

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: P472152

Luminaire Tested: **CCP-VA-6-730-U-T4W**

Issue Date: 01/27/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P472152  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 01/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-VA-6-730-U-T4W  
Description: INVUE CLEARCURVE POLE MOUNT Wave Stream LUMINAIRE WITH T4W  
DISTRIBUTION LENS  
Light Source: 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

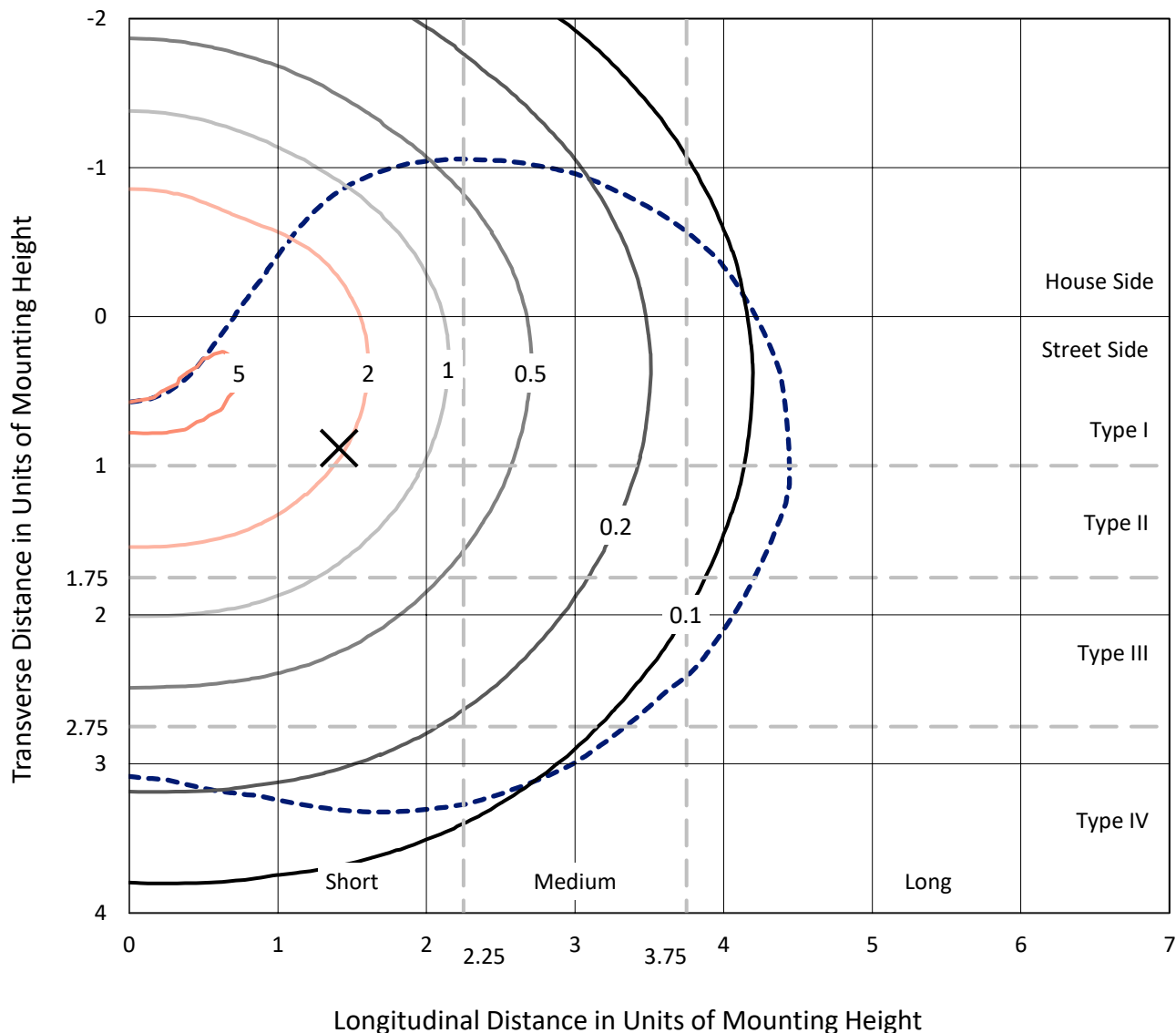
Lumens per Lamp: N/A  
Luminaire Lumens: 9783.8 lumens  
Efficiency: N/A  
Efficacy: 96.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 101.1  
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

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### Iso-Footcandle Lines of Horizontal Illumination

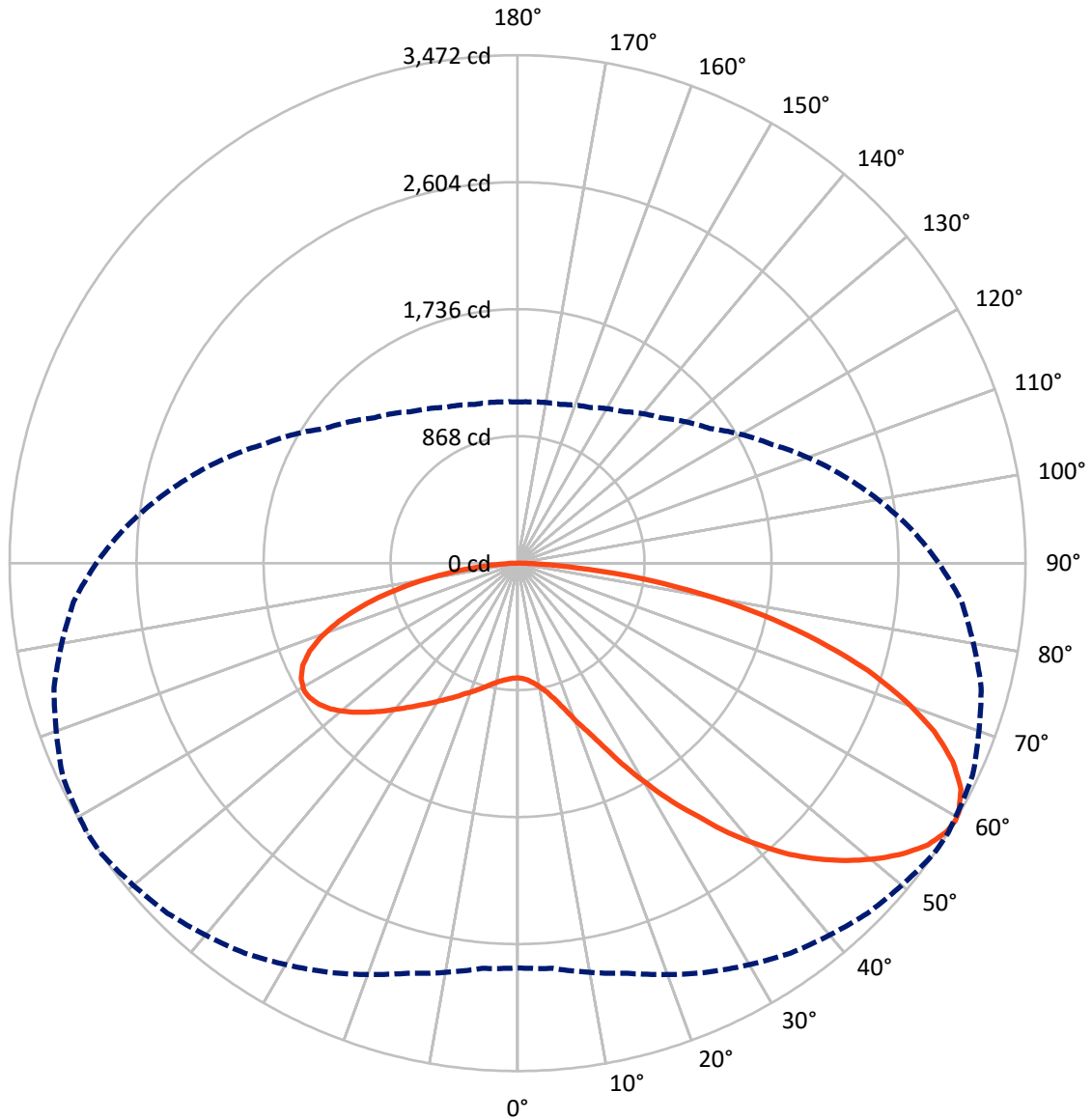
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 59-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3489.3	0.0	3489.3
	% Fixture	35.7	0.0	35.7
<b>Street Side</b>	Lumens	6294.5	0.0	6294.5
	% Fixture	64.3	0.0	64.3
<b>Total</b>	Lumens	9783.8	0.0	9783.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.8	0.8
10°-20°	265.4	2.7
20°-30°	560.1	5.7
30°-40°	1030.9	10.5
40°-50°	1606.8	16.4
50°-60°	2111.4	21.6
60°-70°	2212.4	22.6
70°-80°	1533.9	15.7
80°-90°	385.2	3.9
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°	9783.8	100.0
0°-180°	9783.8	100.0



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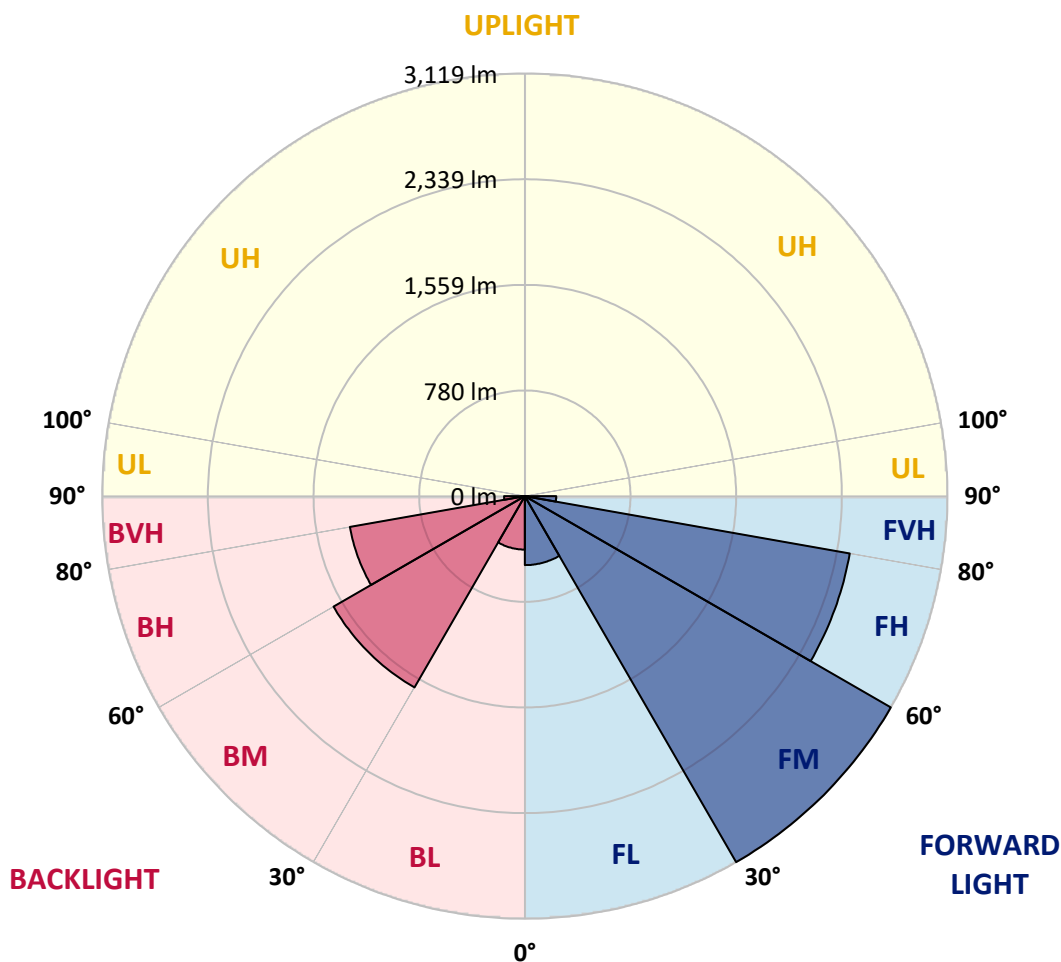
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	509.0	5.2			
FM	(30°-60°)	3118.9	31.9			
FH	(60°-80°)	2435.2	24.9			G2/5000
FVH	(80°-90°)	231.5	2.4			G3/500
BL	(0°-30°)	394.4	4.0	B1/500		
BM	(30°-60°)	1630.1	16.7	B2/2500		
BH	(60°-80°)	1311.0	13.4	B3/2500		G3/2500
BVH	(80°-90°)	153.7	1.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	784.3	784.3	784.3	784.3	784.3	784.3	784.3	784.3	784.3	784.3	784.3
2.5°	795.3	795.3	795.3	793.1	793.1	793.1	790.9	790.9	790.9	788.7	786.5
5°	813.0	813.0	810.8	813.0	810.8	808.6	806.4	806.4	806.4	804.2	802.0
7.5°	837.2	839.4	837.2	839.4	837.2	835.0	830.6	830.6	828.4	824.0	819.6
10°	874.7	874.7	874.7	872.5	870.2	868.0	865.8	863.6	861.4	854.8	848.2
12.5°	920.9	920.9	920.9	916.5	916.5	912.1	909.9	907.7	903.3	894.5	885.7
15°	978.2	976.0	982.6	982.6	980.4	980.4	973.8	969.4	965.0	951.8	931.9
17.5°	1055.3	1053.1	1059.7	1064.1	1064.1	1066.3	1055.3	1050.9	1035.5	1017.9	991.4
20°	1158.9	1154.5	1161.1	1165.5	1161.1	1165.5	1154.5	1156.7	1134.6	1103.8	1061.9
22.5°	1271.2	1271.2	1277.8	1277.8	1280.0	1284.4	1271.2	1264.6	1247.0	1202.9	1150.0
25°	1410.0	1421.0	1421.0	1421.0	1429.9	1432.1	1418.8	1407.8	1383.6	1324.1	1251.4
27.5°	1579.7	1577.5	1575.3	1588.5	1588.5	1592.9	1584.1	1579.7	1551.0	1478.3	1368.2
30°	1760.3	1747.1	1755.9	1760.3	1769.1	1775.7	1766.9	1753.7	1718.5	1639.2	1502.6
32.5°	1925.6	1934.4	1947.6	1952.0	1965.2	1967.4	1945.4	1945.4	1910.1	1808.8	1667.8
35°	2112.8	2112.8	2148.1	2163.5	2163.5	2176.7	2143.7	2126.0	2101.8	1996.1	1817.6
37.5°	2275.9	2280.3	2308.9	2344.2	2348.6	2368.4	2344.2	2337.6	2293.5	2185.5	1987.3
40°	2427.9	2432.3	2467.5	2509.4	2533.6	2564.5	2540.2	2529.2	2483.0	2359.6	2156.9
42.5°	2546.9	2555.7	2599.7	2661.4	2701.1	2738.5	2727.5	2720.9	2657.0	2527.0	2313.3
45°	2637.2	2652.6	2714.3	2787.0	2842.1	2897.2	2899.4	2886.1	2826.7	2681.2	2465.3
47.5°	2709.9	2727.5	2795.8	2888.3	2972.1	3040.4	3053.6	3038.2	2983.1	2831.1	2601.9
50°	2769.4	2778.2	2855.3	2974.3	3077.8	3163.7	3190.2	3177.0	3128.5	2956.6	2720.9
52.5°	2800.2	2813.4	2901.6	3038.2	3163.7	3267.3	3306.9	3300.3	3243.1	3071.2	2826.7
55°	2815.6	2828.9	2932.4	3088.8	3229.8	3351.0	3399.5	3401.7	3346.6	3174.8	2925.8
57.5°	2798.0	2815.6	2928.0	3102.0	3258.5	3388.5	3463.4	3461.2	3417.1	3254.1	3009.5
59°	2767.2	2780.4	2901.6	3084.4	3254.1	3384.1	3470.0	3472.2	3432.5	3280.5	3047.0
60°	2731.9	2747.3	2870.7	3062.4	3236.4	3368.6	3459.0	3463.4	3430.3	3287.1	3062.4
62.5°	2610.7	2630.6	2767.2	2972.1	3161.5	3287.1	3395.1	3401.7	3384.1	3269.5	3073.4
65°	2441.1	2458.7	2606.3	2824.5	3022.7	3152.7	3254.1	3269.5	3267.3	3190.2	3029.3
67.5°	2234.0	2236.2	2375.0	2612.9	2820.0	2947.8	3044.8	3071.2	3091.0	3040.4	2899.4
70°	1985.0	1982.8	2117.2	2353.0	2560.1	2694.5	2791.4	2809.0	2859.7	2820.0	2705.5
72.5°	1676.6	1703.0	1828.6	2026.9	2231.8	2381.6	2467.5	2500.6	2529.2	2538.0	2443.3
75°	1385.8	1414.4	1513.6	1698.6	1874.9	2013.7	2106.2	2121.6	2174.5	2187.7	2099.6
77.5°	1108.2	1110.4	1183.1	1330.7	1491.5	1606.1	1681.0	1720.7	1749.3	1775.7	1683.2
80°	777.7	788.7	839.4	945.2	1070.7	1191.9	1253.6	1280.0	1299.9	1317.5	1286.6
82.5°	486.9	491.3	524.4	588.2	674.2	742.5	806.4	828.4	832.8	872.5	868.0
85°	231.3	233.5	255.6	286.4	323.9	378.9	403.2	403.2	434.0	462.7	462.7
87.5°	30.8	30.8	37.5	41.9	52.9	68.3	94.7	96.9	114.6	127.8	138.8
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°	784.3	784.3	784.3	784.3	784.3	784.3	784.3	784.3	784.3	784.3	784.3
2.5°	786.5	786.5	786.5	786.5	786.5	784.3	786.5	786.5	786.5	786.5	786.5
5°	802.0	799.7	797.5	795.3	795.3	793.1	793.1	793.1	793.1	793.1	793.1
7.5°	817.4	815.2	813.0	808.6	806.4	804.2	804.2	802.0	802.0	802.0	802.0
10°	843.8	841.6	832.8	826.2	821.8	819.6	817.4	815.2	813.0	813.0	813.0
12.5°	879.1	874.7	859.2	850.4	843.8	839.4	835.0	832.8	830.6	828.4	828.4
15°	923.1	912.1	892.3	879.1	870.2	863.6	857.0	852.6	850.4	848.2	848.2
17.5°	976.0	962.8	936.3	912.1	896.7	885.7	876.9	870.2	868.0	868.0	868.0
20°	1042.1	1020.1	982.6	949.6	925.3	909.9	896.7	890.1	887.9	885.7	883.5
22.5°	1119.2	1090.6	1035.5	984.8	954.0	931.9	916.5	907.7	901.1	898.9	898.9
25°	1207.3	1165.5	1092.8	1031.1	989.2	958.4	938.5	927.5	916.5	912.1	912.1
27.5°	1313.1	1258.0	1161.1	1079.5	1022.3	984.8	962.8	947.4	936.3	927.5	923.1
30°	1427.6	1366.0	1236.0	1132.4	1059.7	1017.9	991.4	973.8	958.4	943.0	940.7
32.5°	1573.1	1484.9	1326.3	1191.9	1103.8	1050.9	1020.1	998.0	978.2	962.8	958.4
35°	1720.7	1614.9	1421.0	1253.6	1145.6	1081.8	1044.3	1020.1	1000.2	982.6	980.4
37.5°	1872.7	1760.3	1524.6	1326.3	1194.1	1117.0	1070.7	1044.3	1020.1	1002.4	1000.2
40°	2031.3	1899.1	1630.3	1401.2	1244.8	1152.3	1099.4	1066.3	1039.9	1024.5	1022.3
42.5°	2181.1	2037.9	1744.9	1489.3	1304.3	1189.7	1128.0	1092.8	1059.7	1044.3	1042.1
45°	2324.3	2170.1	1859.5	1570.9	1363.8	1229.4	1156.7	1114.8	1079.5	1064.1	1061.9
47.5°	2454.3	2300.1	1965.2	1659.0	1425.4	1273.4	1187.5	1136.8	1097.2	1081.8	1081.8
50°	2571.1	2410.3	2068.8	1740.5	1482.7	1317.5	1213.9	1156.7	1117.0	1101.6	1099.4
52.5°	2681.2	2507.2	2159.1	1811.0	1537.8	1357.1	1240.4	1172.1	1130.2	1112.6	1110.4
55°	2769.4	2595.3	2234.0	1868.3	1575.3	1383.6	1258.0	1180.9	1134.6	1119.2	1117.0
57.5°	2846.5	2668.0	2286.9	1907.9	1599.5	1399.0	1266.8	1180.9	1132.4	1114.8	1112.6
59°	2879.5	2698.9	2304.5	1919.0	1603.9	1401.2	1264.6	1174.3	1123.6	1106.0	1101.6
60°	2897.2	2712.1	2311.1	1921.2	1601.7	1396.8	1262.4	1167.7	1114.8	1095.0	1095.0
62.5°	2914.8	2723.1	2302.3	1903.5	1577.5	1372.6	1240.4	1141.2	1081.8	1059.7	1059.7
65°	2877.3	2683.4	2251.6	1855.1	1529.0	1330.7	1198.5	1097.2	1031.1	1009.0	1009.0
67.5°	2767.2	2586.5	2159.1	1764.7	1449.7	1258.0	1130.2	1026.7	965.0	940.7	934.1
70°	2579.9	2427.9	2013.7	1634.7	1341.7	1165.5	1044.3	945.2	881.3	857.0	848.2
72.5°	2328.7	2178.9	1819.8	1476.1	1198.5	1044.3	938.5	843.8	773.3	749.1	751.3
75°	1982.8	1877.1	1568.6	1275.6	1033.3	890.1	802.0	722.6	663.2	643.3	645.5
77.5°	1608.3	1520.2	1271.2	1039.9	843.8	733.7	658.7	594.9	555.2	544.2	537.6
80°	1231.6	1145.6	954.0	775.5	641.1	564.0	513.3	469.3	438.4	423.0	427.4
82.5°	826.2	773.3	632.3	513.3	436.2	381.1	363.5	334.9	323.9	315.1	321.7
85°	445.0	398.8	330.5	275.4	240.1	224.7	229.1	226.9	218.1	215.9	222.5
87.5°	145.4	125.6	96.9	81.5	83.7	74.9	74.9	70.5	63.9	61.7	66.1
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)