

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: P671031

Luminaire Tested: **CCP-SA-2B-840-U-T4FT**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P671031  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2B-840-U-T4FT  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ T4FT distribution lens  
Light Source: (32) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

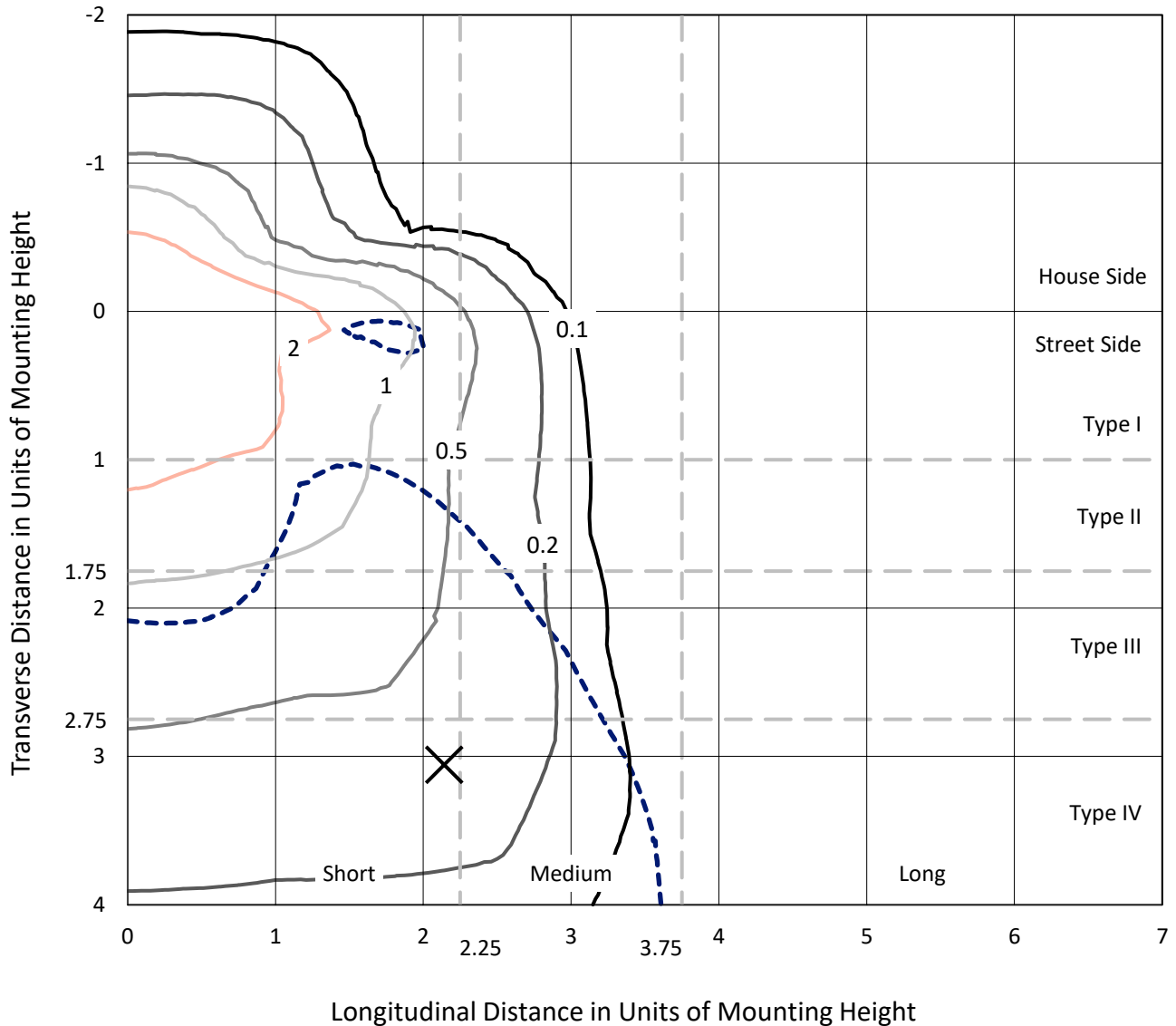
Lumens per Lamp: N/A  
Luminaire Lumens: 5884.6 lumens  
Efficiency: N/A  
Efficacy: 127.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 46  
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

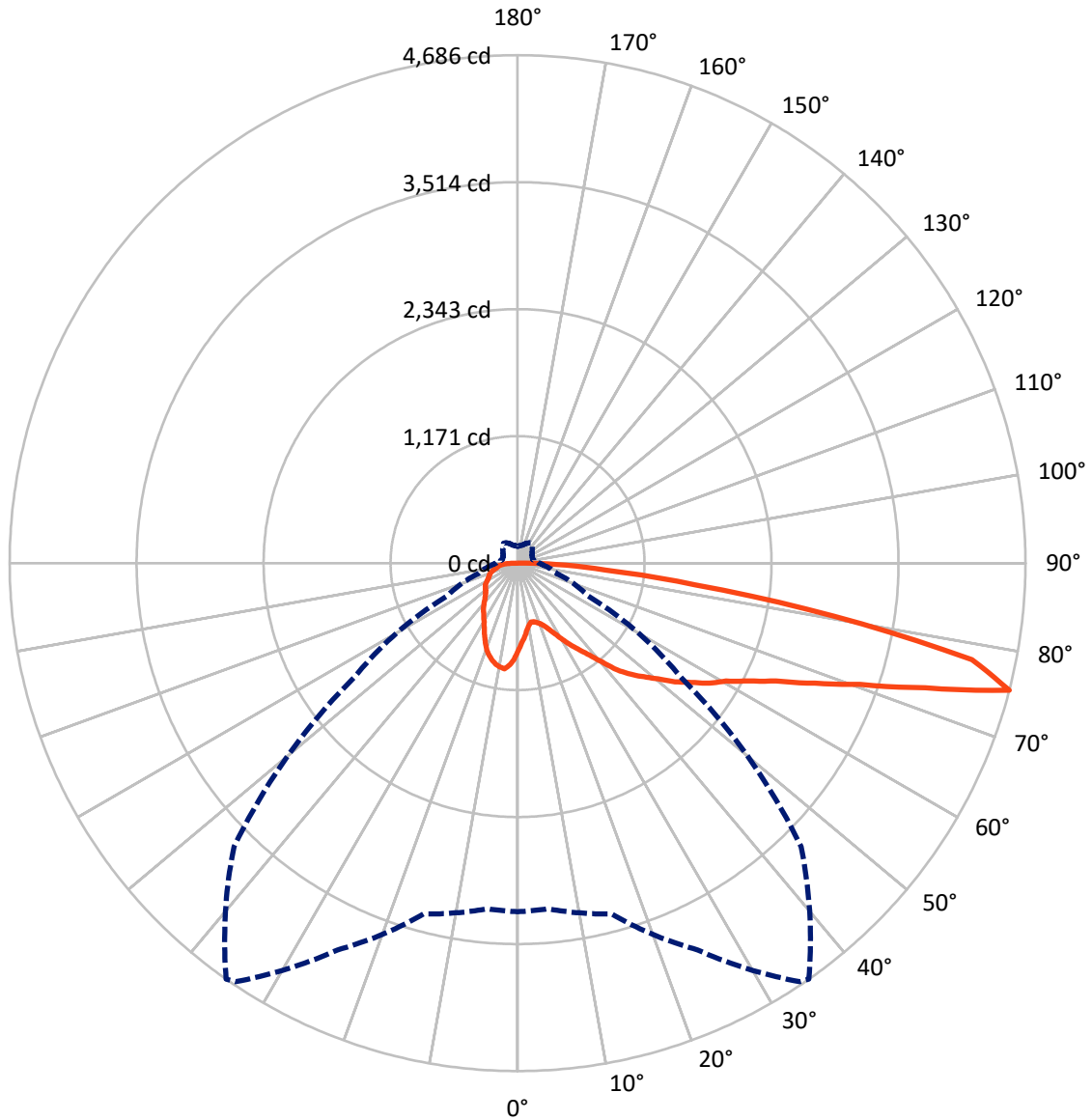
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.3 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
<b>House Side</b>	Lumens	1352.4	0.0	1352.4
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	4532.2	0.0	4532.2
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	5884.6	0.0	5884.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.8	1.3
10°-20°	223.0	3.8
20°-30°	370.0	6.3
30°-40°	548.4	9.3
40°-50°	790.8	13.4
50°-60°	1087.4	18.5
60°-70°	1343.2	22.8
70°-80°	1228.8	20.9
80°-90°	216.3	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°	5884.6	100.0
0°-180°	5884.6	100.0



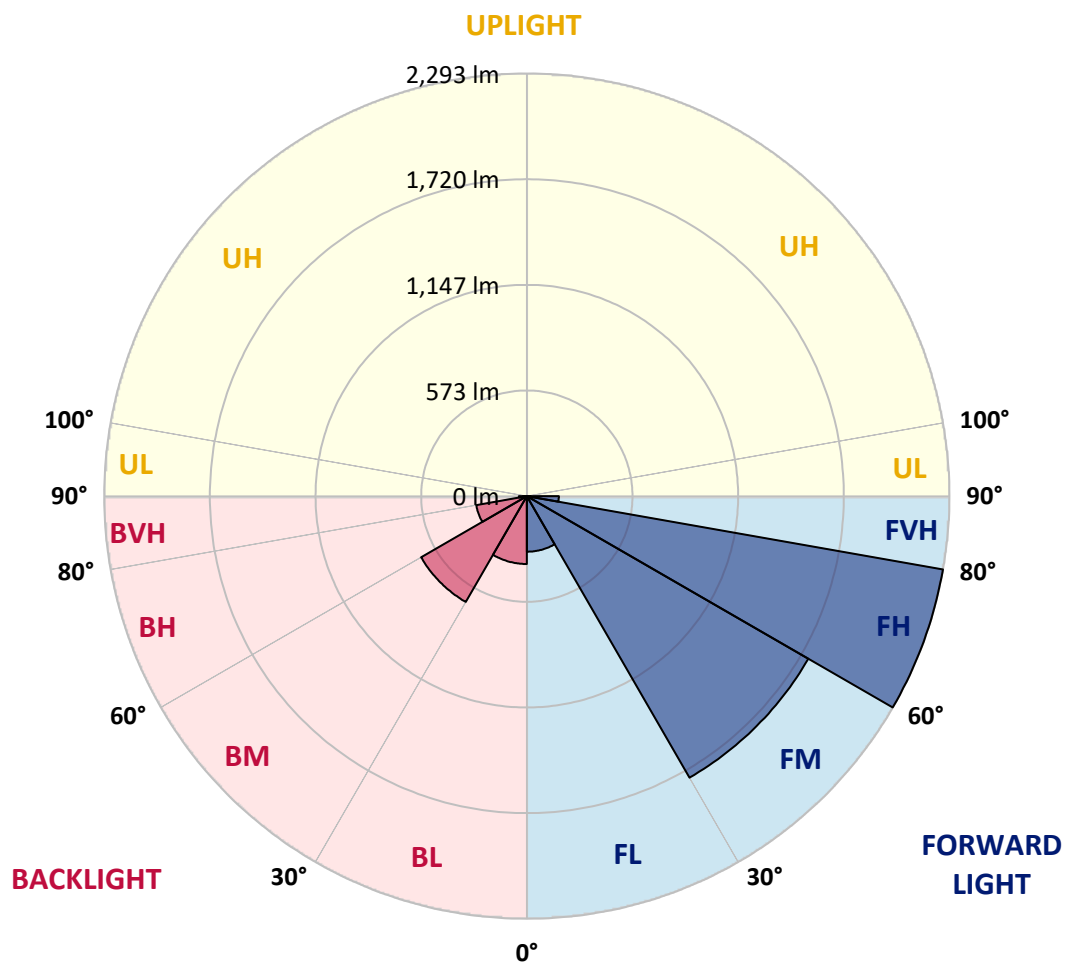
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	301.6	5.1			
FM (30°-60°)	1763.8	30.0			
FH (60°-80°)	2293.1	39.0			G2/5000
FVH (80°-90°)	173.6	3.0			G2/225
BL (0°-30°)	368.1	6.3	B1/500		
BM (30°-60°)	662.7	11.3	B1/1000		
BH (60°-80°)	278.9	4.7	B1/500		G1/500
BVH (80°-90°)	42.7	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°	806.2	806.2	806.2	806.2	806.2	806.2	806.2	806.2	806.2	806.2	806.2
2.5°	730.4	723.9	730.4	734.7	734.7	734.7	741.2	760.7	773.7	782.4	797.6
5°	654.5	656.7	661.0	671.9	678.4	682.7	693.5	717.4	736.9	765.0	797.6
7.5°	587.3	591.7	598.2	609.0	624.2	622.0	645.8	678.4	715.2	752.0	799.7
10°	552.7	561.3	563.5	565.7	580.8	580.8	613.3	650.2	695.7	743.4	799.7
12.5°	559.2	559.2	552.7	550.5	559.2	557.0	585.2	628.5	678.4	745.5	808.4
15°	578.7	578.7	565.7	552.7	565.7	561.3	585.2	619.8	678.4	747.7	825.7
17.5°	604.7	606.8	591.7	570.0	574.3	576.5	593.8	626.3	678.4	752.0	849.6
20°	656.7	645.8	622.0	587.3	602.5	596.0	622.0	650.2	691.4	769.4	884.2
22.5°	702.2	702.2	656.7	626.3	628.5	628.5	652.3	676.2	710.9	793.2	910.3
25°	775.9	771.5	715.2	669.7	674.0	676.2	689.2	717.4	743.4	806.2	942.8
27.5°	869.1	858.2	801.9	749.9	732.5	739.0	745.5	767.2	773.7	827.9	981.8
30°	968.8	953.6	905.9	823.6	814.9	817.1	806.2	819.2	810.6	862.6	1020.8
32.5°	1031.6	1031.6	986.1	925.4	901.6	901.6	864.7	873.4	873.4	895.1	1090.1
35°	1085.8	1081.5	1051.1	1005.6	990.4	981.8	944.9	957.9	936.3	957.9	1187.7
37.5°	1168.2	1155.2	1142.2	1111.8	1081.5	1075.0	1055.5	1064.1	1033.8	1023.0	1298.2
40°	1263.5	1257.0	1244.0	1231.0	1200.7	1198.5	1176.8	1185.5	1153.0	1111.8	1408.7
42.5°	1404.4	1384.9	1343.7	1332.9	1339.4	1348.0	1339.4	1324.2	1265.7	1213.7	1527.9
45°	1545.3	1514.9	1436.9	1419.6	1469.4	1462.9	1499.7	1493.2	1397.9	1315.5	1653.6
47.5°	1636.3	1610.3	1547.4	1536.6	1558.3	1566.9	1677.5	1658.0	1506.3	1408.7	1775.0
50°	1701.3	1703.5	1621.1	1649.3	1677.5	1677.5	1816.2	1814.0	1638.5	1523.6	1933.2
52.5°	1796.7	1766.3	1731.6	1757.7	1796.7	1818.3	1989.6	1941.9	1720.8	1621.1	2110.9
55°	1846.5	1833.5	1803.2	1848.7	1931.0	1941.9	2123.9	2087.1	1814.0	1736.0	2293.0
57.5°	1866.0	1876.9	1926.7	1946.2	2061.1	2089.2	2245.3	2193.3	1900.7	1879.0	2433.8
60°	1952.7	1937.5	2004.7	2082.7	2193.3	2208.4	2397.0	2284.3	1985.2	1972.2	2479.4
62.5°	2128.3	2089.2	2126.1	2219.3	2373.2	2392.7	2557.4	2405.7	2022.1	2035.1	2477.2
65°	2384.0	2355.8	2301.6	2375.3	2592.1	2620.2	2745.9	2509.7	2011.2	2013.4	2301.6
67.5°	2685.2	2639.7	2583.4	2628.9	2893.3	2958.3	2975.7	2555.2	1935.4	1892.0	1872.5
70°	2949.7	2919.3	2882.5	2960.5	3328.9	3352.8	3261.7	2527.0	1725.1	1519.3	1248.3
72.5°	3196.7	3181.6	3203.2	3495.8	3918.4	3933.6	3530.5	2349.3	1363.2	921.1	580.8
75°	3216.2	3201.1	3350.6	3937.9	4657.5	4685.6	3697.4	1842.2	719.5	374.9	244.9
77.5°	2178.1	2223.6	2503.2	3448.1	4278.2	4284.7	3023.3	856.1	296.9	221.1	171.2
80°	535.3	593.8	942.8	1783.7	2884.6	2956.2	1655.8	288.2	195.1	169.0	127.9
82.5°	195.1	212.4	383.6	806.2	1621.1	1649.3	578.7	156.0	140.9	130.0	93.2
85°	93.2	95.4	182.1	396.6	819.2	810.6	208.1	93.2	101.9	88.9	56.3
87.5°	39.0	39.0	80.2	184.2	361.9	351.1	67.2	43.3	58.5	52.0	28.2
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°	806.2	806.2	806.2	806.2	806.2	806.2	806.2	806.2	806.2	806.2	806.2
2.5°	808.4	812.7	830.1	843.1	856.1	866.9	884.2	884.2	895.1	895.1	895.1
5°	806.2	830.1	858.2	888.6	908.1	927.6	944.9	947.1	953.6	962.3	964.4
7.5°	814.9	838.7	884.2	927.6	951.4	960.1	981.8	975.3	975.3	975.3	981.8
10°	832.2	858.2	921.1	960.1	977.4	979.6	973.1	968.8	955.8	951.4	944.9
12.5°	845.2	890.7	953.6	983.9	977.4	970.9	955.8	934.1	918.9	914.6	914.6
15°	877.7	923.3	981.8	992.6	981.8	947.1	927.6	903.8	890.7	871.2	879.9
17.5°	905.9	957.9	1009.9	996.9	975.3	921.1	892.9	858.2	840.9	819.2	819.2
20°	942.8	990.4	1036.0	1001.3	953.6	895.1	849.6	806.2	782.4	760.7	765.0
22.5°	983.9	1027.3	1051.1	983.9	921.1	853.9	791.1	749.9	719.5	706.5	710.9
25°	1016.4	1064.1	1059.8	955.8	882.1	801.9	732.5	693.5	687.0	674.0	674.0
27.5°	1057.6	1107.5	1053.3	921.1	817.1	719.5	676.2	661.0	661.0	654.5	658.8
30°	1111.8	1146.5	1038.1	871.2	734.7	645.8	624.2	632.8	648.0	641.5	643.7
32.5°	1200.7	1196.3	1025.1	814.9	648.0	574.3	589.5	606.8	619.8	626.3	630.7
35°	1287.4	1259.2	1009.9	739.0	567.8	539.6	552.7	572.2	596.0	602.5	604.7
37.5°	1374.0	1324.2	983.9	645.8	518.0	509.3	522.3	533.1	552.7	557.0	561.3
40°	1465.1	1367.5	938.4	554.8	476.8	476.8	485.5	487.6	498.5	505.0	509.3
42.5°	1545.3	1408.7	856.1	470.3	433.5	448.6	450.8	446.5	437.8	442.1	444.3
45°	1642.8	1454.2	760.7	409.6	400.9	420.5	424.8	407.4	392.3	383.6	379.3
47.5°	1738.1	1501.9	678.4	359.8	370.6	400.9	400.9	381.4	355.4	333.8	325.1
50°	1824.8	1549.6	611.2	329.4	340.3	385.8	390.1	353.3	325.1	299.1	294.7
52.5°	1970.0	1629.8	541.8	305.6	322.9	374.9	372.8	340.3	303.4	275.2	273.1
55°	2097.9	1710.0	450.8	281.7	305.6	359.8	366.3	327.3	277.4	251.4	247.1
57.5°	2191.1	1729.5	359.8	257.9	288.2	342.4	351.1	301.3	260.1	238.4	236.2
60°	2208.4	1653.6	292.6	238.4	264.4	318.6	325.1	286.1	247.1	229.7	225.4
62.5°	2128.3	1508.4	249.2	221.1	244.9	294.7	307.8	268.7	234.1	218.9	216.7
65°	1946.2	1296.0	218.9	205.9	231.9	277.4	292.6	255.7	223.2	210.2	208.1
67.5°	1540.9	994.8	195.1	195.1	214.6	260.1	281.7	247.1	212.4	203.7	201.6
70°	1007.8	598.2	177.7	179.9	201.6	244.9	268.7	236.2	199.4	197.2	192.9
72.5°	433.5	275.2	158.2	164.7	182.1	218.9	249.2	221.1	184.2	177.7	171.2
75°	199.4	166.9	143.0	147.4	162.5	192.9	225.4	203.7	171.2	160.4	153.9
77.5°	140.9	121.4	119.2	127.9	138.7	166.9	199.4	190.7	158.2	149.5	145.2
80°	104.0	93.2	99.7	108.4	114.9	153.9	188.6	175.5	145.2	132.2	125.7
82.5°	73.7	69.4	78.0	86.7	93.2	134.4	173.4	153.9	121.4	110.5	99.7
85°	43.3	45.5	54.2	58.5	65.0	99.7	145.2	123.5	93.2	71.5	69.4
87.5°	19.5	19.5	26.0	28.2	32.5	58.5	97.5	78.0	58.5	45.5	43.3
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)