

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: P671140

Luminaire Tested: **CCP-SA-1F-827-U-T4W**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P671140
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1F-827-U-T4W
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/ T4W distribution lens
Light Source: (16) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

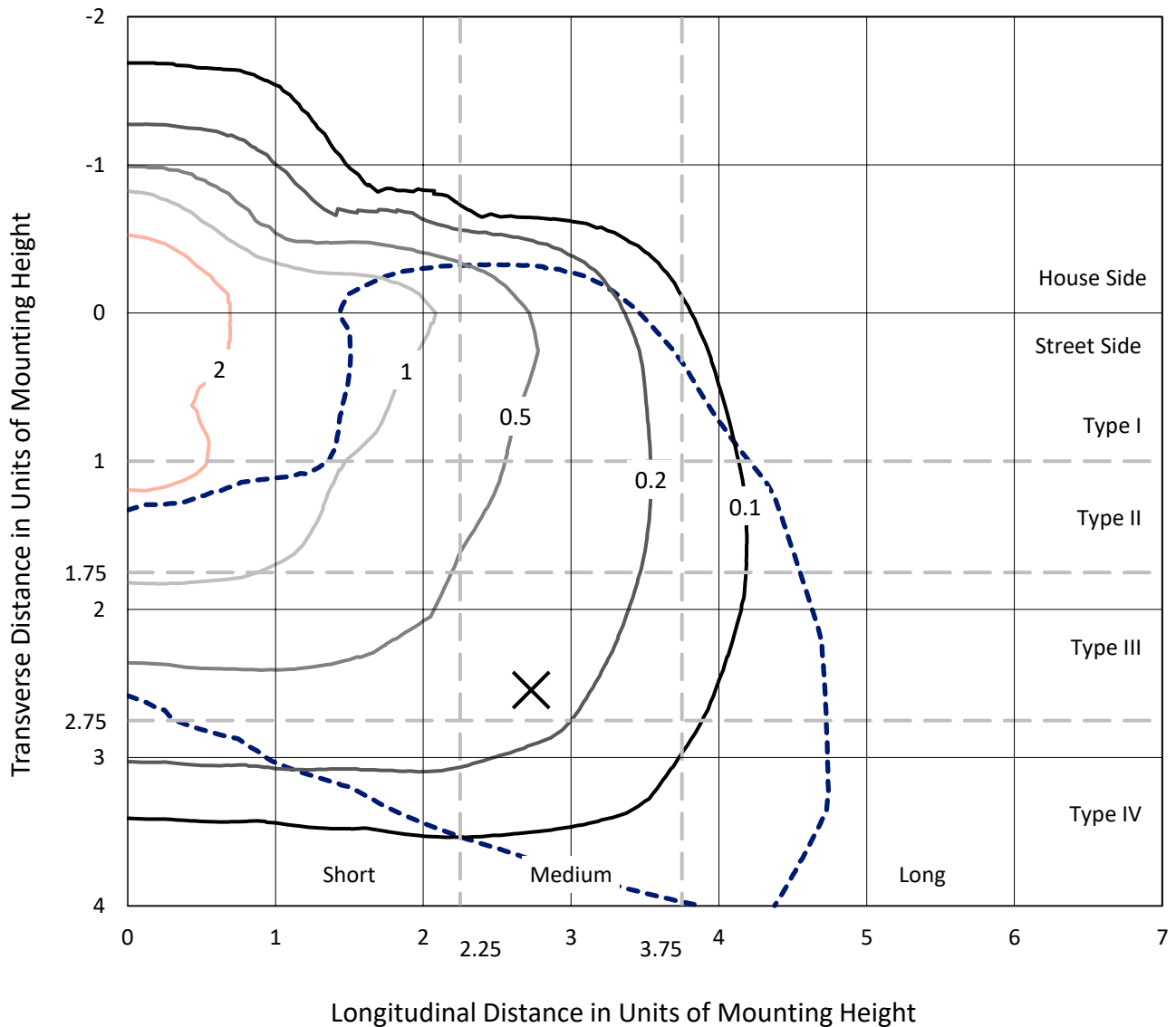
Lumens per Lamp: N/A
Luminaire Lumens: 5560.2 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

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

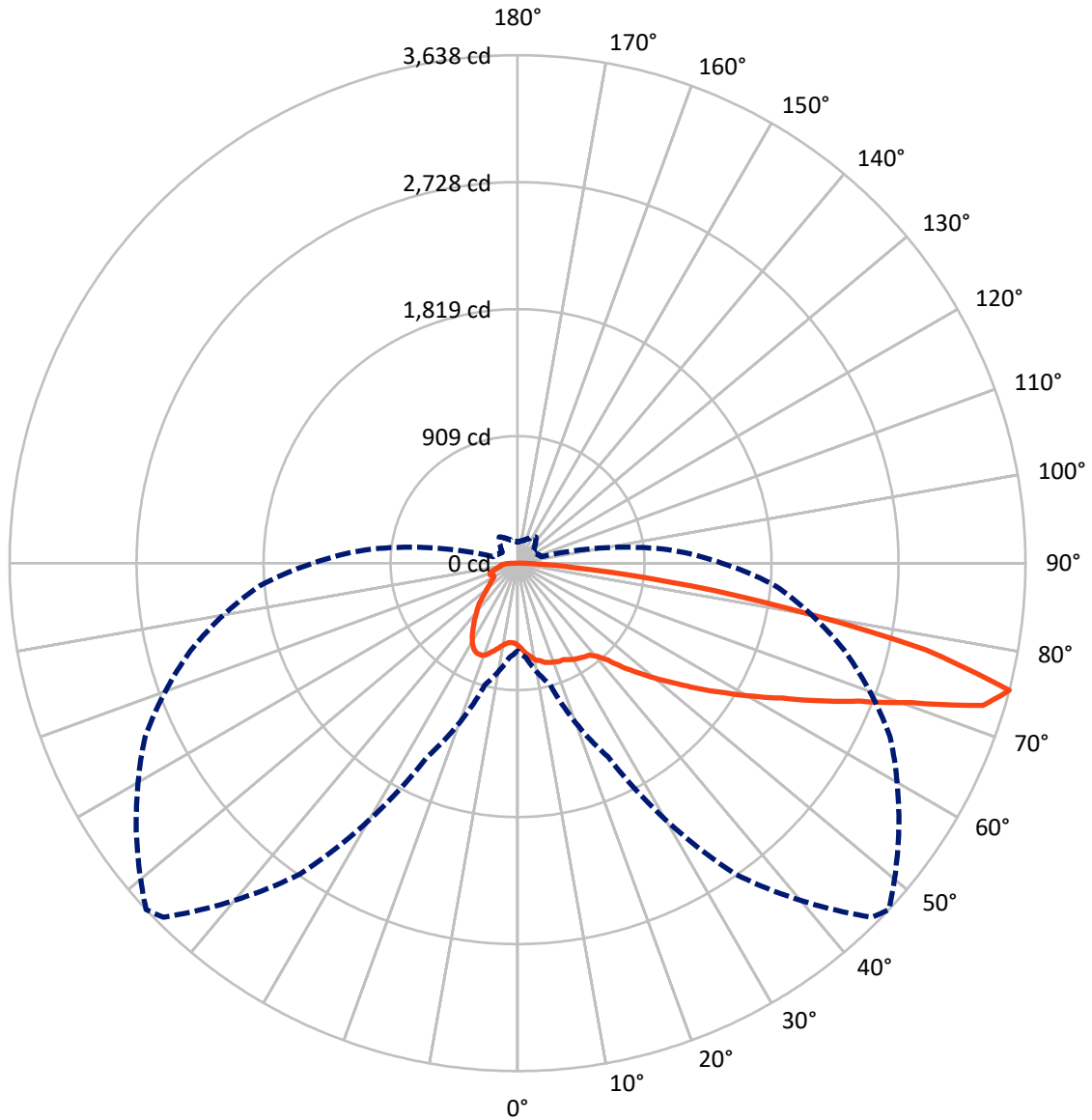
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1329.7	0.0	1329.7
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	4230.5	0.0	4230.5
	% Fixture	76.1	0.0	76.1
Total	Lumens	5560.2	0.0	5560.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.7	1.1
10°-20°	198.2	3.6
20°-30°	339.5	6.1
30°-40°	475.0	8.5
40°-50°	662.3	11.9
50°-60°	989.9	17.8
60°-70°	1427.2	25.7
70°-80°	1214.9	21.8
80°-90°	193.5	3.5
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°	5560.2	100.0
0°-180°	5560.2	100.0



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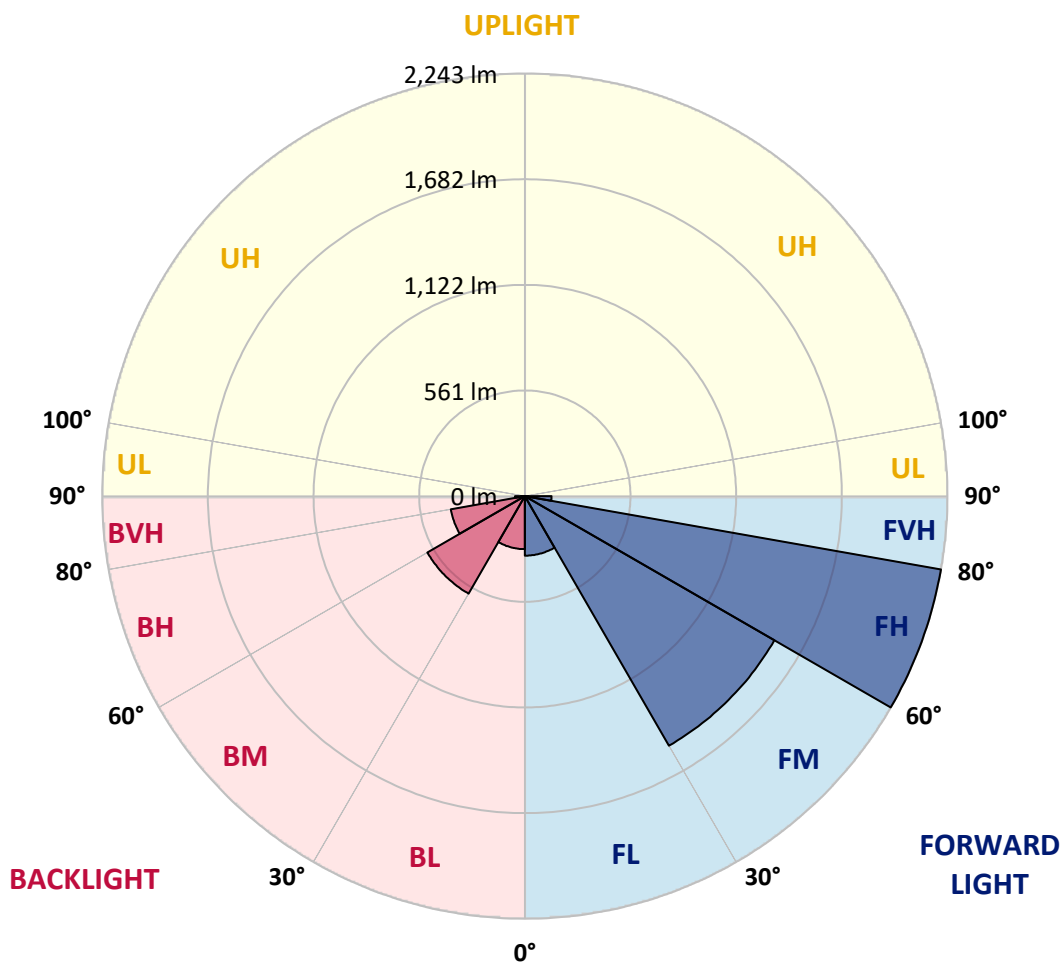
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	315.9	5.7			
FM (30°-60°)	1529.6	27.5			
FH (60°-80°)	2243.2	40.3			G2/5000
FVH (80°-90°)	141.8	2.6			G2/225
BL (0°-30°)	281.4	5.1	B1/500		
BM (30°-60°)	597.6	10.7	B1/1000		
BH (60°-80°)	398.9	7.2	B1/500		G1/500
BVH (80°-90°)	51.7	0.9			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	590.4	590.4	590.4	590.4	590.4	590.4	590.4	590.4	590.4	590.4	590.4
2.5°	633.0	635.0	635.0	630.9	626.9	618.8	618.8	610.7	606.6	596.5	592.4
5°	691.8	685.7	679.6	677.6	667.5	653.3	651.2	643.1	620.8	610.7	596.5
7.5°	734.4	732.4	730.4	722.2	704.0	681.7	675.6	663.4	641.1	620.8	604.6
10°	768.9	777.0	768.9	750.6	732.4	708.0	706.0	683.7	663.4	639.1	618.8
12.5°	807.5	809.5	795.3	773.0	744.6	724.3	716.2	708.0	685.7	665.4	635.0
15°	833.8	829.8	819.6	789.2	756.7	736.4	738.5	728.3	704.0	689.8	657.3
17.5°	833.8	833.8	817.6	795.3	766.9	748.6	748.6	742.5	726.3	706.0	683.7
20°	817.6	817.6	807.5	795.3	762.8	758.8	754.7	750.6	750.6	732.4	699.9
22.5°	797.3	793.3	797.3	777.0	754.7	758.8	764.8	762.8	756.7	740.5	718.2
25°	777.0	779.0	783.1	768.9	748.6	766.9	764.8	775.0	770.9	758.8	740.5
27.5°	775.0	779.0	781.1	766.9	758.8	775.0	783.1	793.3	795.3	783.1	760.8
30°	805.4	803.4	801.4	783.1	777.0	791.2	799.3	813.5	825.7	799.3	781.1
32.5°	884.5	872.4	860.2	811.5	793.3	803.4	811.5	831.8	833.8	819.6	793.3
35°	1010.3	1002.2	961.6	876.4	825.7	815.6	823.7	837.9	841.9	831.8	811.5
37.5°	1154.4	1150.3	1093.5	990.0	892.7	844.0	835.9	856.1	872.4	850.1	821.7
40°	1296.4	1280.2	1239.6	1138.1	977.9	886.6	876.4	886.6	892.7	876.4	858.2
42.5°	1424.2	1405.9	1395.8	1294.4	1089.5	957.6	949.5	925.1	943.4	923.1	898.7
45°	1531.7	1527.7	1523.6	1436.4	1217.3	1073.2	1067.1	1004.2	1024.5	1008.3	973.8
47.5°	1608.8	1627.1	1621.0	1572.3	1363.3	1197.0	1178.7	1097.6	1128.0	1111.8	1077.3
50°	1700.1	1710.3	1704.2	1671.7	1499.3	1339.0	1304.5	1221.3	1255.8	1253.8	1235.5
52.5°	1781.3	1811.7	1777.2	1775.2	1694.0	1493.2	1434.3	1355.2	1412.0	1434.3	1432.3
55°	1876.6	1901.0	1890.8	1886.8	1868.5	1643.3	1590.6	1495.2	1590.6	1623.0	1651.4
57.5°	1957.8	1955.7	1994.3	2040.9	2063.3	1815.8	1752.9	1641.3	1785.3	1821.8	1901.0
60°	1994.3	2028.8	2093.7	2211.4	2274.3	2000.4	1935.4	1846.2	1982.1	2010.5	2156.6
62.5°	2018.6	2049.1	2174.8	2373.7	2410.2	2189.0	2128.2	2038.9	2197.2	2217.4	2434.5
65°	1951.7	1980.1	2229.6	2434.5	2564.4	2391.9	2377.7	2284.4	2412.2	2424.4	2726.7
67.5°	1874.6	1905.0	2183.0	2511.6	2769.3	2661.8	2639.4	2527.9	2625.2	2611.0	2949.8
70°	1738.7	1779.2	2063.3	2578.6	2996.5	3039.1	2994.5	2836.2	2846.4	2712.5	2960.0
72.5°	1324.8	1351.2	1614.9	2312.8	3102.0	3562.5	3485.4	3168.9	3053.3	2732.8	2613.1
75°	628.9	677.6	900.8	1529.7	2718.6	3586.9	3637.6	3333.3	2943.7	2424.4	1852.3
77.5°	182.6	182.6	273.9	649.2	1704.2	2891.0	2986.4	2830.1	2428.4	1795.5	973.8
80°	99.4	105.5	144.0	229.3	748.6	1823.9	1961.8	1876.6	1430.3	710.1	251.6
82.5°	56.8	58.8	95.4	138.0	340.8	992.1	1073.2	973.8	543.7	215.0	117.7
85°	32.5	34.5	54.8	91.3	202.9	365.2	397.6	344.9	219.1	144.0	58.8
87.5°	16.2	16.2	26.4	42.6	103.5	103.5	101.4	123.8	131.9	87.2	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°	590.4	590.4	590.4	590.4	590.4	590.4	590.4	590.4	590.4	590.4	590.4
2.5°	590.4	588.3	588.3	580.2	578.2	572.1	572.1	568.1	566.0	572.1	572.1
5°	592.4	582.3	580.2	572.1	574.1	570.1	578.2	574.1	572.1	572.1	570.1
7.5°	596.5	586.3	578.2	572.1	570.1	576.2	586.3	586.3	598.5	592.4	592.4
10°	606.6	600.5	590.4	586.3	586.3	592.4	604.6	612.7	622.8	622.8	616.7
12.5°	630.9	620.8	608.6	602.5	610.7	616.7	628.9	637.0	649.2	653.3	649.2
15°	649.2	639.1	635.0	630.9	637.0	645.1	655.3	663.4	677.6	681.7	679.6
17.5°	673.6	661.4	659.4	661.4	665.4	671.5	677.6	683.7	693.8	693.8	693.8
20°	685.7	681.7	679.6	685.7	693.8	702.0	697.9	693.8	691.8	695.9	693.8
22.5°	708.0	704.0	706.0	712.1	712.1	708.0	702.0	687.8	683.7	687.8	683.7
25°	728.3	724.3	724.3	720.2	718.2	704.0	691.8	679.6	665.4	671.5	669.5
27.5°	748.6	746.6	746.6	730.4	710.1	685.7	669.5	655.3	647.2	657.3	651.2
30°	773.0	775.0	764.8	726.3	677.6	651.2	633.0	630.9	628.9	635.0	633.0
32.5°	795.3	797.3	781.1	720.2	653.3	602.5	584.3	586.3	596.5	606.6	616.7
35°	807.5	817.6	797.3	699.9	604.6	547.8	527.5	545.7	564.0	578.2	588.3
37.5°	829.8	856.1	821.7	677.6	562.0	499.1	484.9	491.0	513.3	535.6	545.7
40°	862.2	892.7	827.7	635.0	505.2	450.4	442.3	444.3	452.4	466.6	476.8
42.5°	919.0	951.5	833.8	580.2	448.4	420.0	397.6	391.6	385.5	385.5	383.4
45°	1002.2	1032.6	825.7	511.3	391.6	371.3	355.0	340.8	324.6	298.2	302.3
47.5°	1123.9	1148.3	831.8	450.4	338.8	322.6	310.4	294.2	269.8	241.4	239.4
50°	1308.6	1272.0	823.7	387.5	300.3	286.1	275.9	253.6	225.2	204.9	202.9
52.5°	1523.6	1450.6	815.6	334.7	267.8	255.6	247.5	223.2	196.8	186.6	184.6
55°	1783.3	1677.8	827.7	288.1	243.5	233.3	225.2	202.9	182.6	174.5	172.4
57.5°	2089.6	1923.3	894.7	251.6	217.1	213.0	211.0	192.7	174.5	168.4	166.4
60°	2377.7	2158.6	939.3	225.2	192.7	196.8	200.8	192.7	172.4	168.4	168.4
62.5°	2619.1	2353.4	868.3	202.9	180.6	192.7	211.0	204.9	196.8	200.8	196.8
65°	2832.2	2420.3	649.2	190.7	174.5	202.9	233.3	231.3	213.0	217.1	215.0
67.5°	2868.7	2339.2	424.0	180.6	170.4	223.2	261.7	237.4	200.8	200.8	194.8
70°	2716.5	2122.1	284.0	170.4	168.4	223.2	267.8	223.2	188.7	188.7	180.6
72.5°	2229.6	1696.1	219.1	160.3	154.2	198.8	253.6	211.0	176.5	172.4	158.2
75°	1464.8	1093.5	178.5	152.2	133.9	174.5	229.3	194.8	168.4	156.2	150.1
77.5°	718.2	491.0	150.1	133.9	115.6	152.2	209.0	184.6	158.2	146.1	142.0
80°	196.8	176.5	125.8	117.7	97.4	131.9	196.8	176.5	148.1	135.9	129.8
82.5°	111.6	109.6	101.4	95.4	81.2	131.9	198.8	176.5	140.0	138.0	117.7
85°	60.9	64.9	73.0	71.0	62.9	117.7	188.7	154.2	113.6	95.4	95.4
87.5°	24.3	30.4	36.5	40.6	42.6	87.2	142.0	117.7	87.2	73.0	73.0
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)