	1397.7	1308.5	1231.4	1547.8
47.5°	1531.6	1507.3	1448.4	1438.3	1458.6	1466.7	1570.2	1551.9	1409.9	1318.6	1661.4
50°	1592.5	1594.5	1517.4	1543.8	1570.2	1570.2	1700.0	1698.0	1533.6	1426.1	1809.5
52.5°	1681.7	1653.3	1620.9	1645.2	1681.7	1702.0	1862.3	1817.6	1610.7	1517.4	1975.9
55°	1728.4	1716.2	1687.8	1730.4	1807.5	1817.6	1988.0	1953.6	1698.0	1624.9	2146.3
57.5°	1746.6	1756.8	1803.4	1821.7	1929.2	1955.6	2101.7	2053.0	1779.1	1758.8	2278.1
60°	1827.8	1813.6	1876.5	1949.5	2053.0	2067.2	2243.7	2138.2	1858.2	1846.0	2320.7
62.5°	1992.1	1955.6	1990.1	2077.3	2221.3	2239.6	2393.8	2251.8	1892.7	1904.9	2318.7
65°	2231.5	2205.1	2154.4	2223.4	2426.2	2452.6	2570.3	2349.1	1882.6	1884.6	2154.4
67.5°	2513.5	2470.9	2418.1	2460.7	2708.2	2769.1	2785.3	2391.7	1811.6	1771.0	1752.7
70°	2761.0	2732.6	2698.1	2771.1	3116.0	3138.3	3053.1	2365.4	1614.8	1422.1	1168.5
72.5°	2992.2	2978.0	2998.3	3272.2	3667.7	3681.9	3304.6	2199.0	1276.0	862.2	543.7
75°	3010.5	2996.3	3136.2	3686.0	4359.5	4385.9	3460.8	1724.3	673.5	351.0	229.2
77.5°	2038.8	2081.4	2343.1	3227.5	4004.5	4010.6	2829.9	801.3	277.9	206.9	160.3
80°	501.1	555.8	882.5	1669.6	2700.1	2767.0	1549.9	269.8	182.6	158.2	119.7
82.5°	182.6	198.8	359.1	754.6	1517.4	1543.8	541.6	146.1	131.9	121.7	87.2
85°	87.2	89.3	170.4	371.2	766.8	758.7	194.7	87.2	95.3	83.2	52.7
87.5°	36.5	36.5	75.1	172.4	338.8	328.6	62.9	40.6	54.8	48.7	26.4
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°	754.6	754.6	754.6	754.6	754.6	754.6	754.6	754.6	754.6	754.6	754.6
2.5°	756.7	760.7	777.0	789.1	801.3	811.4	827.7	827.7	837.8	837.8	837.8
5°	754.6	777.0	803.3	831.7	850.0	868.3	884.5	886.5	892.6	900.7	902.7
7.5°	762.8	785.1	827.7	868.3	890.6	898.7	919.0	912.9	912.9	912.9	919.0
10°	779.0	803.3	862.2	898.7	914.9	916.9	910.9	906.8	894.6	890.6	884.5
12.5°	791.2	833.8	892.6	921.0	914.9	908.8	894.6	874.3	860.1	856.1	856.1
15°	821.6	864.2	919.0	929.1	919.0	886.5	868.3	845.9	833.8	815.5	823.6
17.5°	848.0	896.7	945.3	933.2	912.9	862.2	835.8	803.3	787.1	766.8	766.8
20°	882.5	927.1	969.7	937.2	892.6	837.8	795.2	754.6	732.3	712.0	716.1
22.5°	921.0	961.6	983.9	921.0	862.2	799.3	740.4	701.9	673.5	661.3	665.4
25°	951.4	996.1	992.0	894.6	825.6	750.6	685.7	649.2	643.1	630.9	630.9
27.5°	990.0	1036.6	985.9	862.2	764.8	673.5	632.9	618.7	618.7	612.6	616.7
30°	1040.7	1073.1	971.7	815.5	687.7	604.5	584.2	592.4	606.6	600.5	602.5
32.5°	1123.9	1119.8	959.5	762.8	606.6	537.6	551.8	568.0	580.2	586.3	590.3
35°	1205.0	1178.6	945.3	691.8	531.5	505.1	517.3	535.6	557.9	564.0	566.0
37.5°	1286.1	1239.5	921.0	604.5	484.8	476.7	488.9	499.0	517.3	521.4	525.4
40°	1371.3	1280.1	878.4	519.3	446.3	446.3	454.4	456.4	466.6	472.7	476.7
42.5°	1446.4	1318.6	801.3	440.2	405.7	419.9	422.0	417.9	409.8	413.8	415.9
45°	1537.7	1361.2	712.0	383.4	375.3	393.6	397.6	381.4	367.2	359.1	355.0
47.5°	1627.0	1405.8	635.0	336.8	346.9	375.3	375.3	357.0	332.7	312.4	304.3
50°	1708.1	1450.5	572.1	308.4	318.5	361.1	365.2	330.7	304.3	279.9	275.9
52.5°	1844.0	1525.5	507.2	286.0	302.3	351.0	348.9	318.5	284.0	257.6	255.6
55°	1963.7	1600.6	422.0	263.7	286.0	336.8	342.8	306.3	259.7	235.3	231.3
57.5°	2050.9	1618.8	336.8	241.4	269.8	320.5	328.6	282.0	243.4	223.1	221.1
60°	2067.2	1547.8	273.9	223.1	247.5	298.2	304.3	267.8	231.3	215.0	211.0
62.5°	1992.1	1411.9	233.3	206.9	229.2	275.9	288.1	251.5	219.1	204.9	202.9
65°	1821.7	1213.1	204.9	192.7	217.1	259.7	273.9	239.4	208.9	196.8	194.7
67.5°	1442.4	931.1	182.6	182.6	200.8	243.4	263.7	231.3	198.8	190.7	188.7
70°	943.3	559.9	166.3	168.4	188.7	229.2	251.5	221.1	186.6	184.6	180.5
72.5°	405.7	257.6	148.1	154.2	170.4	204.9	233.3	206.9	172.4	166.3	160.3
75°	186.6	156.2	133.9	137.9	152.1	180.5	211.0	190.7	160.3	150.1	144.0
77.5°	131.9	113.6	111.6	119.7	129.8	156.2	186.6	178.5	148.1	140.0	135.9
80°	97.4	87.2	93.3	101.4	107.5	144.0	176.5	164.3	135.9	123.7	117.7
82.5°	69.0	64.9	73.0	81.1	87.2	125.8	162.3	144.0	113.6	103.5	93.3
85°	40.6	42.6	50.7	54.8	60.9	93.3	135.9	115.6	87.2	66.9	64.9
87.5°	18.3	18.3	24.3	26.4	30.4	54.8	91.3	73.0	54.8	42.6	40.6
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)